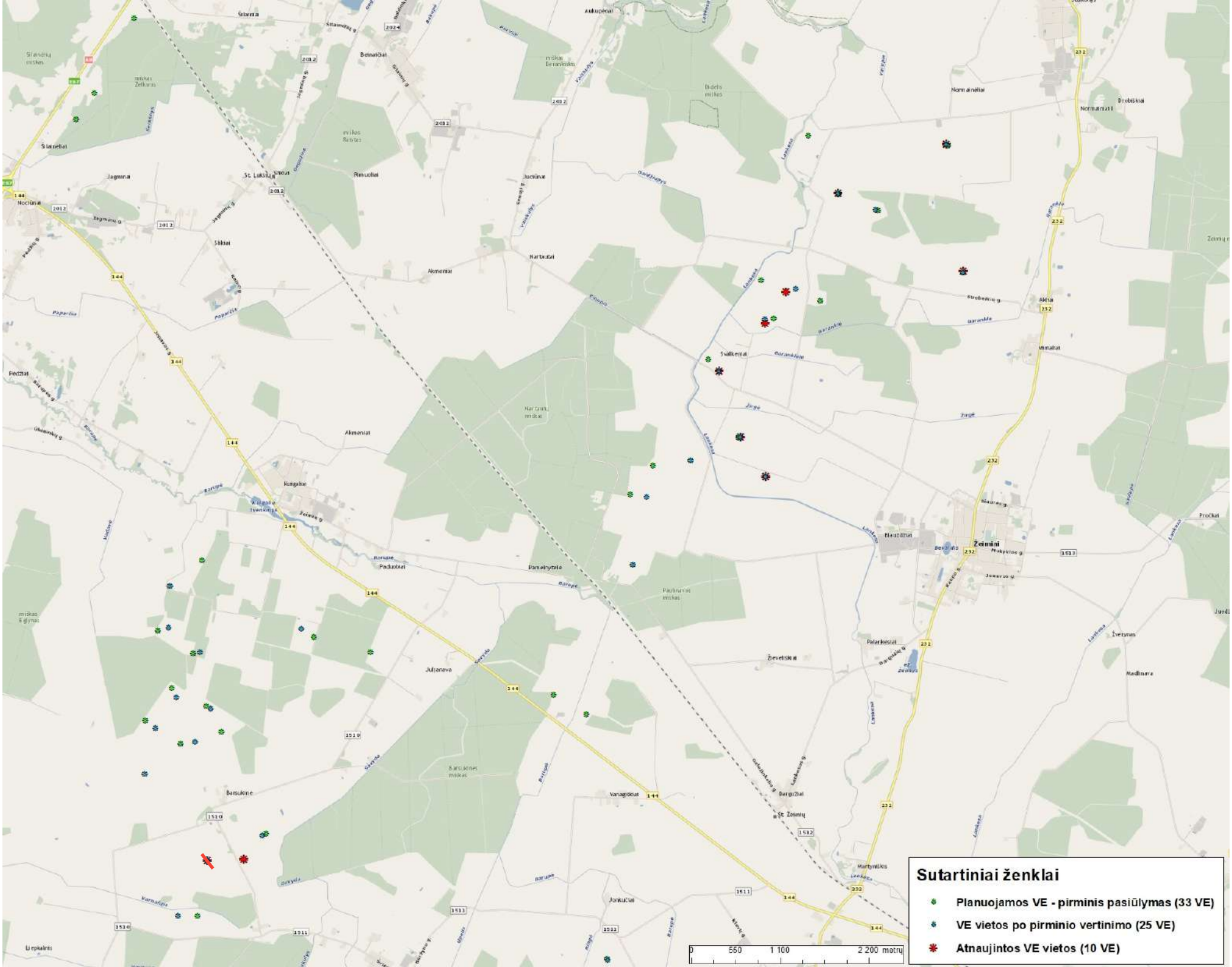
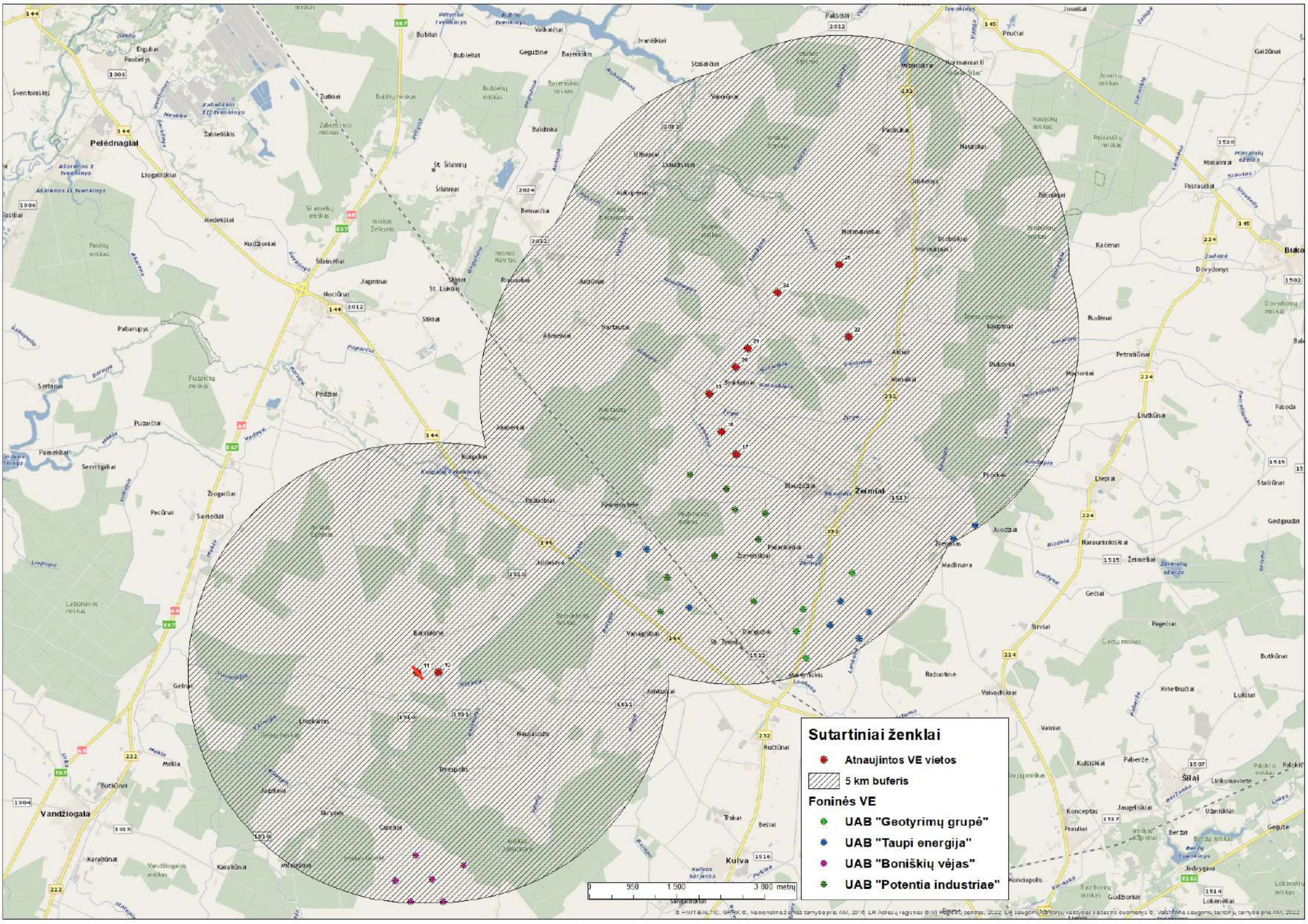
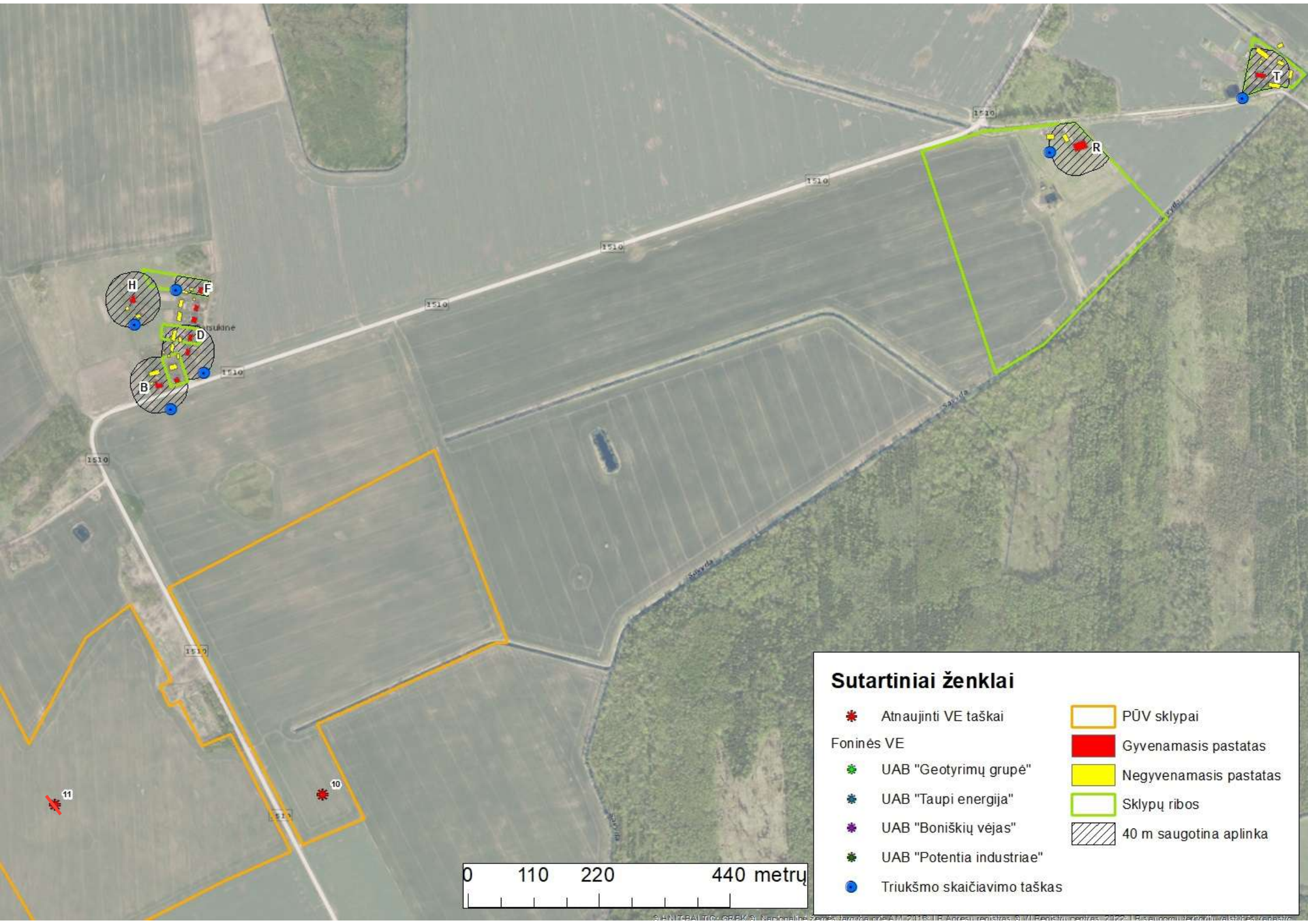
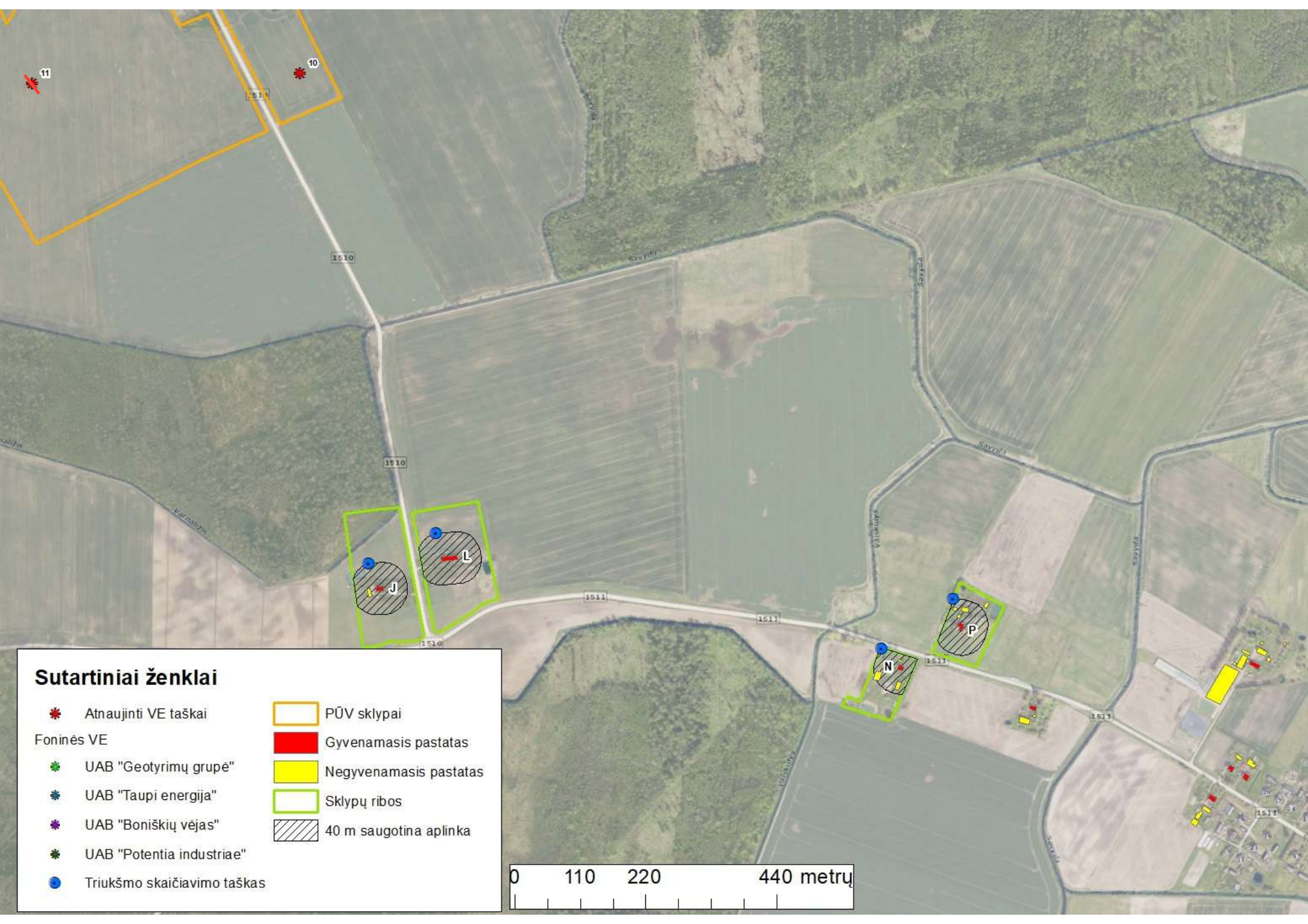
1 PRIEDAS. GRAFINĖ INFORMACIJA

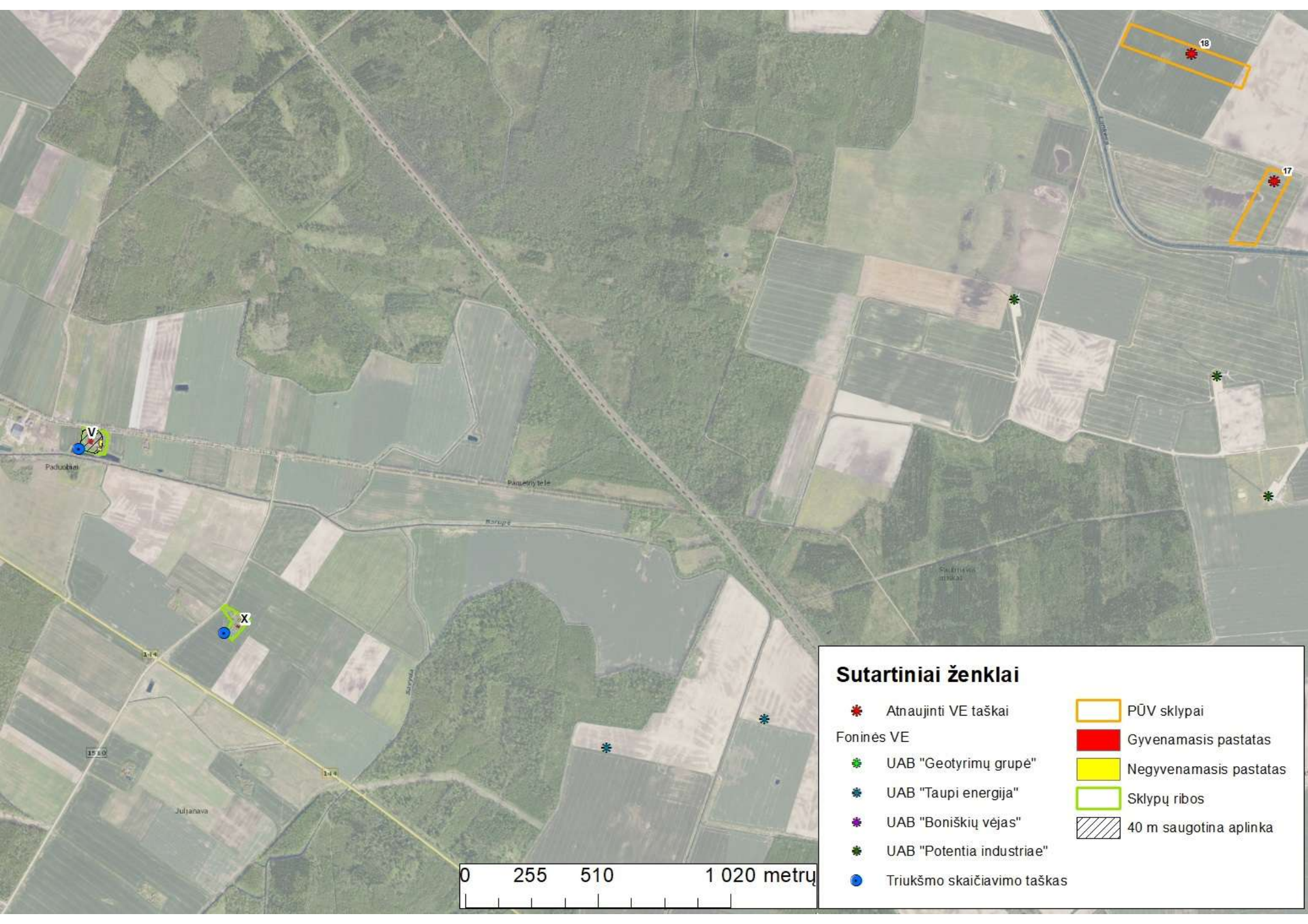
1.1 Priedėlis. Bendra situacija

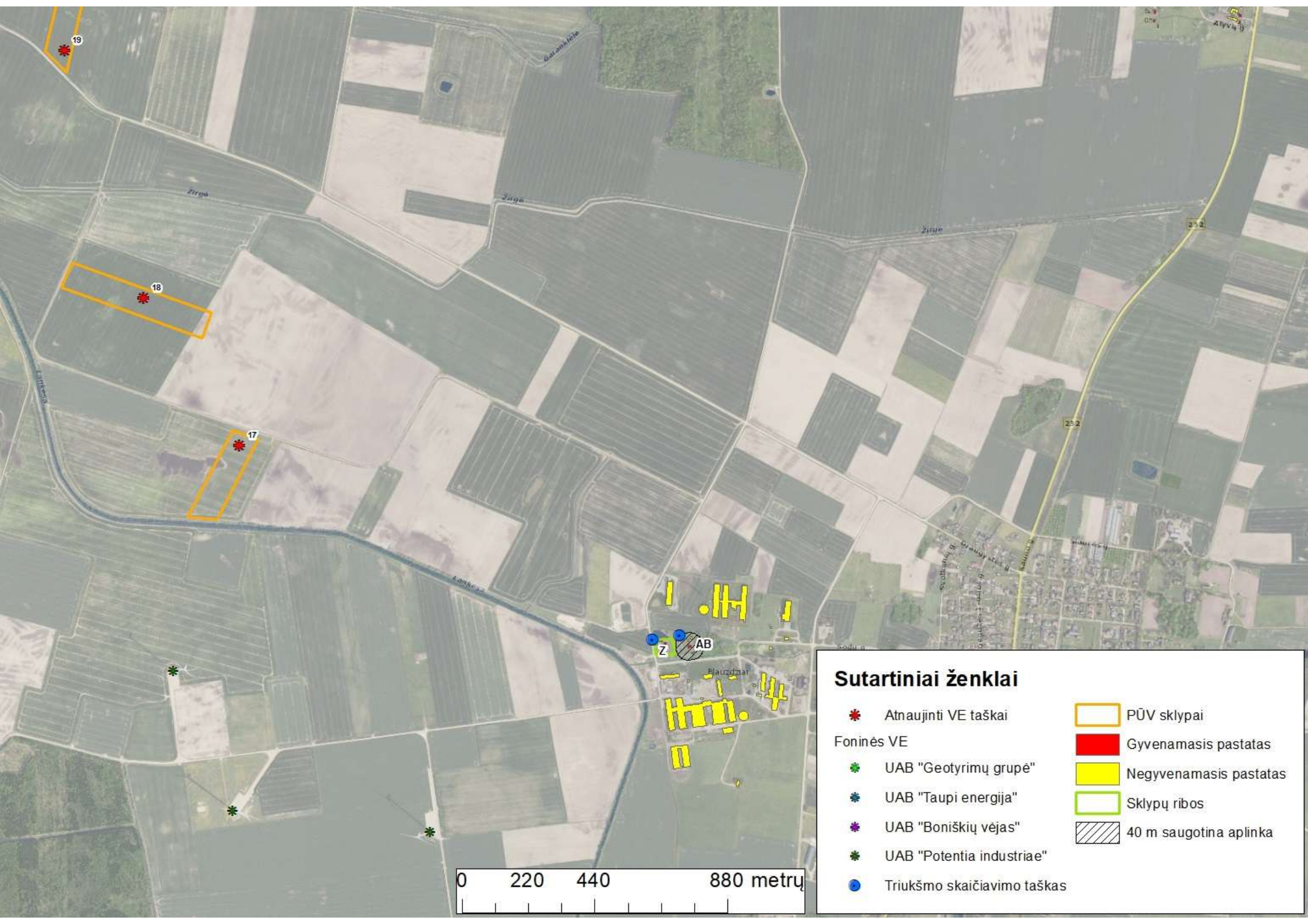

Sutartiniai ženklai
Planuojamos VE - pirminis pasiūlymas (33 VE)
VE vietos po pirminio vertinimo (25 VE)
Atnaujintos VE vietos (10 VE)
0
550
1 100
2 200 metrų
Žeimiai
Barsukine
Jurkučiai
Akmeniai
Juljanava
Pakalniai
Žievelškiai
Vanagiškiai
Pavilnynai
Kingaliai
Pakalnytė
Bergužiai
Šv. Žeimių
Marčyniškis
Normaniai
Drobiškiai
Šlavėnai
Jagmina
Šlavėnėliai
Pedžiai
Šventupys
Barupė
Lankesa
Jurgė
Gaurankis
Žeimių m.
Juodšilių m.
Barsukinės miškas
Paulinavos miškas
Bidelis miškas
Šlavėnų miškas
Žeimių miškas
Narguvų miškas

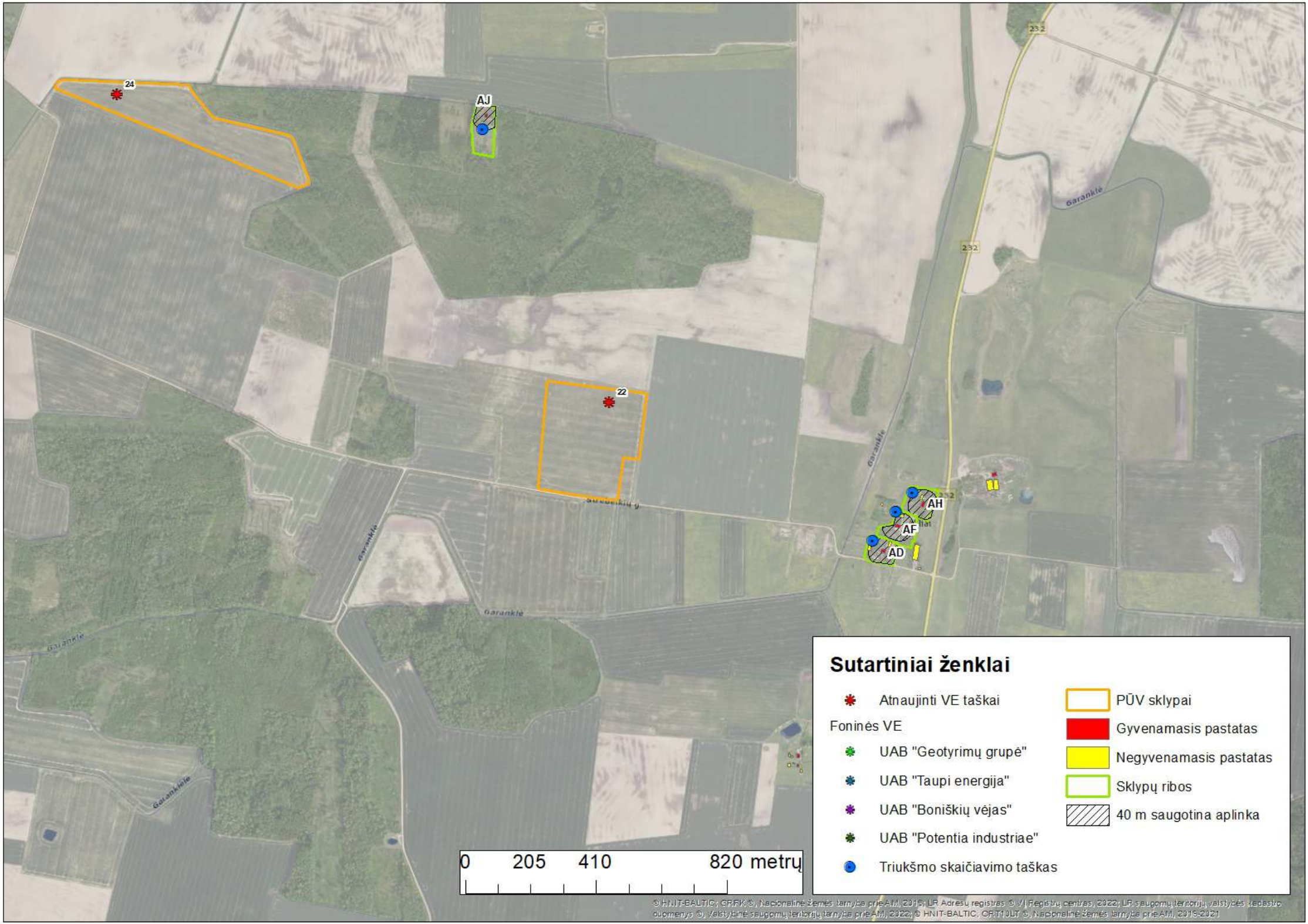

Sutartiniai ženklai
Atnaujintos VE vietos
5 km buferis
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
0 950 1 900 3 800 metrų
Pelėdnagiai
Vandžiogala
Šilai
Žeimiai
Kulva
Kupiškis
Barsukiškis
Josvainiai
Pakalniškiai
Naujamiestis
Ramygala
Pajuostis
Krekenava
Panevėžys
Pasvalys
Biržai
Joniškis
Šiauliai
Radviliškis
Kėdainiai
Jonava
Kaunas
Prienai
Alytus
Marijampolė
Vilkaviškis
Šakiai
Jurbarkas
Raseiniai
Kelmė
Tauragė
Šilutė
Klaipėda
Plungė
Telšiai
Mažeikiai
Akmenė
Skuodas
Kretinga
Palanga
Gargždai
Šilalė
Tauragė
Rietavas
Mažeikiai
Telšiai
Plungė
Klaipėda
Šilutė
Neringa
Nida
Smiltynė
Juodkrantė
Pervalka
Kuršių nerija
Kuršių marios
Nemunas
Dubysa
Šešupė
Jūra
Baltijos jūra
Kuršių marios
Kuršių nerija
Nemuno delta
Rusnė
Šilutė
Pagėgiai
Tauragė
Jurbarkas
Raseiniai
Kelmė
Šiauliai
Radviliškis
Kėdainiai
Jonava
Kaunas
Prienai
Alytus
Marijampolė
Vilkaviškis
Šakiai
Kretinga
Palanga
Gargždai
Šilal

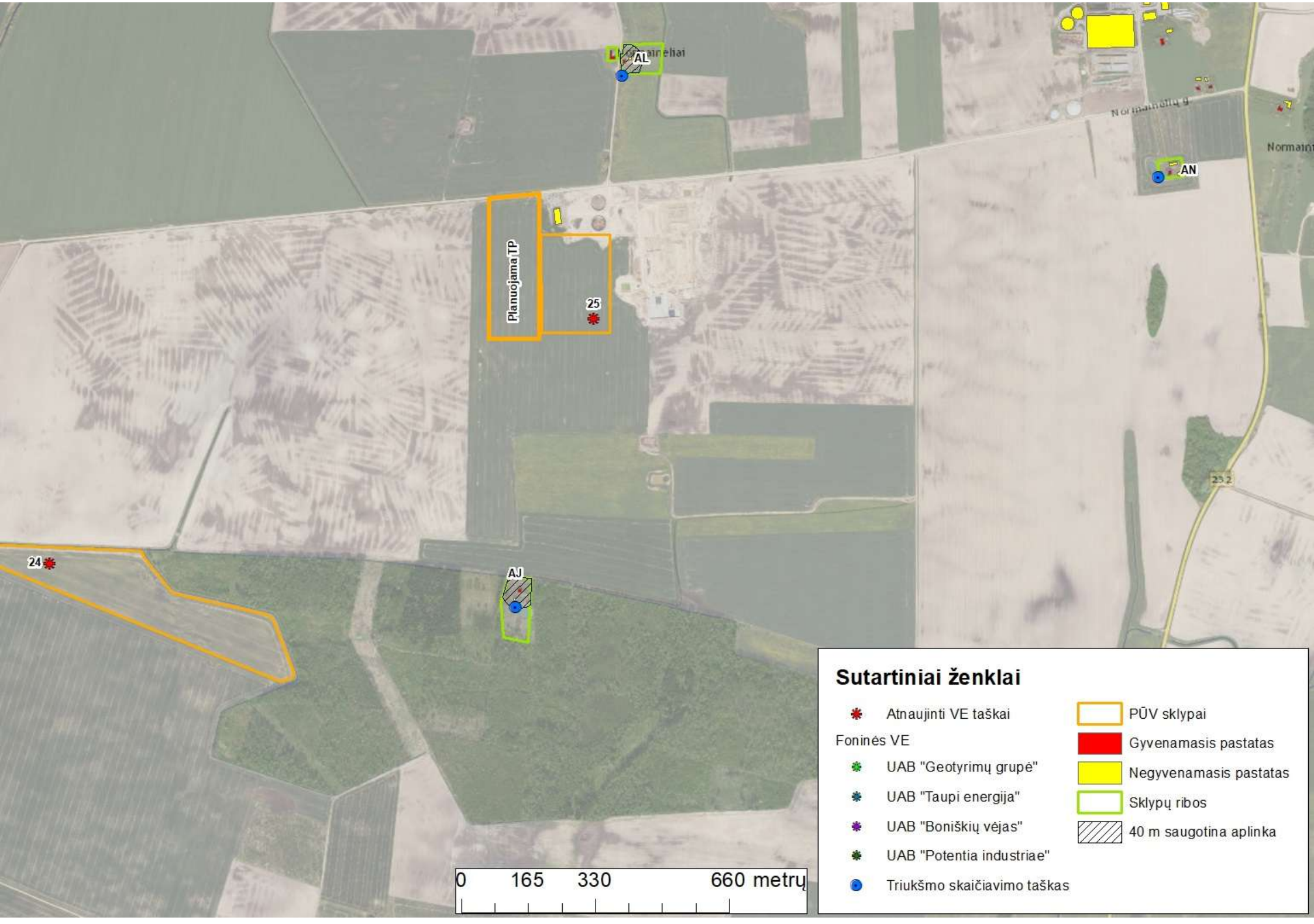

H
F
D
B
R
T
1510
11
10
0 110 220 440 metrų
Sutartiniai ženklai
Atnaujinti VE taškai
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Triukšmo skaičiavimo taškas
PŪV sklypai
Gyvenamasis pastatas
Negyvenamasis pastatas
Sklypų ribos
40 m saugotina aplinka

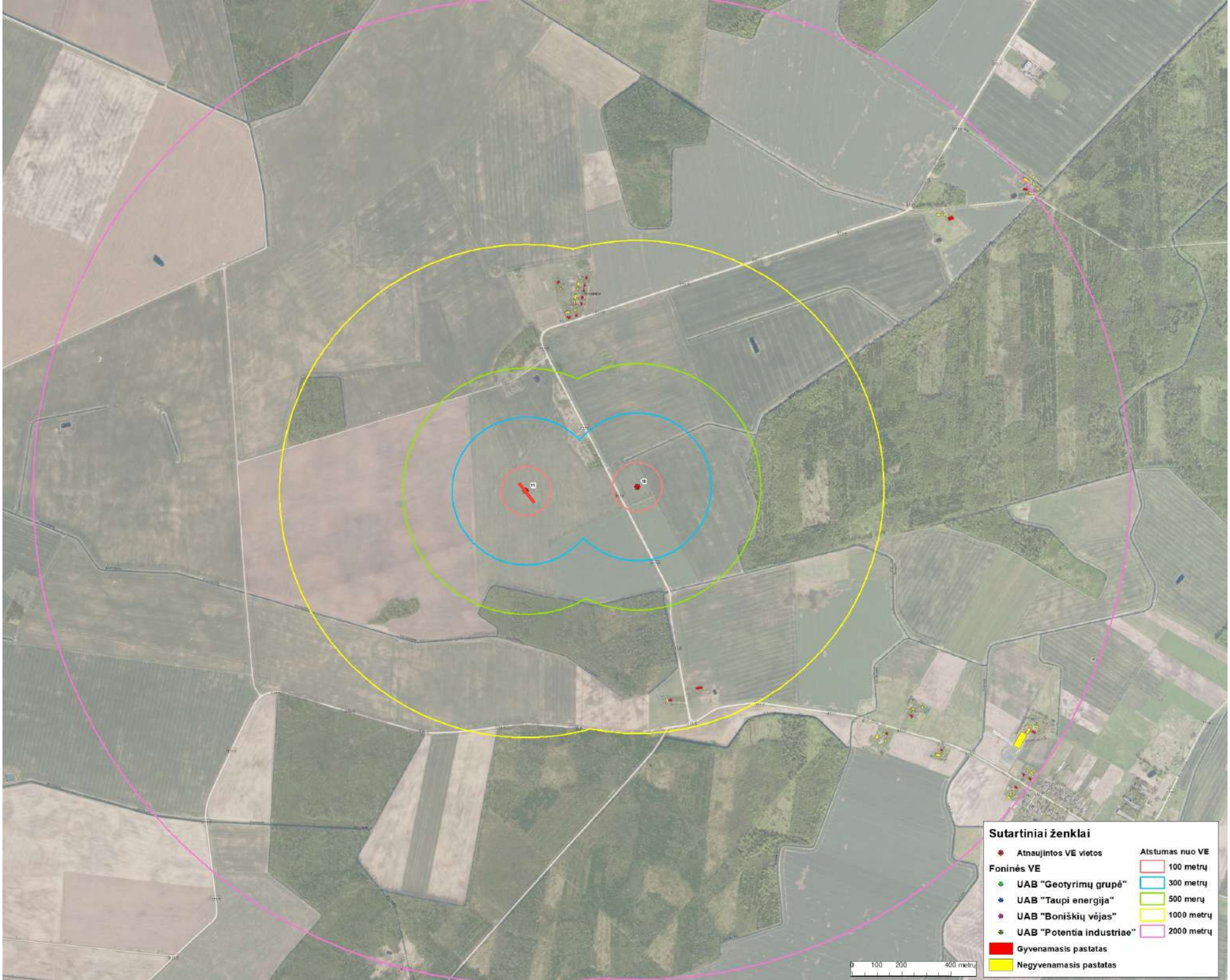

11
10
1510
1511
J
L
P
N
Sutartiniai ženklai
Atnaujinti VE taškai
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Triukšmo skaičiavimo taškas
PŪV sklypai
Gyvenamasis pastatas
Negyvenamasis pastatas
Sklypų ribos
40 m saugotina aplinka
0
110
220
440 metrų

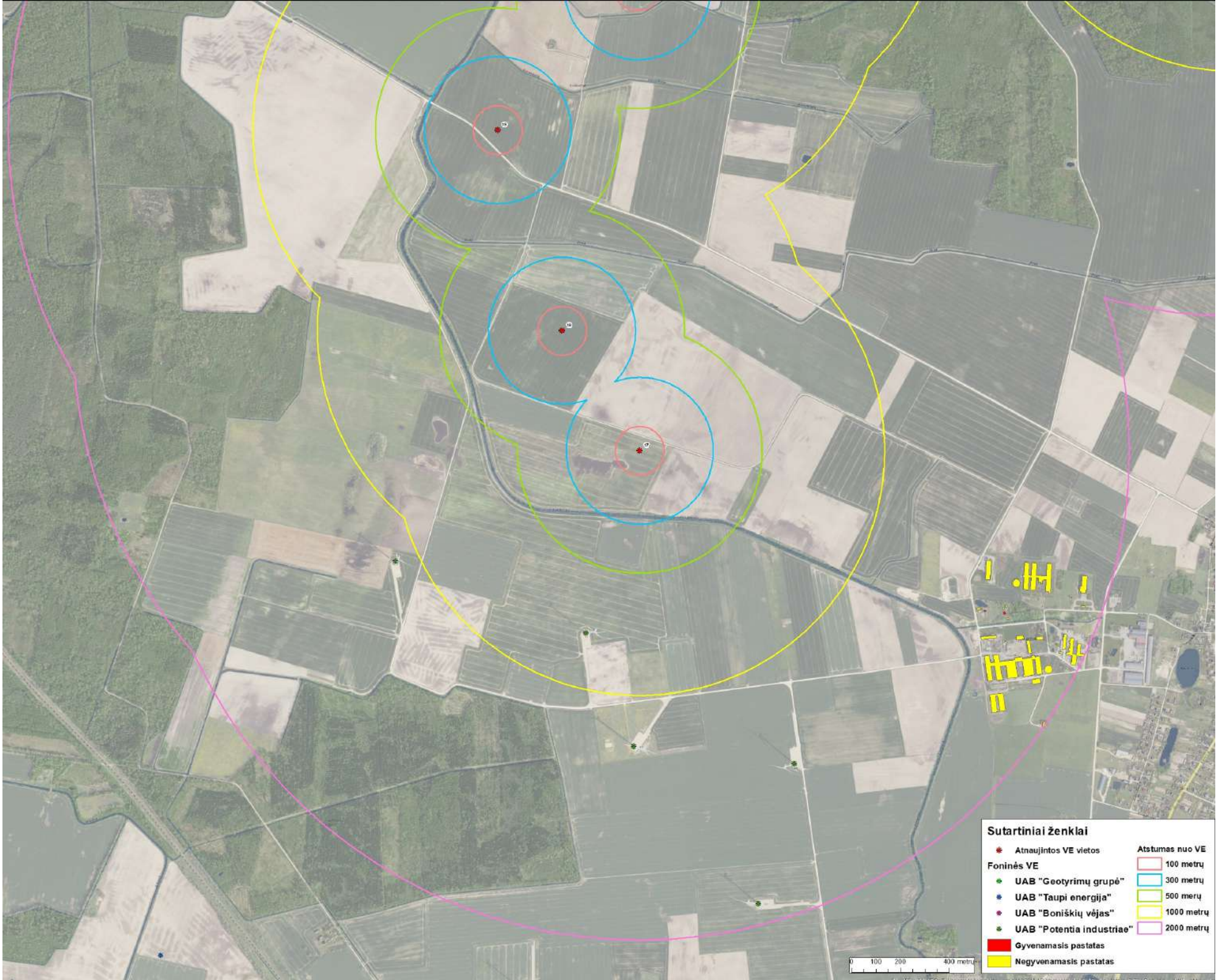

18
17
V
X
Paduobiai
Pamerintėlė
Borupė
Juliana
0 255 510 1 020 metrų
Sutartiniai ženklai
Atnaujinti VE taškai
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Triukšmo skaičiavimo taškas
PŪV sklypai
Gyvenamasis pastatas
Negyvenamasis pastatas
Sklypų ribos
40 m saugotina aplinka


19
18
17
Z
AB
Blauzdžiai
0 220 440 880 metrų
Sutartiniai ženklai
Atnaujinti VE taškai
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Triukšmo skaičiavimo taškas
PŪV sklypai
Gyvenamasis pastatas
Negyvenamasis pastatas
Sklypų ribos
40 m saugotina aplinka

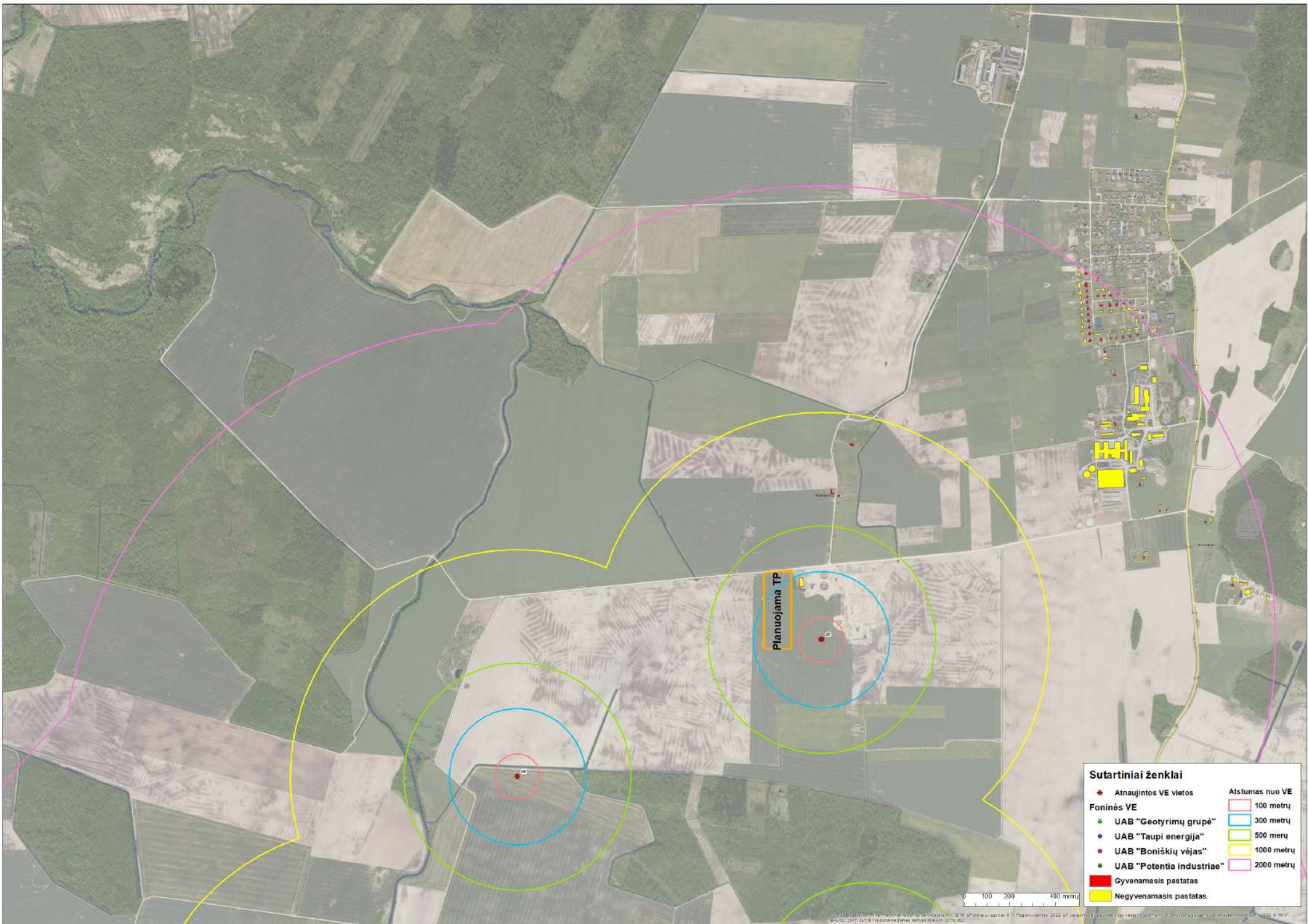

24
22
AJ
AH
AF
AD
232
Garankle
Garankle
Garankle
Garankle
Garankle
Sutartiniai ženklai
Atnaujinti VE taškai
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Triukšmo skaičiavimo taškas
PŪV sklypai
Gyvenamasis pastatas
Negyvenamasis pastatas
Sklypų ribos
40 m saugotina aplinka
0 205 410 820 metrų
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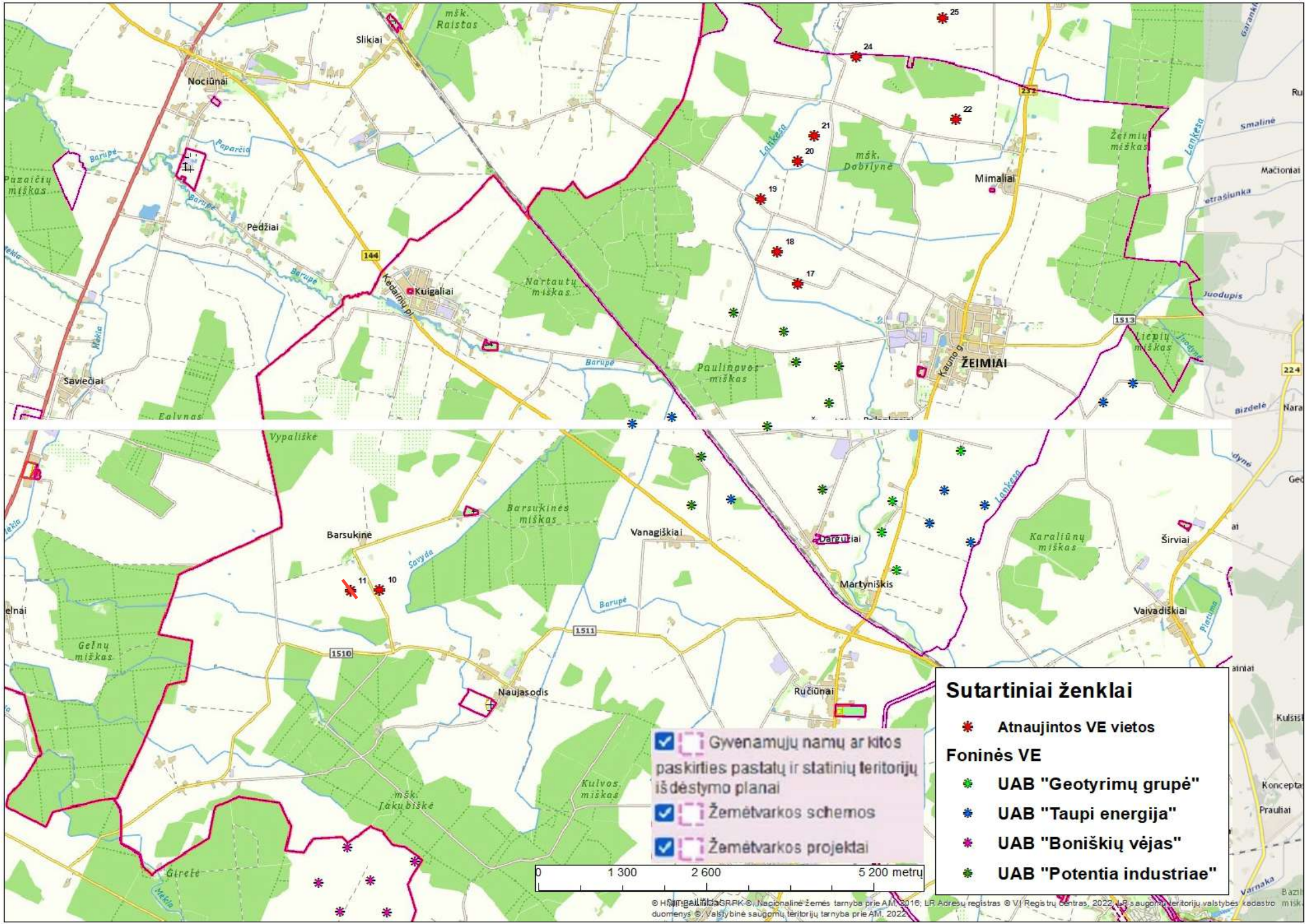

AL
AN
AJ
Planuojama TP
25
24
0
165
330
660 metrų
Sutartiniai ženklai
Atnaujinti VE taškai
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Triukšmo skaičiavimo taškas
PŪV sklypai
Gyvenamasis pastatas
Negyvenamasis pastatas
Sklypų ribos
40 m saugotina aplinka


Sutartiniai ženklai
Atnaujintos VE vietos
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Gyvenamasis pastatas
Negyvenamasis pastatas
Atstumas nuo VE
100 metrų
300 metrų
500 metrų
1000 metrų
2000 metrų
0 100 200 400 metrų


Sutartiniai ženklai
Atnaujintos VE vietos
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Gyvenamasis pastatas
Negyvenamasis pastatas
Atstumas nuo VE
100 metrų
300 metrų
500 merų
1000 metrų
2000 metrų
0 100 200 400 metrų


Sutartiniai ženklai
Atnaujintos VE vietos
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Gyvenamasis pastatas
Negyvenamasis pastatas
Atstumas nuo VE
100 metrų
300 metrų
500 merų
1000 metrų
2000 metrų
0 100 200 400 metrų


Planuojama TP
Sutartiniai ženklai
Atnaujintos VE vietos
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Gyvenamasis pastatas
Negyvenamasis pastatas
Atstumas nuo VE
100 metrų
300 metrų
500 merų
1000 metrų
2000 metrų
0 100 200 400 metrų



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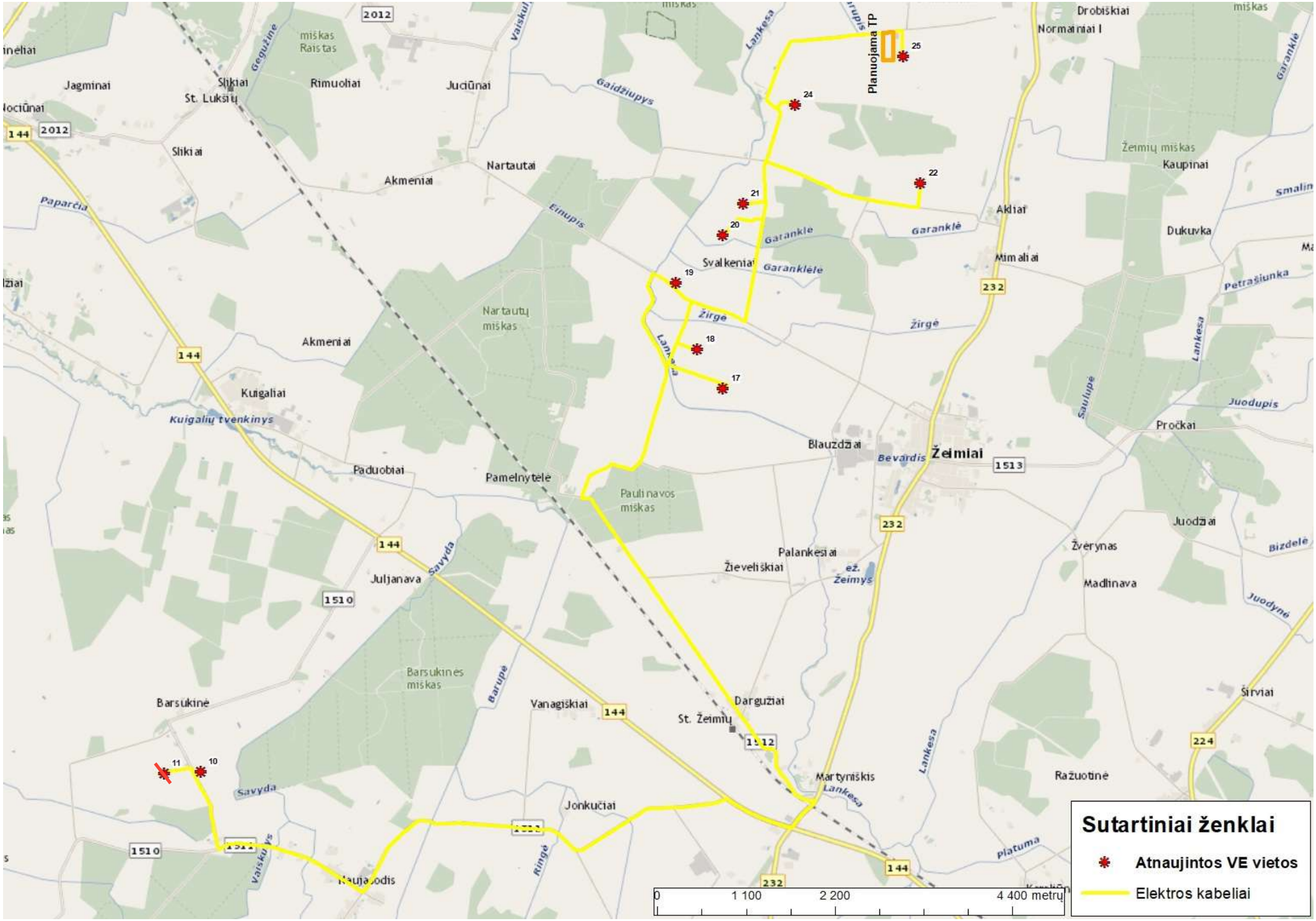
1.2 Priedėlis. Privažiavimo keliai

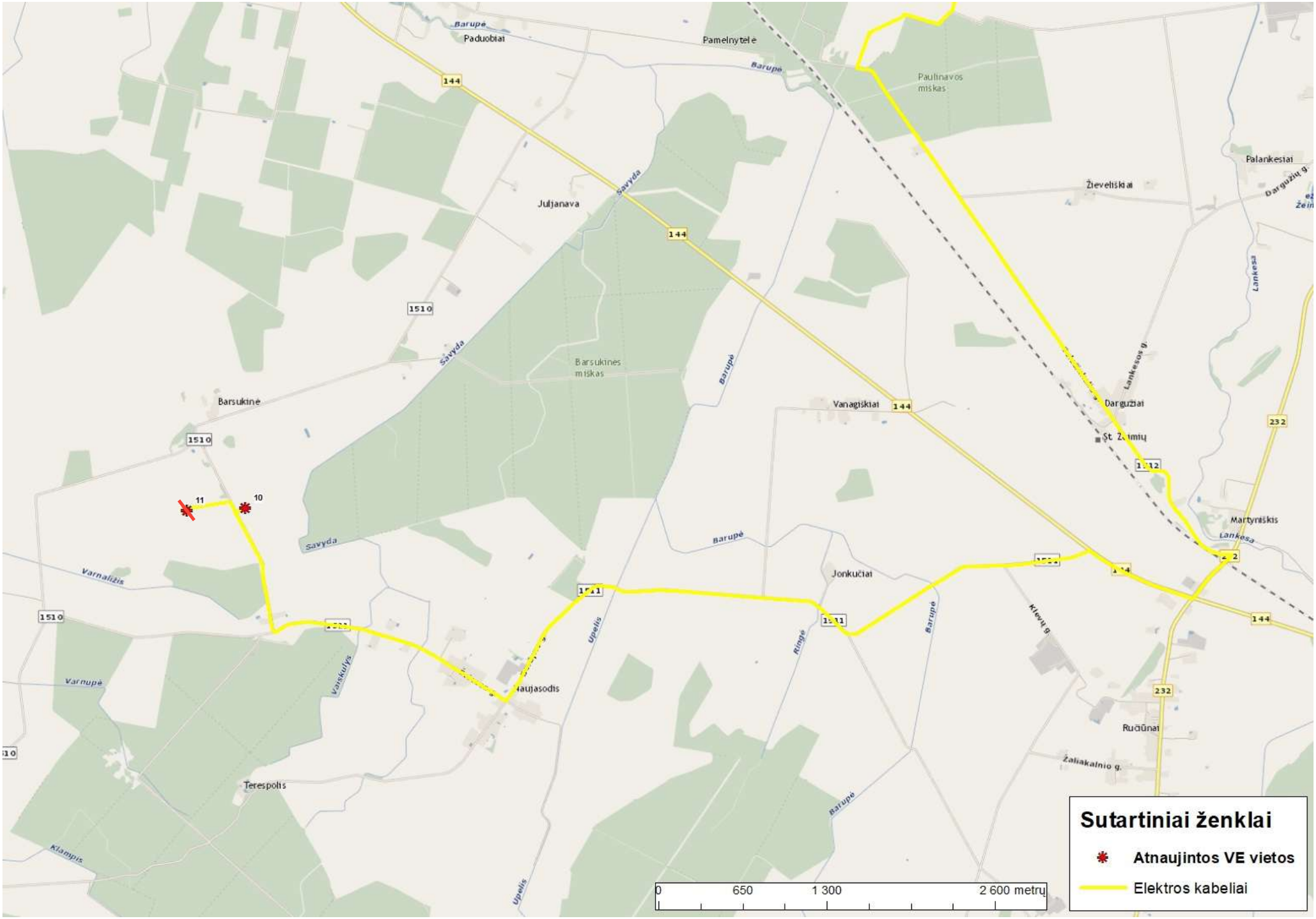

11
10
Sutartiniai ženklai
Atnaujintos VE vietos
Privažiavimo keliai
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
0
225
450
900 metrų

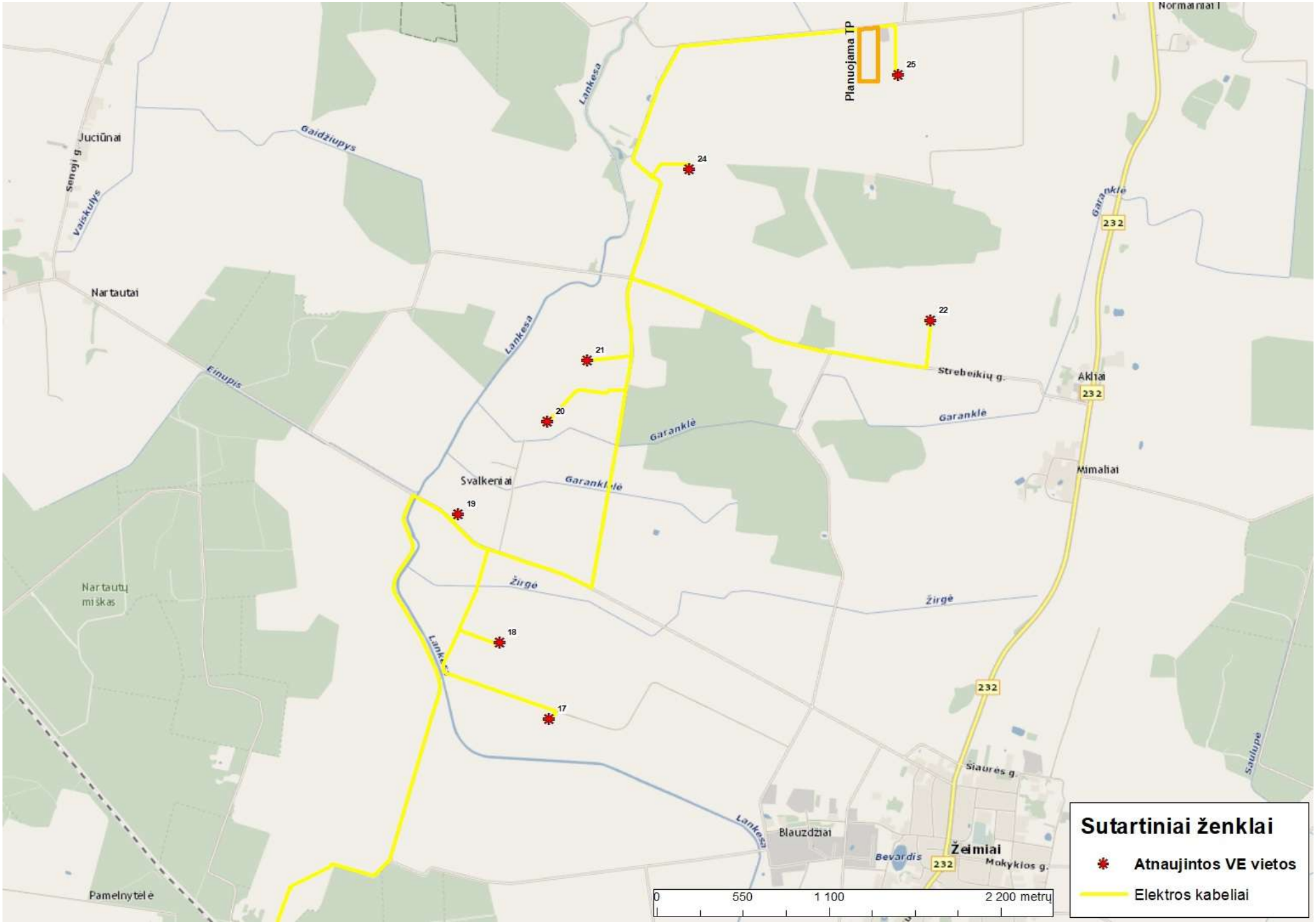

Sutartiniai ženklai
Atnaujintos VE vietos
Privažiavimo keliai
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
0
155
310
620 metrų
Lankesa
Garankla
Švalkeniai
Garankiele
Einupis
Žirgo
Žurgo
Žurge
Garankle
Garanklė
Garanklele
Garanklele
Lankesa
Lankesa
Lankesa
Lankesa
Lankesa
Einupis
Einupis
Einupis


Normainėliai
Lankesa
Garanda
20
21
22
24
25
0
155
310
620 metrų
Sutartiniai ženklai
Atnaujintos VE vietos
Privažiavimo keliai
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"

1.3 Priedėlis. Kabelio prisijungimo trajektorija


Planuojama TP
25
24
22
21
20
19
18
17
Sutartiniai ženklai
Atnaujintos VE vietos
Elektros kabeliai
0
1 100
2 200
4 400 metrų
Žeimiai
Kuigaliai
Akmeniai
Nartautai
Slikiai
Jagminai
St. Luksių
Rimuotai
Juciūnai
Svalkeniai
Akliai
Mimaliai
Dukuvka
Kaupinai
Žeimių miškas
Drobiškiai
Normantiai I
Blauzdžiai
Pamelnytė
Paduobiai
Juljanava
Palankesiai
Žieveliškiai
Žverynas
Madlinava
Juodžiai
Pročkai
Dargužiai
St. Žeimių
Martyniškis
Ražuotinė
Širviai
Vanagiškiai
Barsukinė
Jonkučiai
Naujasodis
Nartautų miškas
Paulinavos miškas
Barsukinės miškas
Kuigalių tvenkinys
Paparčia
Gegužinė
Galdžiupys
Einupis
Garankle
Garanklė
Garanklėlė
Žirgė
Lankesa
Bevardis
Saulupė
Juodupis
Petrašiunka
Bizdelė
Juodynė
Platuma
Ringė
Barupė
Savyda
Vaiškupys
ež. Žeimys
2012
144
1510
1513
1512
232
224


Barupė
Paduobiai
Pamelnytelė
Paulinavos miškas
Palankesiai
Žievelškiai
Juljanava
Savyda
Lankesa
Barsukinės miškas
Barsukinė
Vanagiškiai
Dargužiai
Martyniškis
Jonkučiai
Varnalizis
Varnupė
Vaujasodis
Terespolis
Klampis
Upelis
Ringė
Rudūnai
Žaliakalnio g.
11
10
144
1510
1511
1512
232
Sutartiniai ženklai
Atnaujintos VE vietos
Elektros kabeliai
0
650
1 300
2 600 metrų


Planuojama TP
25
24
22
21
20
19
18
17
Normantai I
Jucūnai
Senoji g.
Vaiškulys
Galdžiupys
Lankesa
Nartautai
Einupis
Garanklė
Strebeikių g.
Aklai
232
Svalkeniai
Mimaliai
Žirgė
Nartautų miškas
Siaurės g.
Saulupė
Blauzdžiai
Bevardis
Žeimiai
Mokyklos g.
Pamelnytelė
0
550
1 100
2 200 metrų
Sutartiniai ženklai
Atnaujintos VE vietos
Elektros kabeliai

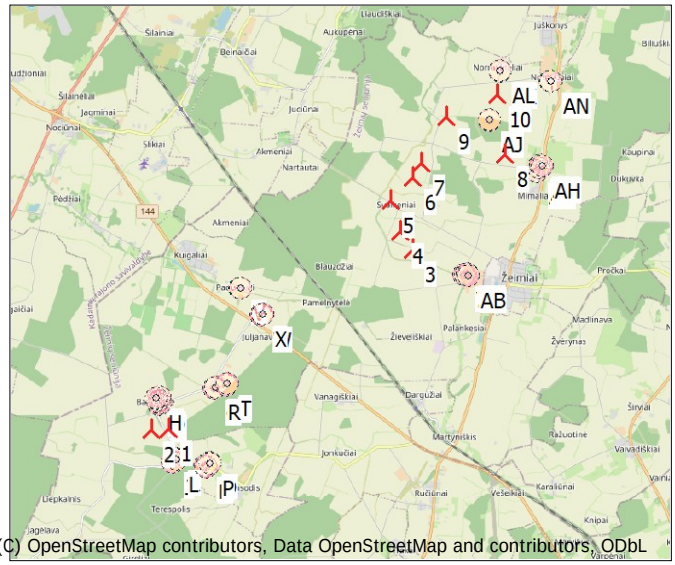
1.4 Priedėlis. Triukšmas

DECIBEL - Main Result

Calculation: Planuojamos VE

Noise calculation model:
ISO 9613-2:2024 General
Wind speed (at 10 m height):
10,0 m/s
Ground attenuation:
General, Ground factor: 0,7
Meteorological coefficient, C0:
Selected option: Fixed value: 0,0 dB
Type of demand in calculation:
1: WTG noise is compared to demand (DK, DE, SE, NL etc.)
Noise values in calculation:
All noise values are mean values (Lwa) (Normal)
Pure tones:
Fixed penalty added to source noise of WTGs with pure tones
Model: 5,0 dB(A)
Height above ground level, when no value in NSA object:
1,5 m; Don't allow override of model height with height from NSA object
Uncertainty margin:
0,0 dB; Uncertainty margin in NSA has priority
Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:
0,0 dB(A)

All coordinates are in
Lithuanian TM LKS94-LKS94 (LT)



Scale 1:200 000

New WTG Noise sensitive area

WTGs

	Y	X	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Noise data Creator	Name	Wind speed	LwA,ref	
			[m]					[kW]	[m]	[m]			[m/s]	[dB(A)]	
1	505 066	6 112 165	60,0	VESTAS V172-7.2 7200 1...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
2	504 615	6 112 148	60,0	VESTAS V172-7.2 7200 1...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
3	511 539	6 116 908	60,0	VESTAS V172-7.2 7200 1...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
4	511 222	6 117 399	60,0	VESTAS V172-7.2 7200 1...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
5	510 959	6 118 219	60,0	VESTAS V172-7.2 7200 1...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
6	511 530	6 118 807	60,0	VESTAS V172-7.2 7200 1...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
7	511 785	6 119 202	60,0	VESTAS V172-7.2 7200 1...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
8	513 980	6 119 458	63,3	VESTAS V172-7.2 7200 1...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
9	512 435	6 120 424	60,0	VESTAS V172-7.2 7200 1...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
10	513 775	6 121 028	60,0	VESTAS V172-7.2 7200 1...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h

h) Generic octave distribution used

Calculation Results

Sound level

Noise sensitive area No.	Name	Y	X	Z	Immission height	Demands Noise	Sound level From WTGs	Distance to noise demand	Demands fulfilled ? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[m]	
A	Sklypas/40 m saugotina aplinka: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)	504 811	6 112 812	60,0	1,5	45,0	38,4	381	Yes
B	Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (2)	504 817	6 112 855	60,0	1,5	45,0	37,8	424	Yes
C	Sklypas/40 m saugotina aplinka: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (3)	504 867	6 112 873	60,0	1,5	45,0	37,6	438	Yes
D	Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (4)	504 839	6 112 938	60,0	1,5	45,0	36,7	506	Yes
E	Sklypas/40 m saugotina aplinka: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (5)	504 820	6 113 012	60,0	1,5	45,0	35,8	580	Yes
F	Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (6)	504 857	6 113 018	60,0	1,5	45,0	35,7	583	Yes
G	Sklypas/40 m saugotina aplinka: Neturi adreso (7)	504 751	6 112 953	60,0	1,5	45,0	36,5	521	Yes
H	Gyvenamasis pastatas: Neturi adreso (8)	504 749	6 113 003	60,0	1,5	45,0	35,9	571	Yes
I	Sklypas/40 m saugotina aplinka: Neturi adreso (9)	505 183	6 111 341	70,0	1,5	45,0	35,6	553	Yes
J	Gyvenamasis pastatas: Neturi adreso (10)	505 193	6 111 302	70,0	1,5	45,0	35,2	593	Yes
K	Sklypas/40 m saugotina aplinka: Neturi adreso (11)	505 295	6 111 391	64,2	1,5	45,0	35,7	534	Yes
L	Gyvenamasis pastatas: Neturi adreso (12)	505 303	6 111 351	63,6	1,5	45,0	35,2	574	Yes
M	Sklypas/40 m saugotina aplinka: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (13)	506 046	6 111 197	60,0	1,5	45,0	29,8	1 113	Yes
N	Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (14)	506 074	6 111 169	60,0	1,5	45,0	29,5	1 153	Yes
O	Sklypas/40 m saugotina aplinka: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (15)	506 167	6 111 280	60,0	1,5	45,0	29,4	1 152	Yes
P	Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (16)	506 175	6 111 241	60,0	1,5	45,0	29,2	1 182	Yes
Q	Sklypas/40 m saugotina aplinka: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (17)	506 288	6 113 243	60,0	1,5	45,0	28,0	1 372	Yes
R	Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (18)	506 325	6 113 257	60,0	1,5	45,0	27,8	1 409	Yes
S	Sklypas/40 m saugotina aplinka: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (19)	506 612	6 113 334	60,0	1,5	45,0	26,2	1 677	Yes
T	Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (20)	506 632	6 113 377	60,0	1,5	45,0	26,0	1 720	Yes
U	Sklypas/40 m saugotina aplinka: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (21)	506 955	6 115 882	60,0	1,5	45,0	21,4	3 904	Yes
V	Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (22)	506 986	6 115 906	60,0	1,5	45,0	21,4	3 940	Yes
W	Sklypas/40 m saugotina aplinka: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (23)	507 511	6 115 174	60,0	1,5	45,0	21,9	3 612	Yes
X	Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (24)	507 555	6 115 201	60,0	1,5	45,0	21,9	3 661	Yes
Y	Sklypas/40 m saugotina aplinka: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (25)	512 910	6 116 267	63,4	1,5	45,0	29,9	1 257	Yes
Z	Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (26)	512 944	6 116 258	64,3	1,5	45,0	29,7	1 291	Yes

To be continued on next page...

DECIBEL - Main Result

Calculation: Planuojamos VE

...continued from previous page

Noise sensitive area

No.	Name	Y	X	Z	Immission height	Demands Noise	Sound level From WTGs	Distance to noise demand	Demands fulfilled ? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[m]	
AA	Sklypas/40 m saugotina aplinka: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (27)	512 998	6 116 279	66,3	1,5	45,0	29,5	1 330	Yes
AB	Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (28)	513 024	6 116 250	66,7	1,5	45,0	29,3	1 366	Yes
AC	Sklypas/40 m saugotina aplinka: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (29)	514 808	6 119 024	70,0	1,5	45,0	33,2	684	Yes
AD	Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (30)	514 833	6 118 996	70,0	1,5	45,0	32,9	719	Yes
AE	Sklypas/40 m saugotina aplinka: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (31)	514 882	6 119 114	70,0	1,5	45,0	32,9	716	Yes
AF	Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (32)	514 878	6 119 076	70,0	1,5	45,0	32,8	725	Yes
AG	Sklypas/40 m saugotina aplinka: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (33)	514 932	6 119 175	70,0	1,5	45,0	32,7	746	Yes
AH	Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (34)	514 963	6 119 150	70,0	1,5	45,0	32,3	783	Yes
AI	Sklypas/40 m saugotina aplinka: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (35)	513 583	6 120 316	70,0	1,5	45,0	37,7	485	Yes
AJ	Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (36)	513 588	6 120 356	69,7	1,5	45,0	37,9	445	Yes
AK	Sklypas/40 m saugotina aplinka: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (37)	513 847	6 121 627	60,0	1,5	45,0	37,3	354	Yes
AL	Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (38)	513 846	6 121 657	60,0	1,5	45,0	36,9	383	Yes
AM	Sklypas/40 m saugotina aplinka: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (39)	515 168	6 121 376	70,0	1,5	45,0	29,3	1 183	Yes
AN	Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (40)	515 192	6 121 383	70,0	1,5	45,0	29,1	1 208	Yes

Distances (m)

	WTG									
NSA	1	2	3	4	5	6	7	8	9	10
A	696	692	7878	7885	8189	9007	9461	11327	10776	12162
B	734	735	7851	7855	8156	8974	9427	11297	10741	12129
C	736	768	7799	7804	8107	8924	9378	11245	10693	12080
D	806	821	7789	7789	8085	8902	9355	11230	10667	12056
E	882	888	7768	7762	8052	8868	9320	11203	10629	12021
F	878	903	7733	7729	8019	8836	9288	11169	10598	11990
G	849	817	7858	7853	8142	8959	9411	11293	10719	12112
H	896	866	7834	7826	8112	8928	9379	11266	10686	12080
I	832	987	8451	8556	8983	9801	10268	11972	11625	12951
J	872	1025	8469	8576	9007	9825	10291	11991	11650	12974
K	807	1018	8334	8441	8873	9691	10157	11856	11516	12839
L	848	1053	8354	8464	8899	9716	10183	11877	11543	12864
M	1378	1719	7926	8080	8572	9382	9852	11456	11225	12508
N	1417	1757	7926	8083	8579	9388	9858	11457	11232	12513
O	1413	1779	7782	7939	8435	9244	9714	11313	11088	12368
P	1444	1805	7805	7964	8462	9271	9741	11335	11116	12394
Q	1630	2000	6405	6452	6826	7646	8109	9891	9455	10803
R	1667	2039	6366	6415	6791	7610	8073	9853	9420	10767
S	1939	2323	6088	6147	6540	7360	7824	9583	9177	10514
T	1981	2362	6047	6104	6495	7314	7779	9540	9131	10469
U	4170	4408	4698	4530	4637	5431	5862	7884	7119	8545
V	4206	4444	4663	4492	4598	5392	5823	7846	7080	8506
W	3878	4189	4386	4328	4601	5419	5874	7760	7199	8575
X	3927	4239	4335	4276	4550	5368	5824	7709	7149	8525
Y	8854	9263	1514	2033	2760	2891	3144	3366	4185	4840
Z	8880	9290	1548	2066	2791	2915	3165	3364	4198	4843
AA	8937	9348	1589	2100	2815	2924	3165	3328	4184	4813
AB	8947	9358	1625	2138	2854	2962	3202	3348	4216	4838
AC	11917	12298	3895	3938	3933	3286	3029	935	2756	2255
AD	11921	12303	3901	3949	3952	3309	3056	970	2792	2291
AE	12029	12410	4006	4043	4025	3367	3099	966	2776	2211
AF	12004	12385	3982	4023	4012	3359	3096	976	2791	2242
AG	12105	12485	4081	4114	4087	3422	3148	993	2792	2185
AH	12116	12497	4094	4131	4112	3451	3179	1030	2831	2223
AI	11791	12133	3975	3753	3360	2548	2116	946	1153	738
AJ	11823	12163	4012	3788	3389	2576	2141	980	1155	698
AK	12911	13235	5254	4978	4468	3650	3184	2173	1855	603
AL	12933	13255	5281	5003	4490	3673	3206	2203	1874	633
AM	13674	14021	5757	5604	5262	4454	4022	2257	2895	1436
AN	13696	14044	5778	5625	5286	4478	4046	2275	2920	1461

DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Assumptions

Calculated L(DW) = LWA,ref + K + Dc - (Adiv + Aatm + Agr + Abar + Amisc) - Cmet
(when calculated with ground attenuation, then Dc = Domega)

LWA,ref:	Sound pressure level at WTG
K:	Pure tone
Dc:	Directivity correction
Adiv:	the attenuation due to geometrical divergence
Aatm:	the attenuation due to atmospheric absorption
Agr:	the attenuation due to ground effect
Abar:	the attenuation due to a barrier
Amisc:	the attenuation due to miscellaneous other effects
Cmet:	Meteorological correction

Calculation Results

Noise sensitive area: A Sklypas/40 m saugotina aplinka: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	696	708	35,36	106,9	0,00	68,00	-	-	0,00	0,00	-
10	12 162	12 163	1,49	106,9	0,00	92,70	-	-	0,00	0,00	-
2	692	705	35,40	106,9	0,00	67,97	-	-	0,00	0,00	-
3	7 878	7 880	6,46	106,9	0,00	88,93	-	-	0,00	0,00	-
4	7 885	7 886	6,45	106,9	0,00	88,94	-	-	0,00	0,00	-
5	8 189	8 190	6,02	106,9	0,00	89,27	-	-	0,00	0,00	-
6	9 007	9 008	4,92	106,9	0,00	90,09	-	-	0,00	0,00	-
7	9 461	9 462	4,36	106,9	0,00	90,52	-	-	0,00	0,00	-
8	11 327	11 327	2,30	106,9	0,00	92,08	-	-	0,00	0,00	-
9	10 776	10 777	2,87	106,9	0,00	91,65	-	-	0,00	0,00	-
Sum			38,40								

- Data undefined due to calculation with octave data

Noise sensitive area: B Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (2)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	734	746	34,79	106,9	0,00	68,45	-	-	0,00	0,00	-
10	12 129	12 129	1,53	106,9	0,00	92,68	-	-	0,00	0,00	-
2	735	747	34,76	106,9	0,00	68,47	-	-	0,00	0,00	-
3	7 851	7 852	6,50	106,9	0,00	88,90	-	-	0,00	0,00	-
4	7 855	7 856	6,50	106,9	0,00	88,90	-	-	0,00	0,00	-
5	8 156	8 157	6,06	106,9	0,00	89,23	-	-	0,00	0,00	-
6	8 974	8 975	4,96	106,9	0,00	90,06	-	-	0,00	0,00	-
7	9 427	9 428	4,40	106,9	0,00	90,49	-	-	0,00	0,00	-
8	11 297	11 297	2,33	106,9	0,00	92,06	-	-	0,00	0,00	-
9	10 741	10 742	2,91	106,9	0,00	91,62	-	-	0,00	0,00	-
Sum			37,80								

- Data undefined due to calculation with octave data

Noise sensitive area: C Sklypas/40 m saugotina aplinka: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (3)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	736	748	34,76	106,9	0,00	68,47	-	-	0,00	0,00	-
10	12 080	12 080	1,57	106,9	0,00	92,64	-	-	0,00	0,00	-
2	768	779	34,31	106,9	0,00	68,83	-	-	0,00	0,00	-
3	7 799	7 800	6,58	106,9	0,00	88,84	-	-	0,00	0,00	-
4	7 804	7 805	6,57	106,9	0,00	88,85	-	-	0,00	0,00	-
5	8 107	8 108	6,13	106,9	0,00	89,18	-	-	0,00	0,00	-
6	8 924	8 925	5,03	106,9	0,00	90,01	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

...continued from previous page

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
7	9 378	9 379	4,46	106,9	0,00	90,44	-	-	0,00	0,00	-
8	11 245	11 246	2,38	106,9	0,00	92,02	-	-	0,00	0,00	-
9	10 693	10 694	2,96	106,9	0,00	91,58	-	-	0,00	0,00	-
Sum			37,57								

- Data undefined due to calculation with octave data

Noise sensitive area: D Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (4)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	806	817	33,78	106,9	0,00	69,24	-	-	0,00	0,00	-
10	12 056	12 057	1,59	106,9	0,00	92,62	-	-	0,00	0,00	-
2	821	832	33,58	106,9	0,00	69,40	-	-	0,00	0,00	-
3	7 789	7 791	6,60	106,9	0,00	88,83	-	-	0,00	0,00	-
4	7 789	7 790	6,60	106,9	0,00	88,83	-	-	0,00	0,00	-
5	8 085	8 086	6,16	106,9	0,00	89,15	-	-	0,00	0,00	-
6	8 902	8 903	5,06	106,9	0,00	89,99	-	-	0,00	0,00	-
7	9 355	9 356	4,49	106,9	0,00	90,42	-	-	0,00	0,00	-
8	11 230	11 231	2,40	106,9	0,00	92,01	-	-	0,00	0,00	-
9	10 667	10 668	2,99	106,9	0,00	91,56	-	-	0,00	0,00	-
Sum			36,71								

- Data undefined due to calculation with octave data

Noise sensitive area: E Sklypas/40 m saugotina aplinka: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (5)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	882	892	32,80	106,9	0,00	70,01	-	-	0,00	0,00	-
10	12 021	12 022	1,63	106,9	0,00	92,60	-	-	0,00	0,00	-
2	888	898	32,72	106,9	0,00	70,07	-	-	0,00	0,00	-
3	7 768	7 770	6,63	106,9	0,00	88,81	-	-	0,00	0,00	-
4	7 762	7 764	6,64	106,9	0,00	88,80	-	-	0,00	0,00	-
5	8 052	8 053	6,21	106,9	0,00	89,12	-	-	0,00	0,00	-
6	8 868	8 869	5,10	106,9	0,00	89,96	-	-	0,00	0,00	-
7	9 320	9 321	4,53	106,9	0,00	90,39	-	-	0,00	0,00	-
8	11 203	11 204	2,43	106,9	0,00	91,99	-	-	0,00	0,00	-
9	10 629	10 630	3,03	106,9	0,00	91,53	-	-	0,00	0,00	-
Sum			35,80								

- Data undefined due to calculation with octave data

Noise sensitive area: F Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (6)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	878	889	32,85	106,9	0,00	69,97	-	-	0,00	0,00	-
10	11 990	11 990	1,66	106,9	0,00	92,58	-	-	0,00	0,00	-
2	903	913	32,54	106,9	0,00	70,21	-	-	0,00	0,00	-
3	7 733	7 735	6,68	106,9	0,00	88,77	-	-	0,00	0,00	-
4	7 729	7 730	6,69	106,9	0,00	88,76	-	-	0,00	0,00	-
5	8 019	8 021	6,26	106,9	0,00	89,08	-	-	0,00	0,00	-
6	8 836	8 837	5,14	106,9	0,00	89,93	-	-	0,00	0,00	-
7	9 288	9 289	4,57	106,9	0,00	90,36	-	-	0,00	0,00	-
8	11 169	11 170	2,46	106,9	0,00	91,96	-	-	0,00	0,00	-
9	10 598	10 599	3,06	106,9	0,00	91,51	-	-	0,00	0,00	-
Sum			35,73								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: G Sklypas/40 m saugotina aplinka: Neturi adreso (7)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	849	859	33,22	106,9	0,00	69,68	-	-	0,00	0,00	-
10	12 112	12 113	1,54	106,9	0,00	92,66	-	-	0,00	0,00	-
2	817	827	33,64	106,9	0,00	69,35	-	-	0,00	0,00	-
3	7 858	7 859	6,49	106,9	0,00	88,91	-	-	0,00	0,00	-
4	7 853	7 854	6,50	106,9	0,00	88,90	-	-	0,00	0,00	-
5	8 142	8 143	6,08	106,9	0,00	89,22	-	-	0,00	0,00	-
6	8 959	8 960	4,98	106,9	0,00	90,05	-	-	0,00	0,00	-
7	9 411	9 412	4,42	106,9	0,00	90,47	-	-	0,00	0,00	-
8	11 293	11 294	2,34	106,9	0,00	92,06	-	-	0,00	0,00	-
9	10 719	10 720	2,93	106,9	0,00	91,60	-	-	0,00	0,00	-
Sum			36,47								

- Data undefined due to calculation with octave data

Noise sensitive area: H Gyvenamasis pastatas: Neturi adreso (8)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	896	906	32,63	106,9	0,00	70,14	-	-	0,00	0,00	-
10	12 080	12 081	1,57	106,9	0,00	92,64	-	-	0,00	0,00	-
2	866	876	33,01	106,9	0,00	69,85	-	-	0,00	0,00	-
3	7 834	7 836	6,53	106,9	0,00	88,88	-	-	0,00	0,00	-
4	7 826	7 827	6,54	106,9	0,00	88,87	-	-	0,00	0,00	-
5	8 112	8 113	6,13	106,9	0,00	89,18	-	-	0,00	0,00	-
6	8 928	8 929	5,02	106,9	0,00	90,02	-	-	0,00	0,00	-
7	9 379	9 380	4,46	106,9	0,00	90,44	-	-	0,00	0,00	-
8	11 266	11 267	2,36	106,9	0,00	92,04	-	-	0,00	0,00	-
9	10 686	10 687	2,97	106,9	0,00	91,58	-	-	0,00	0,00	-
Sum			35,86								

- Data undefined due to calculation with octave data

Noise sensitive area: I Sklypas/40 m saugotina aplinka: Neturi adreso (9)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	832	842	33,45	106,9	0,00	69,50	-	-	0,00	0,00	-
10	12 951	12 952	0,78	106,9	0,00	93,25	-	-	0,00	0,00	-
2	987	995	31,57	106,9	0,00	70,95	-	-	0,00	0,00	-
3	8 451	8 452	5,65	106,9	0,00	89,54	-	-	0,00	0,00	-
4	8 556	8 557	5,51	106,9	0,00	89,65	-	-	0,00	0,00	-
5	8 983	8 984	4,95	106,9	0,00	90,07	-	-	0,00	0,00	-
6	9 801	9 802	3,95	106,9	0,00	90,83	-	-	0,00	0,00	-
7	10 268	10 268	3,42	106,9	0,00	91,23	-	-	0,00	0,00	-
8	11 972	11 973	1,67	106,9	0,00	92,56	-	-	0,00	0,00	-
9	11 625	11 626	2,01	106,9	0,00	92,31	-	-	0,00	0,00	-
Sum			35,65								

- Data undefined due to calculation with octave data

Noise sensitive area: J Gyvenamasis pastatas: Neturi adreso (10)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	872	881	32,94	106,9	0,00	69,90	-	-	0,00	0,00	-
10	12 974	12 974	0,76	106,9	0,00	93,26	-	-	0,00	0,00	-
2	1 025	1 032	31,15	106,9	0,00	71,28	-	-	0,00	0,00	-
3	8 469	8 470	5,63	106,9	0,00	89,56	-	-	0,00	0,00	-
4	8 576	8 577	5,48	106,9	0,00	89,67	-	-	0,00	0,00	-
5	9 007	9 008	4,92	106,9	0,00	90,09	-	-	0,00	0,00	-
6	9 825	9 825	3,93	106,9	0,00	90,85	-	-	0,00	0,00	-
7	10 291	10 292	3,40	106,9	0,00	91,25	-	-	0,00	0,00	-
8	11 991	11 992	1,65	106,9	0,00	92,58	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
9	11 650	11 650	1,98	106,9	0,00	92,33	-	-	0,00	0,00	-
Sum			35,17								

- Data undefined due to calculation with octave data

Noise sensitive area: K Sklypas/40 m saugotina aplinka: Neturi adreso (11)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	807	818	33,77	106,9	0,00	69,25	-	-	0,00	0,00	-
10	12 839	12 840	0,88	106,9	0,00	93,17	-	-	0,00	0,00	-
2	1 018	1 026	31,22	106,9	0,00	71,22	-	-	0,00	0,00	-
3	8 334	8 335	5,81	106,9	0,00	89,42	-	-	0,00	0,00	-
4	8 441	8 442	5,67	106,9	0,00	89,53	-	-	0,00	0,00	-
5	8 873	8 874	5,09	106,9	0,00	89,96	-	-	0,00	0,00	-
6	9 691	9 692	4,08	106,9	0,00	90,73	-	-	0,00	0,00	-
7	10 157	10 158	3,54	106,9	0,00	91,14	-	-	0,00	0,00	-
8	11 856	11 857	1,78	106,9	0,00	92,48	-	-	0,00	0,00	-
9	11 516	11 517	2,11	106,9	0,00	92,23	-	-	0,00	0,00	-
Sum			35,72								

- Data undefined due to calculation with octave data

Noise sensitive area: L Gyvenamasis pastatas: Neturi adreso (12)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	848	858	33,24	106,9	0,00	69,67	-	-	0,00	0,00	-
10	12 864	12 865	0,86	106,9	0,00	93,19	-	-	0,00	0,00	-
2	1 053	1 061	30,84	106,9	0,00	71,52	-	-	0,00	0,00	-
3	8 354	8 355	5,79	106,9	0,00	89,44	-	-	0,00	0,00	-
4	8 464	8 465	5,64	106,9	0,00	89,55	-	-	0,00	0,00	-
5	8 899	8 900	5,06	106,9	0,00	89,99	-	-	0,00	0,00	-
6	9 716	9 717	4,05	106,9	0,00	90,75	-	-	0,00	0,00	-
7	10 183	10 184	3,52	106,9	0,00	91,16	-	-	0,00	0,00	-
8	11 877	11 878	1,76	106,9	0,00	92,49	-	-	0,00	0,00	-
9	11 543	11 544	2,09	106,9	0,00	92,25	-	-	0,00	0,00	-
Sum			35,24								

- Data undefined due to calculation with octave data

Noise sensitive area: M Sklypas/40 m saugotina aplinka: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (13)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 378	1 384	27,76	106,9	0,00	73,82	-	-	0,00	0,00	-
10	12 508	12 509	1,18	106,9	0,00	92,94	-	-	0,00	0,00	-
2	1 719	1 724	25,15	106,9	0,00	75,73	-	-	0,00	0,00	-
3	7 926	7 927	6,40	106,9	0,00	88,98	-	-	0,00	0,00	-
4	8 080	8 081	6,17	106,9	0,00	89,15	-	-	0,00	0,00	-
5	8 572	8 573	5,49	106,9	0,00	89,66	-	-	0,00	0,00	-
6	9 382	9 383	4,45	106,9	0,00	90,45	-	-	0,00	0,00	-
7	9 852	9 853	3,89	106,9	0,00	90,87	-	-	0,00	0,00	-
8	11 456	11 457	2,17	106,9	0,00	92,18	-	-	0,00	0,00	-
9	11 225	11 226	2,41	106,9	0,00	92,00	-	-	0,00	0,00	-
Sum			29,76								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: N Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (14)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 417	1 424	27,43	106,9	0,00	74,07	-	-	0,00	0,00	-
10	12 513	12 513	1,17	106,9	0,00	92,95	-	-	0,00	0,00	-
2	1 757	1 762	24,88	106,9	0,00	75,92	-	-	0,00	0,00	-
3	7 926	7 928	6,39	106,9	0,00	88,98	-	-	0,00	0,00	-
4	8 083	8 085	6,17	106,9	0,00	89,15	-	-	0,00	0,00	-
5	8 579	8 580	5,48	106,9	0,00	89,67	-	-	0,00	0,00	-
6	9 388	9 389	4,45	106,9	0,00	90,45	-	-	0,00	0,00	-
7	9 858	9 859	3,89	106,9	0,00	90,88	-	-	0,00	0,00	-
8	11 457	11 458	2,17	106,9	0,00	92,18	-	-	0,00	0,00	-
9	11 232	11 233	2,40	106,9	0,00	92,01	-	-	0,00	0,00	-
Sum			29,46								

- Data undefined due to calculation with octave data

Noise sensitive area: O Sklypas/40 m saugotina aplinka: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (15)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 413	1 419	27,47	106,9	0,00	74,04	-	-	0,00	0,00	-
10	12 368	12 369	1,30	106,9	0,00	92,85	-	-	0,00	0,00	-
2	1 779	1 784	24,73	106,9	0,00	76,03	-	-	0,00	0,00	-
3	7 782	7 783	6,61	106,9	0,00	88,82	-	-	0,00	0,00	-
4	7 939	7 940	6,38	106,9	0,00	89,00	-	-	0,00	0,00	-
5	8 435	8 436	5,68	106,9	0,00	89,52	-	-	0,00	0,00	-
6	9 244	9 245	4,62	106,9	0,00	90,32	-	-	0,00	0,00	-
7	9 714	9 715	4,06	106,9	0,00	90,75	-	-	0,00	0,00	-
8	11 313	11 313	2,32	106,9	0,00	92,07	-	-	0,00	0,00	-
9	11 088	11 089	2,55	106,9	0,00	91,90	-	-	0,00	0,00	-
Sum			29,44								

- Data undefined due to calculation with octave data

Noise sensitive area: P Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (16)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 444	1 450	27,22	106,9	0,00	74,23	-	-	0,00	0,00	-
10	12 394	12 395	1,28	106,9	0,00	92,86	-	-	0,00	0,00	-
2	1 805	1 810	24,56	106,9	0,00	76,15	-	-	0,00	0,00	-
3	7 805	7 806	6,57	106,9	0,00	88,85	-	-	0,00	0,00	-
4	7 964	7 965	6,34	106,9	0,00	89,02	-	-	0,00	0,00	-
5	8 462	8 463	5,64	106,9	0,00	89,55	-	-	0,00	0,00	-
6	9 271	9 272	4,59	106,9	0,00	90,34	-	-	0,00	0,00	-
7	9 741	9 742	4,02	106,9	0,00	90,77	-	-	0,00	0,00	-
8	11 335	11 336	2,29	106,9	0,00	92,09	-	-	0,00	0,00	-
9	11 116	11 117	2,52	106,9	0,00	91,92	-	-	0,00	0,00	-
Sum			29,22								

- Data undefined due to calculation with octave data

Noise sensitive area: Q Sklypas/40 m saugotina aplinka: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (17)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 630	1 635	25,78	106,9	0,00	75,27	-	-	0,00	0,00	-
10	10 803	10 804	2,84	106,9	0,00	91,67	-	-	0,00	0,00	-
2	2 000	2 004	23,31	106,9	0,00	77,04	-	-	0,00	0,00	-
3	6 405	6 406	8,87	106,9	0,00	87,13	-	-	0,00	0,00	-
4	6 452	6 454	8,79	106,9	0,00	87,20	-	-	0,00	0,00	-
5	6 826	6 828	8,13	106,9	0,00	87,69	-	-	0,00	0,00	-
6	7 646	7 647	6,81	106,9	0,00	88,67	-	-	0,00	0,00	-
7	8 109	8 110	6,13	106,9	0,00	89,18	-	-	0,00	0,00	-
8	9 891	9 892	3,85	106,9	0,00	90,91	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
9	9 455	9 455	4,36	106,9	0,00	90,51	-	-	0,00	0,00	-
Sum			28,00								

- Data undefined due to calculation with octave data

Noise sensitive area: R Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (18)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 667	1 672	25,51	106,9	0,00	75,47	-	-	0,00	0,00	-
10	10 767	10 768	2,88	106,9	0,00	91,64	-	-	0,00	0,00	-
2	2 039	2 043	23,07	106,9	0,00	77,21	-	-	0,00	0,00	-
3	6 366	6 368	8,94	106,9	0,00	87,08	-	-	0,00	0,00	-
4	6 415	6 416	8,86	106,9	0,00	87,15	-	-	0,00	0,00	-
5	6 791	6 792	8,19	106,9	0,00	87,64	-	-	0,00	0,00	-
6	7 610	7 612	6,86	106,9	0,00	88,63	-	-	0,00	0,00	-
7	8 073	8 075	6,18	106,9	0,00	89,14	-	-	0,00	0,00	-
8	9 853	9 854	3,89	106,9	0,00	90,87	-	-	0,00	0,00	-
9	9 420	9 421	4,41	106,9	0,00	90,48	-	-	0,00	0,00	-
Sum			27,76								

- Data undefined due to calculation with octave data

Noise sensitive area: S Sklypas/40 m saugotina aplinka: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (19)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 939	1 943	23,69	106,9	0,00	76,77	-	-	0,00	0,00	-
10	10 514	10 515	3,15	106,9	0,00	91,44	-	-	0,00	0,00	-
2	2 323	2 327	21,45	106,9	0,00	78,34	-	-	0,00	0,00	-
3	6 088	6 089	9,47	106,9	0,00	86,69	-	-	0,00	0,00	-
4	6 147	6 149	9,35	106,9	0,00	86,78	-	-	0,00	0,00	-
5	6 540	6 542	8,63	106,9	0,00	87,31	-	-	0,00	0,00	-
6	7 360	7 361	7,25	106,9	0,00	88,34	-	-	0,00	0,00	-
7	7 824	7 825	6,54	106,9	0,00	88,87	-	-	0,00	0,00	-
8	9 583	9 584	4,21	106,9	0,00	90,63	-	-	0,00	0,00	-
9	9 177	9 178	4,71	106,9	0,00	90,25	-	-	0,00	0,00	-
Sum			26,19								

- Data undefined due to calculation with octave data

Noise sensitive area: T Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (20)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 981	1 985	23,42	106,9	0,00	76,96	-	-	0,00	0,00	-
10	10 469	10 470	3,20	106,9	0,00	91,40	-	-	0,00	0,00	-
2	2 362	2 366	21,24	106,9	0,00	78,48	-	-	0,00	0,00	-
3	6 047	6 048	9,55	106,9	0,00	86,63	-	-	0,00	0,00	-
4	6 104	6 106	9,44	106,9	0,00	86,71	-	-	0,00	0,00	-
5	6 495	6 496	8,71	106,9	0,00	87,25	-	-	0,00	0,00	-
6	7 314	7 315	7,33	106,9	0,00	88,28	-	-	0,00	0,00	-
7	7 779	7 780	6,61	106,9	0,00	88,82	-	-	0,00	0,00	-
8	9 540	9 541	4,26	106,9	0,00	90,59	-	-	0,00	0,00	-
9	9 131	9 132	4,76	106,9	0,00	90,21	-	-	0,00	0,00	-
Sum			25,98								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: U Sklypas/40 m saugotina aplinka: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (21)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	4 170	4 173	13,93	106,9	0,00	83,41	-	-	0,00	0,00	-
10	8 545	8 546	5,53	106,9	0,00	89,64	-	-	0,00	0,00	-
2	4 408	4 410	13,27	106,9	0,00	83,89	-	-	0,00	0,00	-
3	4 698	4 700	12,52	106,9	0,00	84,44	-	-	0,00	0,00	-
4	4 530	4 532	12,95	106,9	0,00	84,12	-	-	0,00	0,00	-
5	4 637	4 639	12,68	106,9	0,00	84,33	-	-	0,00	0,00	-
6	5 431	5 433	10,81	106,9	0,00	85,70	-	-	0,00	0,00	-
7	5 862	5 864	9,91	106,9	0,00	86,36	-	-	0,00	0,00	-
8	7 884	7 886	6,46	106,9	0,00	88,94	-	-	0,00	0,00	-
9	7 119	7 120	7,64	106,9	0,00	88,05	-	-	0,00	0,00	-
Sum			21,39								

- Data undefined due to calculation with octave data

Noise sensitive area: V Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (22)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	4 206	4 208	13,83	106,9	0,00	83,48	-	-	0,00	0,00	-
10	8 506	8 507	5,58	106,9	0,00	89,60	-	-	0,00	0,00	-
2	4 444	4 446	13,18	106,9	0,00	83,96	-	-	0,00	0,00	-
3	4 663	4 665	12,61	106,9	0,00	84,38	-	-	0,00	0,00	-
4	4 492	4 494	13,05	106,9	0,00	84,05	-	-	0,00	0,00	-
5	4 598	4 600	12,78	106,9	0,00	84,26	-	-	0,00	0,00	-
6	5 392	5 394	10,90	106,9	0,00	85,64	-	-	0,00	0,00	-
7	5 823	5 825	9,99	106,9	0,00	86,31	-	-	0,00	0,00	-
8	7 846	7 847	6,51	106,9	0,00	88,89	-	-	0,00	0,00	-
9	7 080	7 081	7,70	106,9	0,00	88,00	-	-	0,00	0,00	-
Sum			21,42								

- Data undefined due to calculation with octave data

Noise sensitive area: W Sklypas/40 m saugotina aplinka: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (23)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	3 878	3 880	14,85	106,9	0,00	82,78	-	-	0,00	0,00	-
10	8 575	8 576	5,49	106,9	0,00	89,67	-	-	0,00	0,00	-
2	4 189	4 192	13,87	106,9	0,00	83,45	-	-	0,00	0,00	-
3	4 386	4 388	13,33	106,9	0,00	83,85	-	-	0,00	0,00	-
4	4 328	4 330	13,49	106,9	0,00	83,73	-	-	0,00	0,00	-
5	4 601	4 603	12,77	106,9	0,00	84,26	-	-	0,00	0,00	-
6	5 419	5 420	10,84	106,9	0,00	85,68	-	-	0,00	0,00	-
7	5 874	5 876	9,89	106,9	0,00	86,38	-	-	0,00	0,00	-
8	7 760	7 762	6,64	106,9	0,00	88,80	-	-	0,00	0,00	-
9	7 199	7 200	7,51	106,9	0,00	88,15	-	-	0,00	0,00	-
Sum			21,86								

- Data undefined due to calculation with octave data

Noise sensitive area: X Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (24)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	3 927	3 929	14,69	106,9	0,00	82,89	-	-	0,00	0,00	-
10	8 525	8 526	5,55	106,9	0,00	89,61	-	-	0,00	0,00	-
2	4 239	4 242	13,73	106,9	0,00	83,55	-	-	0,00	0,00	-
3	4 335	4 337	13,47	106,9	0,00	83,74	-	-	0,00	0,00	-
4	4 276	4 278	13,63	106,9	0,00	83,63	-	-	0,00	0,00	-
5	4 550	4 552	12,90	106,9	0,00	84,16	-	-	0,00	0,00	-
6	5 368	5 370	10,95	106,9	0,00	85,60	-	-	0,00	0,00	-
7	5 824	5 825	9,99	106,9	0,00	86,31	-	-	0,00	0,00	-
8	7 709	7 710	6,72	106,9	0,00	88,74	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
9	7 149	7 151	7,59	106,9	0,00	88,09	-	-	0,00	0,00	-
Sum			21,88								

- Data undefined due to calculation with octave data

Noise sensitive area: Y Sklypas/40 m saugotina aplinka: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (25)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	8 854	8 855	5,12	106,9	0,00	89,94	-	-	0,00	0,00	-
10	4 840	4 842	12,17	106,9	0,00	84,70	-	-	0,00	0,00	-
2	9 263	9 264	4,60	106,9	0,00	90,34	-	-	0,00	0,00	-
3	1 514	1 519	26,66	106,9	0,00	74,63	-	-	0,00	0,00	-
4	2 033	2 037	23,11	106,9	0,00	77,18	-	-	0,00	0,00	-
5	2 760	2 763	19,26	106,9	0,00	79,83	-	-	0,00	0,00	-
6	2 891	2 894	18,67	106,9	0,00	80,23	-	-	0,00	0,00	-
7	3 144	3 147	17,59	106,9	0,00	80,96	-	-	0,00	0,00	-
8	3 366	3 369	16,70	106,9	0,00	81,55	-	-	0,00	0,00	-
9	4 185	4 187	13,88	106,9	0,00	83,44	-	-	0,00	0,00	-
Sum			29,90								

- Data undefined due to calculation with octave data

Noise sensitive area: Z Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (26)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	8 880	8 881	5,08	106,9	0,00	89,97	-	-	0,00	0,00	-
10	4 843	4 844	12,16	106,9	0,00	84,70	-	-	0,00	0,00	-
2	9 290	9 291	4,57	106,9	0,00	90,36	-	-	0,00	0,00	-
3	1 548	1 554	26,40	106,9	0,00	74,83	-	-	0,00	0,00	-
4	2 066	2 070	22,91	106,9	0,00	77,32	-	-	0,00	0,00	-
5	2 791	2 794	19,12	106,9	0,00	79,92	-	-	0,00	0,00	-
6	2 915	2 918	18,56	106,9	0,00	80,30	-	-	0,00	0,00	-
7	3 165	3 167	17,51	106,9	0,00	81,01	-	-	0,00	0,00	-
8	3 364	3 367	16,71	106,9	0,00	81,54	-	-	0,00	0,00	-
9	4 198	4 200	13,85	106,9	0,00	83,46	-	-	0,00	0,00	-
Sum			29,71								

- Data undefined due to calculation with octave data

Noise sensitive area: AA Sklypas/40 m saugotina aplinka: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (27)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	8 937	8 938	5,01	106,9	0,00	90,02	-	-	0,00	0,00	-
10	4 813	4 815	12,24	106,9	0,00	84,65	-	-	0,00	0,00	-
2	9 348	9 348	4,50	106,9	0,00	90,41	-	-	0,00	0,00	-
3	1 589	1 594	26,09	106,9	0,00	75,05	-	-	0,00	0,00	-
4	2 100	2 104	22,71	106,9	0,00	77,46	-	-	0,00	0,00	-
5	2 815	2 818	19,01	106,9	0,00	80,00	-	-	0,00	0,00	-
6	2 924	2 927	18,53	106,9	0,00	80,33	-	-	0,00	0,00	-
7	3 165	3 168	17,50	106,9	0,00	81,02	-	-	0,00	0,00	-
8	3 328	3 330	16,85	106,9	0,00	81,45	-	-	0,00	0,00	-
9	4 184	4 186	13,89	106,9	0,00	83,44	-	-	0,00	0,00	-
Sum			29,52								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: AB Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (28)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	8 947	8 948	5,00	106,9	0,00	90,03	-	-	0,00	0,00	-
10	4 838	4 839	12,18	106,9	0,00	84,70	-	-	0,00	0,00	-
2	9 358	9 359	4,48	106,9	0,00	90,42	-	-	0,00	0,00	-
3	1 625	1 630	25,83	106,9	0,00	75,24	-	-	0,00	0,00	-
4	2 138	2 141	22,49	106,9	0,00	77,61	-	-	0,00	0,00	-
5	2 854	2 857	18,84	106,9	0,00	80,12	-	-	0,00	0,00	-
6	2 962	2 965	18,36	106,9	0,00	80,44	-	-	0,00	0,00	-
7	3 202	3 205	17,35	106,9	0,00	81,12	-	-	0,00	0,00	-
8	3 348	3 351	16,77	106,9	0,00	81,50	-	-	0,00	0,00	-
9	4 216	4 218	13,80	106,9	0,00	83,50	-	-	0,00	0,00	-
Sum			29,31								

- Data undefined due to calculation with octave data

Noise sensitive area: AC Sklypas/40 m saugotina aplinka: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (29)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 917	11 917	1,73	106,9	0,00	92,52	-	-	0,00	0,00	-
10	2 255	2 258	21,82	106,9	0,00	78,08	-	-	0,00	0,00	-
2	12 298	12 299	1,37	106,9	0,00	92,80	-	-	0,00	0,00	-
3	3 895	3 897	14,80	106,9	0,00	82,81	-	-	0,00	0,00	-
4	3 938	3 940	14,65	106,9	0,00	82,91	-	-	0,00	0,00	-
5	3 933	3 935	14,67	106,9	0,00	82,90	-	-	0,00	0,00	-
6	3 286	3 288	17,02	106,9	0,00	81,34	-	-	0,00	0,00	-
7	3 029	3 031	18,07	106,9	0,00	80,63	-	-	0,00	0,00	-
8	935	944	32,17	106,9	0,00	70,50	-	-	0,00	0,00	-
9	2 756	2 758	19,29	106,9	0,00	79,81	-	-	0,00	0,00	-
Sum			33,20								

- Data undefined due to calculation with octave data

Noise sensitive area: AD Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (30)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 921	11 922	1,72	106,9	0,00	92,53	-	-	0,00	0,00	-
10	2 291	2 295	21,62	106,9	0,00	78,21	-	-	0,00	0,00	-
2	12 303	12 304	1,36	106,9	0,00	92,80	-	-	0,00	0,00	-
3	3 901	3 903	14,78	106,9	0,00	82,83	-	-	0,00	0,00	-
4	3 949	3 951	14,62	106,9	0,00	82,93	-	-	0,00	0,00	-
5	3 952	3 954	14,61	106,9	0,00	82,94	-	-	0,00	0,00	-
6	3 309	3 311	16,93	106,9	0,00	81,40	-	-	0,00	0,00	-
7	3 056	3 058	17,96	106,9	0,00	80,71	-	-	0,00	0,00	-
8	970	979	31,76	106,9	0,00	70,81	-	-	0,00	0,00	-
9	2 792	2 794	19,12	106,9	0,00	79,93	-	-	0,00	0,00	-
Sum			32,85								

- Data undefined due to calculation with octave data

Noise sensitive area: AE Sklypas/40 m saugotina aplinka: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (31)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 029	12 030	1,62	106,9	0,00	92,61	-	-	0,00	0,00	-
10	2 211	2 215	22,07	106,9	0,00	77,91	-	-	0,00	0,00	-
2	12 410	12 410	1,27	106,9	0,00	92,88	-	-	0,00	0,00	-
3	4 006	4 008	14,43	106,9	0,00	83,06	-	-	0,00	0,00	-
4	4 043	4 045	14,31	106,9	0,00	83,14	-	-	0,00	0,00	-
5	4 025	4 026	14,37	106,9	0,00	83,10	-	-	0,00	0,00	-
6	3 367	3 369	16,70	106,9	0,00	81,55	-	-	0,00	0,00	-
7	3 099	3 101	17,78	106,9	0,00	80,83	-	-	0,00	0,00	-
8	966	974	31,81	106,9	0,00	70,77	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
9	2 776	2 779	19,19	106,9	0,00	79,88	-	-	0,00	0,00	-
Sum			32,91								

- Data undefined due to calculation with octave data

Noise sensitive area: AF Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (32)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 004	12 005	1,64	106,9	0,00	92,59	-	-	0,00	0,00	-
10	2 242	2 246	21,89	106,9	0,00	78,03	-	-	0,00	0,00	-
2	12 385	12 386	1,29	106,9	0,00	92,86	-	-	0,00	0,00	-
3	3 982	3 984	14,51	106,9	0,00	83,01	-	-	0,00	0,00	-
4	4 023	4 025	14,37	106,9	0,00	83,10	-	-	0,00	0,00	-
5	4 012	4 014	14,41	106,9	0,00	83,07	-	-	0,00	0,00	-
6	3 359	3 362	16,73	106,9	0,00	81,53	-	-	0,00	0,00	-
7	3 096	3 099	17,79	106,9	0,00	80,82	-	-	0,00	0,00	-
8	976	984	31,69	106,9	0,00	70,86	-	-	0,00	0,00	-
9	2 791	2 793	19,13	106,9	0,00	79,92	-	-	0,00	0,00	-
Sum			32,80								

- Data undefined due to calculation with octave data

Noise sensitive area: AG Sklypas/40 m saugotina aplinka: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (33)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 105	12 106	1,55	106,9	0,00	92,66	-	-	0,00	0,00	-
10	2 185	2 188	22,22	106,9	0,00	77,80	-	-	0,00	0,00	-
2	12 485	12 486	1,20	106,9	0,00	92,93	-	-	0,00	0,00	-
3	4 081	4 083	14,18	106,9	0,00	83,22	-	-	0,00	0,00	-
4	4 114	4 116	14,09	106,9	0,00	83,29	-	-	0,00	0,00	-
5	4 087	4 089	14,17	106,9	0,00	83,23	-	-	0,00	0,00	-
6	3 422	3 425	16,49	106,9	0,00	81,69	-	-	0,00	0,00	-
7	3 148	3 150	17,58	106,9	0,00	80,97	-	-	0,00	0,00	-
8	993	1 001	31,50	106,9	0,00	71,01	-	-	0,00	0,00	-
9	2 792	2 795	19,12	106,9	0,00	79,93	-	-	0,00	0,00	-
Sum			32,65								

- Data undefined due to calculation with octave data

Noise sensitive area: AH Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (34)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 116	12 117	1,54	106,9	0,00	92,67	-	-	0,00	0,00	-
10	2 223	2 226	22,00	106,9	0,00	77,95	-	-	0,00	0,00	-
2	12 497	12 498	1,19	106,9	0,00	92,94	-	-	0,00	0,00	-
3	4 094	4 095	14,15	106,9	0,00	83,25	-	-	0,00	0,00	-
4	4 131	4 133	14,04	106,9	0,00	83,33	-	-	0,00	0,00	-
5	4 112	4 113	14,09	106,9	0,00	83,28	-	-	0,00	0,00	-
6	3 451	3 453	16,38	106,9	0,00	81,76	-	-	0,00	0,00	-
7	3 179	3 181	17,45	106,9	0,00	81,05	-	-	0,00	0,00	-
8	1 030	1 038	31,09	106,9	0,00	71,32	-	-	0,00	0,00	-
9	2 831	2 834	18,94	106,9	0,00	80,05	-	-	0,00	0,00	-
Sum			32,31								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: AI Sklypas/40 m saugotina aplinka: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (35)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 791	11 792	1,85	106,9	0,00	92,43	-	-	0,00	0,00	-
10	738	748	34,76	106,9	0,00	68,48	-	-	0,00	0,00	-
2	12 133	12 133	1,52	106,9	0,00	92,68	-	-	0,00	0,00	-
3	3 975	3 977	14,53	106,9	0,00	82,99	-	-	0,00	0,00	-
4	3 753	3 756	15,28	106,9	0,00	82,49	-	-	0,00	0,00	-
5	3 360	3 362	16,73	106,9	0,00	81,53	-	-	0,00	0,00	-
6	2 548	2 551	20,28	106,9	0,00	79,14	-	-	0,00	0,00	-
7	2 116	2 119	22,62	106,9	0,00	77,52	-	-	0,00	0,00	-
8	946	954	32,05	106,9	0,00	70,59	-	-	0,00	0,00	-
9	1 153	1 160	29,82	106,9	0,00	72,29	-	-	0,00	0,00	-
Sum			37,75								

- Data undefined due to calculation with octave data

Noise sensitive area: AJ Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (36)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 823	11 823	1,82	106,9	0,00	92,45	-	-	0,00	0,00	-
10	698	709	35,35	106,9	0,00	68,01	-	-	0,00	0,00	-
2	12 163	12 164	1,49	106,9	0,00	92,70	-	-	0,00	0,00	-
3	4 012	4 014	14,41	106,9	0,00	83,07	-	-	0,00	0,00	-
4	3 788	3 790	15,16	106,9	0,00	82,57	-	-	0,00	0,00	-
5	3 389	3 391	16,62	106,9	0,00	81,61	-	-	0,00	0,00	-
6	2 576	2 579	20,14	106,9	0,00	79,23	-	-	0,00	0,00	-
7	2 141	2 145	22,47	106,9	0,00	77,63	-	-	0,00	0,00	-
8	980	988	31,65	106,9	0,00	70,90	-	-	0,00	0,00	-
9	1 155	1 162	29,80	106,9	0,00	72,30	-	-	0,00	0,00	-
Sum			37,95								

- Data undefined due to calculation with octave data

Noise sensitive area: AK Sklypas/40 m saugotina aplinka: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (37)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 911	12 912	0,81	106,9	0,00	93,22	-	-	0,00	0,00	-
10	603	618	36,84	106,9	0,00	66,82	-	-	0,00	0,00	-
2	13 235	13 235	0,53	106,9	0,00	93,43	-	-	0,00	0,00	-
3	5 254	5 256	11,20	106,9	0,00	85,41	-	-	0,00	0,00	-
4	4 978	4 979	11,84	106,9	0,00	84,94	-	-	0,00	0,00	-
5	4 468	4 470	13,11	106,9	0,00	84,01	-	-	0,00	0,00	-
6	3 650	3 653	15,65	106,9	0,00	82,25	-	-	0,00	0,00	-
7	3 184	3 187	17,43	106,9	0,00	81,07	-	-	0,00	0,00	-
8	2 173	2 178	22,28	106,9	0,00	77,76	-	-	0,00	0,00	-
9	1 855	1 860	24,22	106,9	0,00	76,39	-	-	0,00	0,00	-
Sum			37,33								

- Data undefined due to calculation with octave data

Noise sensitive area: AL Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (38)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 933	12 933	0,80	106,9	0,00	93,23	-	-	0,00	0,00	-
10	633	647	36,34	106,9	0,00	67,22	-	-	0,00	0,00	-
2	13 255	13 256	0,52	106,9	0,00	93,45	-	-	0,00	0,00	-
3	5 281	5 282	11,14	106,9	0,00	85,46	-	-	0,00	0,00	-
4	5 003	5 004	11,78	106,9	0,00	84,99	-	-	0,00	0,00	-
5	4 490	4 492	13,06	106,9	0,00	84,05	-	-	0,00	0,00	-
6	3 673	3 675	15,56	106,9	0,00	82,31	-	-	0,00	0,00	-
7	3 206	3 209	17,34	106,9	0,00	81,13	-	-	0,00	0,00	-
8	2 203	2 208	22,11	106,9	0,00	77,88	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Planuojamos VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

...continued from previous page

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
9	1 874	1 879	24,10	106,9	0,00	76,48	-	-	0,00	0,00	-
Sum			36,87								

- Data undefined due to calculation with octave data

Noise sensitive area: AM Sklypas/40 m saugotina aplinka: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (39)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	13 674	13 674	0,16	106,9	0,00	93,72	-	-	0,00	0,00	-
10	1 436	1 441	27,29	106,9	0,00	74,18	-	-	0,00	0,00	-
2	14 021	14 022	-0,12	106,9	0,00	93,94	-	-	0,00	0,00	-
3	5 757	5 759	10,13	106,9	0,00	86,21	-	-	0,00	0,00	-
4	5 604	5 605	10,44	106,9	0,00	85,97	-	-	0,00	0,00	-
5	5 262	5 264	11,18	106,9	0,00	85,43	-	-	0,00	0,00	-
6	4 454	4 456	13,15	106,9	0,00	83,98	-	-	0,00	0,00	-
7	4 022	4 024	14,38	106,9	0,00	83,09	-	-	0,00	0,00	-
8	2 257	2 260	21,81	106,9	0,00	78,08	-	-	0,00	0,00	-
9	2 895	2 897	18,66	106,9	0,00	80,24	-	-	0,00	0,00	-
Sum			29,27								

- Data undefined due to calculation with octave data

Noise sensitive area: AN Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (40)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	13 696	13 697	0,14	106,9	0,00	93,73	-	-	0,00	0,00	-
10	1 461	1 466	27,08	106,9	0,00	74,32	-	-	0,00	0,00	-
2	14 044	14 045	-0,14	106,9	0,00	93,95	-	-	0,00	0,00	-
3	5 778	5 779	10,08	106,9	0,00	86,24	-	-	0,00	0,00	-
4	5 625	5 627	10,40	106,9	0,00	86,01	-	-	0,00	0,00	-
5	5 286	5 287	11,13	106,9	0,00	85,46	-	-	0,00	0,00	-
6	4 478	4 480	13,09	106,9	0,00	84,03	-	-	0,00	0,00	-
7	4 046	4 048	14,30	106,9	0,00	83,14	-	-	0,00	0,00	-
8	2 275	2 279	21,71	106,9	0,00	78,15	-	-	0,00	0,00	-
9	2 920	2 922	18,55	106,9	0,00	80,31	-	-	0,00	0,00	-
Sum			29,11								

- Data undefined due to calculation with octave data

DECIBEL - Assumptions for noise calculation

Calculation: Planuojamos VE

Noise calculation model:
ISO 9613-2:2024 General
Wind speed (at 10 m height):
10,0 m/s
Ground attenuation:
General, Ground factor: 0,7
Meteorological coefficient, C0:
Selected option: Fixed value: 0,0 dB
Type of demand in calculation:
1: WTG noise is compared to demand (DK, DE, SE, NL etc.)
Noise values in calculation:
All noise values are mean values (Lwa) (Normal)
Pure tones:
Fixed penalty added to source noise of WTGs with pure tones
Model: 5,0 dB(A)
Height above ground level, when no value in NSA object:
1,5 m; Don't allow override of model height with height from NSA object
Uncertainty margin:
0,0 dB; Uncertainty margin in NSA has priority
Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:
0,0 dB(A)
Octave data required
Frequency dependent air absorption

63 [dB/km]	125 [dB/km]	250 [dB/km]	500 [dB/km]	1 000 [dB/km]	2 000 [dB/km]	4 000 [dB/km]	8 000 [dB/km]
0,1	0,4	1,0	1,9	3,7	9,7	32,8	117,0

The air absorption is for a temperature of 10,0 degrees C and 70,0 % humidity.

All coordinates are in
Lithuanian TM LKS94-LKS94 (LT)

WTG: VESTAS V172-7.2 7200 172.0 !O!

Noise: Level 0 - Measured - PO7200

Source	Source/Date	Creator	Edited
Manufacturer	2022-07-08	EMD	2022-10-06 14:58

Based on Document no.: 0127-1584 V01.

Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones		Octave data 63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
From other hub height	135,0	10,0	106,9	No	Generic data	88,5	95,5	98,9	101,5	101,3	98,4	93,6	84,1

Noise sensitive area: A Sklypas/40 m saugotina aplinka: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: B Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (2)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: C Sklypas/40 m saugotina aplinka: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (3)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Planuojamos VE

Noise sensitive area: D Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (4)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: E Sklypas/40 m saugotina aplinka: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (5)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: F Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (6)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: G Sklypas/40 m saugotina aplinka: Neturi adreso (7)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: H Gyvenamasis pastatas: Neturi adreso (8)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: I Sklypas/40 m saugotina aplinka: Neturi adreso (9)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: J Gyvenamasis pastatas: Neturi adreso (10)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: K Sklypas/40 m saugotina aplinka: Neturi adreso (11)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: L Gyvenamasis pastatas: Neturi adreso (12)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Planuojamos VE

Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: M Sklypas/40 m saugotina aplinka: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: N Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (14)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: O Sklypas/40 m saugotina aplinka: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav.

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: P Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (16)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: Q Sklypas/40 m saugotina aplinka: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (17)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: R Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (18)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: S Sklypas/40 m saugotina aplinka: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (19)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: T Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (20)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Planuojamos VE

Noise sensitive area: U Sklypas/40 m saugotina aplinka: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (21)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: V Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (22)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: W Sklypas/40 m saugotina aplinka: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (23)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: X Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (24)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: Y Sklypas/40 m saugotina aplinka: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (25)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: Z Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (26)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AA Sklypas/40 m saugotina aplinka: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (27)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AB Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (28)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AC Sklypas/40 m saugotina aplinka: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (29)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Planuojamos VE

Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AD Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (30)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AE Sklypas/40 m saugotina aplinka: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (31)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AF Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (32)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AG Sklypas/40 m saugotina aplinka: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (33)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AH Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (34)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AI Sklypas/40 m saugotina aplinka: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (35)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AJ Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (36)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AK Sklypas/40 m saugotina aplinka: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (37)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Planuojamos VE

Noise sensitive area: AL Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (38)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AM Sklypas/40 m saugotina aplinka: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (39)

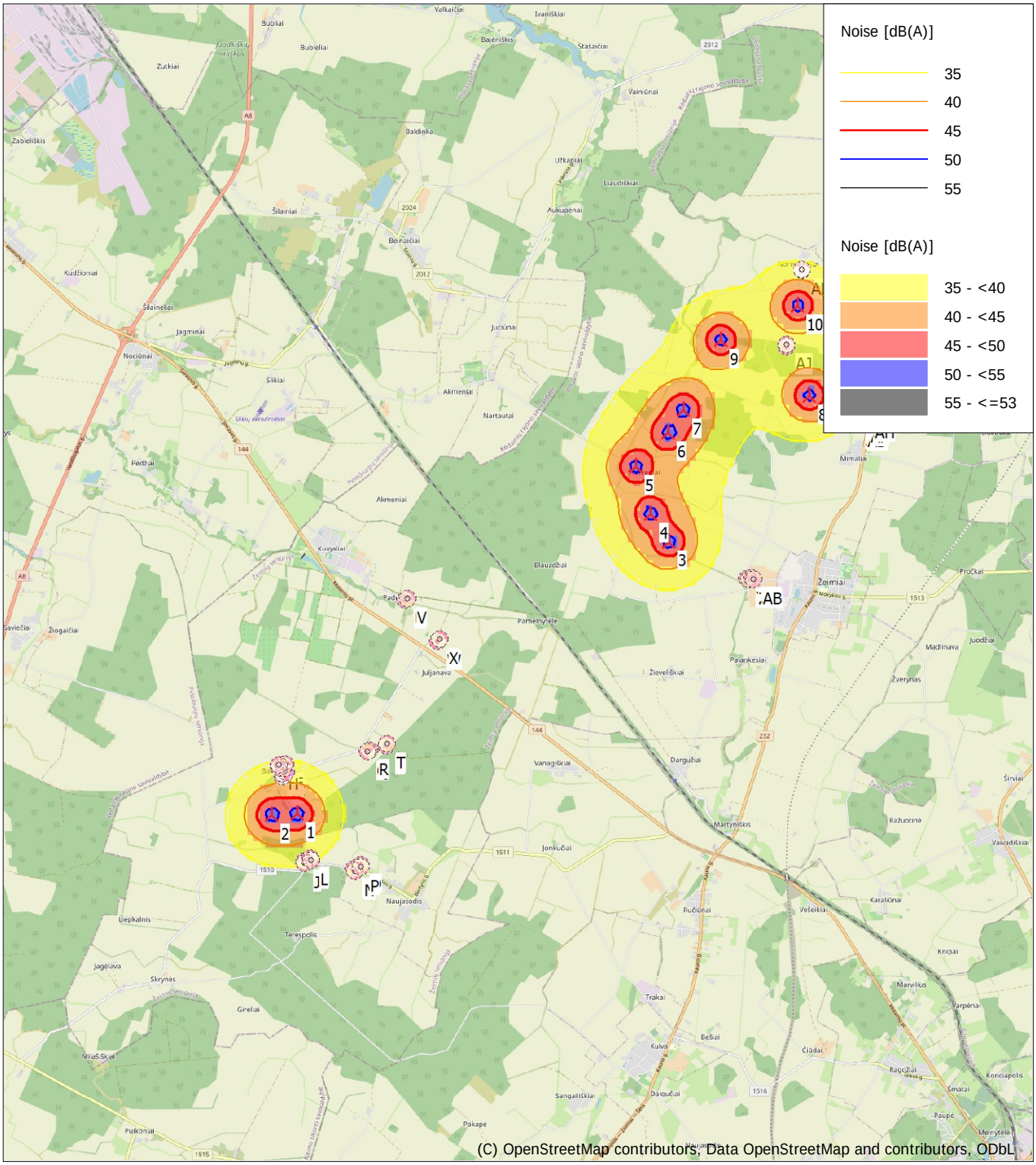
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AN Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (40)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Map 10,0 m/s

Calculation: Planuojamos VE



0 1 2 3 4 km

Map: EMD OpenStreetMap , Print scale 1:100 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 509 297 North: 6 116 588

New WTG Noise sensitive area

Noise calculation model: ISO 9613-2:2024 General. Wind speed: 10,0 m/s
Height above sea level from active line object

Project:

10 VE Jonavos r. triukðmas

Licensed user:

UAB Infraplanas
Inovacijy k. 3, Biruliskiy k.,
LT-54469 Kauno r. sav.

Calculated:

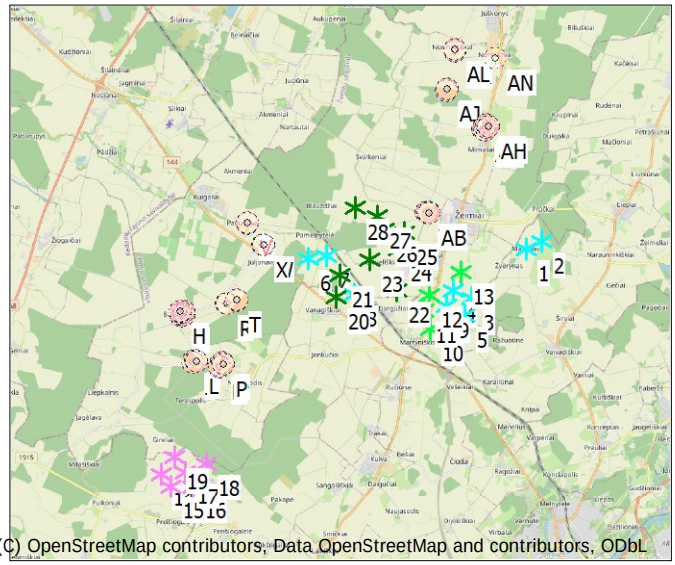
2025-06-12 15:17/4.1.254

DECIBEL - Main Result

Calculation: Foninës VE

Noise calculation model:
ISO 9613-2:2024 General
Wind speed (at 10 m height):
10,0 m/s
Ground attenuation:
General, Ground factor: 0,7
Meteorological coefficient, C0:
Selected option: Fixed value: 0,0 dB
Type of demand in calculation:
1: WTG noise is compared to demand (DK, DE, SE, NL etc.)
Noise values in calculation:
All noise values are mean values (Lwa) (Normal)
Pure tones:
Fixed penalty added to source noise of WTGs with pure tones
Model: 5,0 dB(A)
Height above ground level, when no value in NSA object:
1,5 m; Don't allow override of model height with height from NSA object
Uncertainty margin:
0,0 dB; Uncertainty margin in NSA has priority
Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:
0,0 dB(A)

All coordinates are in
Lithuanian TM LKS94-LKS94 (LT)



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

Scale 1:250 000

Existing WTG Noise sensitive area

WTGs

	Y	X	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Noise data Creator	Name	Wind speed	LwA,ref	
			[m]					[kW]	[m]	[m]			[m/s]	[dB(A)]	
1	516 258	6 115 067	70,0	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
2	516 724	6 115 361	70,0	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
3	514 431	6 113 473	69,2	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
4	513 801	6 113 708	67,7	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
5	514 206	6 112 903	67,5	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
6	508 976	6 114 735	60,0	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
7	509 582	6 114 845	60,0	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
8	510 506	6 113 569	66,9	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
9	513 575	6 113 197	64,7	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
10	513 058	6 112 467	63,6	GE WIND ENERGY 5.5-158 Th...	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	EMD	5.5-158 NRO 104dB	10,0	104,0	g
11	512 838	6 113 059	61,2	GE WIND ENERGY 5.0-158 Th...	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	EMD	5.5-158 NRO 104dB	10,0	104,0	g
12	512 996	6 113 540	63,8	GE WIND ENERGY 5.0-158 Th...	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	EMD	5.5-158 NRO 104dB	10,0	104,0	g
13	514 062	6 114 314	70,0	GE WIND ENERGY 5.0-158 Th...	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	EMD	5.5-158 NRO 104dB	10,0	104,0	g
14	504 125	6 107 635	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
15	504 453	6 107 182	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
16	505 171	6 107 171	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
17	504 923	6 107 664	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
18	505 608	6 107 960	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
19	504 569	6 108 172	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
20	509 897	6 113 484	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
21	510 043	6 114 232	61,7	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
22	511 915	6 113 715	64,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
23	511 063	6 114 701	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
24	512 024	6 115 057	62,7	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
25	512 170	6 115 628	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
26	511 515	6 115 700	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
27	511 319	6 116 162	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
28	510 542	6 116 457	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	

g) Data calculated from data for other wind speed (uncertain)

Calculation Results

Sound level

Noise sensitive area No.	Name	Y	X	Z	Immission height	Demands Noise	Sound level From WTGs	Distance to noise demand	Demands fulfilled ? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[m]	
A	Sklypas/40 m saugotina aplinka: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)	504 811	6 112 812	60,0	1,5	45,0	21,1	4 330	Yes
B	Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (2)	504 817	6 112 855	60,0	1,5	45,0	21,1	4 306	Yes
C	Sklypas/40 m saugotina aplinka: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (3)	504 867	6 112 873	60,0	1,5	45,0	21,2	4 253	Yes
D	Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (4)	504 839	6 112 938	60,0	1,5	45,0	21,1	4 253	Yes
E	Sklypas/40 m saugotina aplinka: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (5)	504 820	6 113 012	60,0	1,5	45,0	21,1	4 241	Yes
F	Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (6)	504 857	6 113 018	60,0	1,5	45,0	21,1	4 205	Yes
G	Sklypas/40 m saugotina aplinka: Neturi adreso (7)	504 751	6 112 953	60,0	1,5	45,0	21,0	4 328	Yes
H	Gyvenamasis pastatas: Neturi adreso (8)	504 749	6 113 003	60,0	1,5	45,0	21,0	4 310	Yes
I	Sklypas/40 m saugotina aplinka: Neturi adreso (9)	505 183	6 111 341	70,0	1,5	45,0	23,1	2 993	Yes
J	Gyvenamasis pastatas: Neturi adreso (10)	505 193	6 111 302	70,0	1,5	45,0	23,2	2 957	Yes
K	Sklypas/40 m saugotina aplinka: Neturi adreso (11)	505 295	6 111 391	64,2	1,5	45,0	23,1	3 066	Yes
L	Gyvenamasis pastatas: Neturi adreso (12)	505 303	6 111 351	63,6	1,5	45,0	23,1	3 029	Yes

To be continued on next page...

DECIBEL - Main Result

Calculation: Foninës VE

...continued from previous page

Noise sensitive area No.	Name	Y	X	Z	Immission height	Demands Noise	Sound level From WTGs	Distance to noise demand	Demands fulfilled ? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[m]	
M	Sklypas/40 m saugotina aplinka: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (13)	506 046	6 111 197	60,0	1,5	45,0	23,6	3 040	Yes
N	Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (14)	506 074	6 111 169	60,0	1,5	45,0	23,6	3 017	Yes
O	Sklypas/40 m saugotina aplinka: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (15)	506 167	6 111 280	60,0	1,5	45,0	23,5	3 142	Yes
P	Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (16)	506 175	6 111 241	60,0	1,5	45,0	23,5	3 105	Yes
Q	Sklypas/40 m saugotina aplinka: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (17)	506 288	6 113 243	60,0	1,5	45,0	23,8	2 818	Yes
R	Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (18)	506 325	6 113 257	60,0	1,5	45,0	23,9	2 779	Yes
S	Sklypas/40 m saugotina aplinka: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (19)	506 612	6 113 334	60,0	1,5	45,0	24,8	2 492	Yes
T	Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (20)	506 632	6 113 377	60,0	1,5	45,0	24,9	2 453	Yes
U	Sklypas/40 m saugotina aplinka: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (21)	506 955	6 115 882	60,0	1,5	45,0	25,7	2 065	Yes
V	Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (22)	506 986	6 115 906	60,0	1,5	45,0	25,8	2 050	Yes
W	Sklypas/40 m saugotina aplinka: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (23)	507 511	6 115 174	60,0	1,5	45,0	29,5	1 275	Yes
X	Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (24)	507 555	6 115 201	60,0	1,5	45,0	29,7	1 240	Yes
Y	Sklypas/40 m saugotina aplinka: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (25)	512 910	6 116 267	63,4	1,5	45,0	33,4	834	Yes
Z	Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (26)	512 944	6 116 258	64,3	1,5	45,0	33,3	854	Yes
AA	Sklypas/40 m saugotina aplinka: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (27)	512 998	6 116 279	66,3	1,5	45,0	32,9	909	Yes
AB	Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (28)	513 024	6 116 250	66,7	1,5	45,0	32,9	912	Yes
AC	Sklypas/40 m saugotina aplinka: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (29)	514 808	6 119 024	70,0	1,5	45,0	22,3	3 877	Yes
AD	Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (30)	514 833	6 118 996	70,0	1,5	45,0	22,4	3 841	Yes
AE	Sklypas/40 m saugotina aplinka: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (31)	514 882	6 119 114	70,0	1,5	45,0	22,1	3 923	Yes
AF	Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (32)	514 878	6 119 076	70,0	1,5	45,0	22,2	3 891	Yes
AG	Sklypas/40 m saugotina aplinka: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (33)	514 932	6 119 175	70,0	1,5	45,0	21,9	3 956	Yes
AH	Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (34)	514 963	6 119 150	70,0	1,5	45,0	22,0	3 920	Yes
AI	Sklypas/40 m saugotina aplinka: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (35)	513 583	6 120 316	70,0	1,5	45,0	20,4	4 580	Yes
AJ	Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (36)	513 588	6 120 356	69,7	1,5	45,0	20,4	4 617	Yes
AK	Sklypas/40 m saugotina aplinka: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (37)	513 847	6 121 627	60,0	1,5	45,0	18,2	5 871	Yes
AL	Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (38)	513 846	6 121 657	60,0	1,5	45,0	18,2	5 898	Yes
AM	Sklypas/40 m saugotina aplinka: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (39)	515 168	6 121 376	70,0	1,5	45,0	18,1	5 954	Yes
AN	Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (40)	515 192	6 121 383	70,0	1,5	45,0	18,1	5 955	Yes

Distances (m)

	WTG																					
NSA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	11669	12185	9645	9036	9397	4588	5187	5746	8774	8256	8032	8219	9374	5223	5643	5654	5150	4918	4647	5131	5422	7163
B	11655	12170	9636	9026	9391	4565	5165	5735	8766	8252	8025	8209	9361	5267	5686	5696	5193	4960	4691	5120	5405	7151
C	11603	12118	9585	8975	9341	4512	5112	5683	8716	8203	7975	8158	9309	5292	5707	5711	5211	4970	4712	5068	5353	7100
D	11618	12132	9609	8997	9369	4511	5113	5703	8742	8234	8002	8181	9327	5352	5770	5778	5276	5038	4775	5088	5364	7120
E	11623	12136	9624	9010	9388	4500	5104	5714	8759	8258	8020	8195	9335	5423	5843	5853	5350	5114	4848	5100	5365	7131
F	11586	12098	9587	8972	9352	4463	5067	5677	8722	8221	7983	8157	9298	5434	5851	5857	5356	5115	4856	5063	5327	7094
G	11702	12215	9696	9083	9457	4586	5189	5789	8829	8323	8089	8268	9412	5356	5780	5799	5293	5067	4786	5174	5445	7206
H	11695	12207	9695	9081	9459	4569	5173	5786	8830	8328	8091	8266	9407	5405	5830	5849	5343	5117	4835	5171	5436	7203
I	11687	12223	9492	8939	9159	5091	5625	5772	8596	7957	7847	8118	9365	3855	4224	4171	3687	3408	3229	5179	5656	7140
J	11690	12227	9492	8940	9156	5110	5642	5778	8595	7952	7846	8119	9368	3820	4187	4132	3649	3368	3192	5186	5667	7143
K	11565	12101	9372	8818	9040	4974	5506	5649	8476	7839	7727	7997	9243	3935	4293	4223	3746	3446	3301	5057	5534	7017
L	11570	12107	9373	8821	9039	4995	5525	5657	8477	7836	7728	8000	9248	3899	4256	4183	3707	3405	3263	5066	5548	7023
M	10923	11463	8690	8153	8338	4595	5081	5053	7792	7127	7044	7336	8602	4048	4321	4121	3708	3267	3367	4480	5020	6388
N	10907	11447	8670	8135	8316	4599	5082	5041	7772	7105	7024	7318	8586	4037	4305	4100	3690	3243	3354	4470	5014	6373
O	10780	11320	8552	8012	8203	4454	4938	4907	7653	6994	6905	7195	8460	4179	4443	4229	3825	3368	3496	4333	4873	6244
P	10787	11327	8554	8017	8203	4479	4960	4918	7656	6993	6908	7199	8466	4149	4410	4193	3791	3330	3465	4346	4890	6252
Q	10137	10651	8148	7529	7927	3075	3664	4231	7289	6816	6554	6716	7849	6012	6334	6175	5745	5328	5356	3618	3884	5648
R	10098	10612	8110	7491	7890	3036	3624	4193	7252	6781	6517	6678	7810	6039	6358	6196	5767	5347	5381	3580	3844	5610
S	9802	10315	7822	7200	7608	2748	3333	3902	6966	6505	6233	6389	7516	6219	6521	6331	5918	5468	5553	3289	3547	5318
T	9775	10287	7801	7178	7590	2709	3296	3879	6947	6491	6215	6367	7490	6267	6569	6377	5965	5514	5600	3267	3517	5295
U	9340	9785	7856	7184	7841	2324	2825	4239	7145	6995	6527	6480	7279	8721	9055	8894	8467	8038	8073	3796	3502	5414
V	9312	9755	7834	7162	7821	2309	2805	4226	7126	6980	6509	6460	7254	8754	9086	8924	8498	8066	8105	3788	3486	5395
W	8749	9217	7127	6460	7071	1530	2097	3399	6379	6173	5733	5724	6608	8266	8559	8340	7945	7462	7597	2924	2702	4640
X	8706	9172	7091	6423	7038	1496	2058	3373	6346	6146	5702	5690	6568	8309	8600	8378	7985	7500	7639	2905	2671	4607
Y	3557	3921	3182	2710	3606	4223	3620	3614	3142	3804	3209	2729	2268	12319	12415	11945	11741	11062	11626	4102	3517	2740
Z	3522	3886	3158	2691	3585	4251	3648	3630	3126	3793	3201	2719	2243	12337	12431	11961	11758	11078	11644	4121	3539	2744
AA	3479	3838	3151	2694	3586	4309	3706	3682	3136	3813	3225	2740	2235	12390	12484	12012	11810	11130	11697	4176	3596	2784
AB	3444	3806	3114	2659	3550	4323	3719	3679	3103	3784	3197	2711	2197	12389	12480	12007	11807	11125	11696	4176	3601	2768
AC	4215	4135	5565	5412	6152	7241	6693	6949	5957	6788	6283	5777	4770	15618	15734	15279	15062	14392	14923	7405	6759	6047
AD	4180	4098	5539	5389	6126	7244	6695	6942	5935	6767	6264	5758	4746	15615	15730	15274	15057	14387	14920	7401	6757	6035
AE	4275	4181	5660	5514	6249	7354	6807	7065	6061	6894	6392	5886	4870	15735	15851	15396	15178	14509	15039	7521	6875	6162
AF	4241	4149	5622	5476	6211	7328	6780	7033	6023	6856	6355	5848	4832	15704	15819	15364	15147	14477	15009	7490	6845	6127
AG	4317	4215	5725	5584	6315	7430	6884	7144	6131	6966	6466	5959	4939	15814	15929	15475	15257	14588	15118	7600	6954	6239
AH	4284	4179	5703	5566	6294	7440	6893	7144	6114	6951	6452	5946	4920	15816	15931	15475	15259	14588	15121	7602	6958	6233
AI	5892	5868	6897	6613	7441	7238	6779	7417	7120	7868	7297	6803	6022	15823	15999	15609	15335	14709	15127	7764	7040	6810
AJ	5926	5899	6936	6653	7480	7272	6815	7455	7160	7908	7337	6843	6062	15858	16035	15646	15371	14746	15162	7802	7077	6850
AK	6990	6896	8176	7921	8733	8441	8013	8725	8436	9196	8629	8133	7318	17042	17235	16863	16575	15962	16347	9052	8318	8146
AL	7019	6924	8206	7951	8763	8465	8038	8752	8466	9225	8659	8163	7348	17066	17259	16888	16599	15987	16371	9079	8344	8175
AM	6404	6214	7939	7790	8529	9082	8596	9095	8334	9157	8639	8133	7149	17632	17788	17374	17120	16477	16935	9492	8794	8325
AN	6406	6215	7948	7801	8539	9103	8617	9113	8346	9170	8652	8146	7160	17653	17808	17393	17140	16497	16956	9511	8814	8340

DECIBEL - Main Result

Calculation: Foninës VE

	WTG					
NSA	23	24	25	26	27	28
A	6532	7556	7881	7301	7321	6793
B	6514	7537	7860	7279	7296	6765
C	6461	7484	7807	7226	7243	6713
D	6470	7492	7811	7226	7239	6703
E	6469	7490	7803	7216	7224	6680
F	6431	7453	7766	7179	7188	6646
G	6551	7573	7888	7302	7311	6770
H	6540	7561	7873	7285	7291	6746
I	6774	7787	8199	7689	7805	7410
J	6784	7797	8211	7703	7821	7430
K	6652	7664	8077	7568	7686	7295
L	6665	7677	8092	7585	7705	7317
M	6121	7117	7560	7086	7244	6921
N	6114	7109	7554	7082	7243	6924
O	5974	6971	7414	6939	7099	6779
P	5990	6985	7430	6958	7120	6804
Q	4994	6017	6348	5777	5818	5333
R	4954	5978	6309	5737	5779	5295
S	4657	5681	6014	5445	5492	5021
T	4625	5649	5979	5408	5453	4978
U	4275	5137	5222	4565	4374	3633
V	4252	5110	5192	4535	4341	3599
W	3584	4515	4682	4039	3935	3292
X	3544	4472	4636	3992	3885	3241
Y	2422	1500	978	1506	1595	2376
Z	2442	1513	998	1534	1628	2411
AA	2497	1563	1054	1592	1683	2463
AB	2500	1557	1057	1606	1708	2491
AC	5721	4847	4301	4680	4514	4980
AD	5716	4839	4294	4678	4515	4987
AE	5837	4964	4418	4796	4628	5090
AF	5806	4930	4385	4766	4601	5067
AG	5916	5042	4496	4875	4705	5164
AH	5918	5040	4496	4879	4713	5178
AI	6156	5486	4897	5059	4732	4914
AJ	6194	5526	4937	5098	4769	4949
AK	7466	6820	6230	6371	6023	6137
AL	7494	6848	6259	6398	6049	6162
AM	7838	7059	6484	6751	6482	6754
AN	7856	7076	6501	6770	6502	6775

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Assumptions

Calculated L(DW) = LWA,ref + K + Dc - (Adiv + Aatm + Agr + Abar + Amisc) - Cmet
(when calculated with ground attenuation, then Dc = Domega)

LWA,ref:	Sound pressure level at WTG
K:	Pure tone
Dc:	Directivity correction
Adiv:	the attenuation due to geometrical divergence
Aatm:	the attenuation due to atmospheric absorption
Agr:	the attenuation due to ground effect
Abar:	the attenuation due to a barrier
Amisc:	the attenuation due to miscellaneous other effects
Cmet:	Meteorological correction

Calculation Results

Noise sensitive area: A Sklypas/40 m saugotina aplinka: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 669	11 671	1,00	107,0	0,00	92,34	-	-	0,00	0,00	-
10	8 256	8 257	2,42	104,0	0,00	89,34	-	-	0,00	0,00	-
11	8 032	8 034	2,74	104,0	0,00	89,10	-	-	0,00	0,00	-
12	8 219	8 220	2,48	104,0	0,00	89,30	-	-	0,00	0,00	-
13	9 374	9 375	0,97	104,0	0,00	90,44	-	-	0,00	0,00	-
14	5 223	5 226	8,72	106,0	0,00	85,36	-	-	0,00	0,00	-
15	5 643	5 645	7,81	106,0	0,00	86,03	-	-	0,00	0,00	-
16	5 654	5 656	7,79	106,0	0,00	86,05	-	-	0,00	0,00	-
17	5 150	5 153	8,88	106,0	0,00	85,24	-	-	0,00	0,00	-
18	4 918	4 921	9,45	106,0	0,00	84,84	-	-	0,00	0,00	-
19	4 647	4 651	10,21	106,0	0,00	84,35	-	-	0,00	0,00	-
2	12 185	12 186	0,53	107,0	0,00	92,72	-	-	0,00	0,00	-
20	5 131	5 134	8,34	104,0	0,00	85,21	-	-	0,00	0,00	-
21	5 422	5 425	7,67	104,0	0,00	85,69	-	-	0,00	0,00	-
22	7 163	7 165	4,29	104,0	0,00	88,10	-	-	0,00	0,00	-
23	6 532	6 535	5,41	104,0	0,00	87,30	-	-	0,00	0,00	-
24	7 556	7 558	3,64	104,0	0,00	88,57	-	-	0,00	0,00	-
25	7 881	7 883	3,14	104,0	0,00	88,93	-	-	0,00	0,00	-
26	7 301	7 303	4,06	104,0	0,00	88,27	-	-	0,00	0,00	-
27	7 321	7 323	4,03	104,0	0,00	88,29	-	-	0,00	0,00	-
28	6 793	6 795	4,93	104,0	0,00	87,64	-	-	0,00	0,00	-
3	9 645	9 646	3,11	107,0	0,00	90,69	-	-	0,00	0,00	-
4	9 036	9 038	3,84	107,0	0,00	90,12	-	-	0,00	0,00	-
5	9 397	9 399	3,40	107,0	0,00	90,46	-	-	0,00	0,00	-
6	4 588	4 591	11,87	107,0	0,00	84,24	-	-	0,00	0,00	-
7	5 187	5 190	10,25	107,0	0,00	85,30	-	-	0,00	0,00	-
8	5 746	5 749	9,03	107,0	0,00	86,19	-	-	0,00	0,00	-
9	8 774	8 776	4,17	107,0	0,00	89,87	-	-	0,00	0,00	-
Sum			21,15								

- Data undefined due to calculation with octave data

Noise sensitive area: B Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (2)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 655	11 656	1,02	107,0	0,00	92,33	-	-	0,00	0,00	-
10	8 252	8 253	2,43	104,0	0,00	89,33	-	-	0,00	0,00	-
11	8 025	8 027	2,75	104,0	0,00	89,09	-	-	0,00	0,00	-
12	8 209	8 211	2,49	104,0	0,00	89,29	-	-	0,00	0,00	-
13	9 361	9 363	0,98	104,0	0,00	90,43	-	-	0,00	0,00	-
14	5 267	5 270	8,62	106,0	0,00	85,44	-	-	0,00	0,00	-
15	5 686	5 689	7,72	106,0	0,00	86,10	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

...continued from previous page

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
16	5 696	5 699	7,70	106,0	0,00	86,12	-	-	0,00	0,00	-
17	5 193	5 196	8,78	106,0	0,00	85,31	-	-	0,00	0,00	-
18	4 960	4 963	9,34	106,0	0,00	84,91	-	-	0,00	0,00	-
19	4 691	4 694	10,09	106,0	0,00	84,43	-	-	0,00	0,00	-
2	12 170	12 171	0,54	107,0	0,00	92,71	-	-	0,00	0,00	-
20	5 120	5 122	8,36	104,0	0,00	85,19	-	-	0,00	0,00	-
21	5 405	5 408	7,71	104,0	0,00	85,66	-	-	0,00	0,00	-
22	7 151	7 153	4,31	104,0	0,00	88,09	-	-	0,00	0,00	-
23	6 514	6 516	5,44	104,0	0,00	87,28	-	-	0,00	0,00	-
24	7 537	7 539	3,67	104,0	0,00	88,55	-	-	0,00	0,00	-
25	7 860	7 862	3,17	104,0	0,00	88,91	-	-	0,00	0,00	-
26	7 279	7 280	4,10	104,0	0,00	88,24	-	-	0,00	0,00	-
27	7 296	7 298	4,07	104,0	0,00	88,26	-	-	0,00	0,00	-
28	6 765	6 767	4,98	104,0	0,00	87,61	-	-	0,00	0,00	-
3	9 636	9 637	3,12	107,0	0,00	90,68	-	-	0,00	0,00	-
4	9 026	9 028	3,85	107,0	0,00	90,11	-	-	0,00	0,00	-
5	9 391	9 393	3,41	107,0	0,00	90,46	-	-	0,00	0,00	-
6	4 565	4 568	11,94	107,0	0,00	84,19	-	-	0,00	0,00	-
7	5 165	5 168	10,30	107,0	0,00	85,27	-	-	0,00	0,00	-
8	5 735	5 737	9,06	107,0	0,00	86,17	-	-	0,00	0,00	-
9	8 766	8 768	4,18	107,0	0,00	89,86	-	-	0,00	0,00	-
Sum			21,13								

- Data undefined due to calculation with octave data

Noise sensitive area: C Sklypas/40 m saugotina aplinka: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (3)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 603	11 604	1,07	107,0	0,00	92,29	-	-	0,00	0,00	-
10	8 203	8 204	2,50	104,0	0,00	89,28	-	-	0,00	0,00	-
11	7 975	7 976	2,82	104,0	0,00	89,04	-	-	0,00	0,00	-
12	8 158	8 159	2,56	104,0	0,00	89,23	-	-	0,00	0,00	-
13	9 309	9 310	1,04	104,0	0,00	90,38	-	-	0,00	0,00	-
14	5 292	5 294	8,56	106,0	0,00	85,48	-	-	0,00	0,00	-
15	5 707	5 710	7,68	106,0	0,00	86,13	-	-	0,00	0,00	-
16	5 711	5 714	7,67	106,0	0,00	86,14	-	-	0,00	0,00	-
17	5 211	5 213	8,75	106,0	0,00	85,34	-	-	0,00	0,00	-
18	4 970	4 973	9,31	106,0	0,00	84,93	-	-	0,00	0,00	-
19	4 712	4 715	10,03	106,0	0,00	84,47	-	-	0,00	0,00	-
2	12 118	12 119	0,59	107,0	0,00	92,67	-	-	0,00	0,00	-
20	5 068	5 071	8,49	104,0	0,00	85,10	-	-	0,00	0,00	-
21	5 353	5 355	7,83	104,0	0,00	85,58	-	-	0,00	0,00	-
22	7 100	7 102	4,40	104,0	0,00	88,03	-	-	0,00	0,00	-
23	6 461	6 463	5,54	104,0	0,00	87,21	-	-	0,00	0,00	-
24	7 484	7 486	3,76	104,0	0,00	88,49	-	-	0,00	0,00	-
25	7 807	7 809	3,25	104,0	0,00	88,85	-	-	0,00	0,00	-
26	7 226	7 227	4,19	104,0	0,00	88,18	-	-	0,00	0,00	-
27	7 243	7 245	4,16	104,0	0,00	88,20	-	-	0,00	0,00	-
28	6 713	6 715	5,08	104,0	0,00	87,54	-	-	0,00	0,00	-
3	9 585	9 586	3,18	107,0	0,00	90,63	-	-	0,00	0,00	-
4	8 975	8 976	3,91	107,0	0,00	90,06	-	-	0,00	0,00	-
5	9 341	9 342	3,47	107,0	0,00	90,41	-	-	0,00	0,00	-
6	4 512	4 515	12,10	107,0	0,00	84,09	-	-	0,00	0,00	-
7	5 112	5 114	10,42	107,0	0,00	85,18	-	-	0,00	0,00	-
8	5 683	5 686	9,17	107,0	0,00	86,10	-	-	0,00	0,00	-
9	8 716	8 717	4,24	107,0	0,00	89,81	-	-	0,00	0,00	-
Sum			21,19								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: D Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (4)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 618	11 619	1,05	107,0	0,00	92,30	-	-	0,00	0,00	-
10	8 234	8 236	2,45	104,0	0,00	89,31	-	-	0,00	0,00	-
11	8 002	8 003	2,79	104,0	0,00	89,06	-	-	0,00	0,00	-
12	8 181	8 182	2,53	104,0	0,00	89,26	-	-	0,00	0,00	-
13	9 327	9 328	1,02	104,0	0,00	90,40	-	-	0,00	0,00	-
14	5 352	5 355	8,43	106,0	0,00	85,58	-	-	0,00	0,00	-
15	5 770	5 773	7,55	106,0	0,00	86,23	-	-	0,00	0,00	-
16	5 778	5 780	7,54	106,0	0,00	86,24	-	-	0,00	0,00	-
17	5 276	5 279	8,60	106,0	0,00	85,45	-	-	0,00	0,00	-
18	5 038	5 041	9,14	106,0	0,00	85,05	-	-	0,00	0,00	-
19	4 775	4 778	9,85	106,0	0,00	84,58	-	-	0,00	0,00	-
2	12 132	12 133	0,58	107,0	0,00	92,68	-	-	0,00	0,00	-
20	5 088	5 091	8,44	104,0	0,00	85,14	-	-	0,00	0,00	-
21	5 364	5 366	7,80	104,0	0,00	85,59	-	-	0,00	0,00	-
22	7 120	7 122	4,36	104,0	0,00	88,05	-	-	0,00	0,00	-
23	6 470	6 472	5,52	104,0	0,00	87,22	-	-	0,00	0,00	-
24	7 492	7 494	3,75	104,0	0,00	88,49	-	-	0,00	0,00	-
25	7 810	7 812	3,24	104,0	0,00	88,86	-	-	0,00	0,00	-
26	7 226	7 228	4,18	104,0	0,00	88,18	-	-	0,00	0,00	-
27	7 239	7 241	4,16	104,0	0,00	88,20	-	-	0,00	0,00	-
28	6 703	6 705	5,10	104,0	0,00	87,53	-	-	0,00	0,00	-
3	9 609	9 610	3,15	107,0	0,00	90,65	-	-	0,00	0,00	-
4	8 997	8 998	3,89	107,0	0,00	90,08	-	-	0,00	0,00	-
5	9 369	9 371	3,43	107,0	0,00	90,44	-	-	0,00	0,00	-
6	4 511	4 514	12,10	107,0	0,00	84,09	-	-	0,00	0,00	-
7	5 113	5 116	10,42	107,0	0,00	85,18	-	-	0,00	0,00	-
8	5 703	5 706	9,12	107,0	0,00	86,13	-	-	0,00	0,00	-
9	8 742	8 743	4,21	107,0	0,00	89,83	-	-	0,00	0,00	-
Sum			21,13								

- Data undefined due to calculation with octave data

Noise sensitive area: E Sklypas/40 m saugotina aplinka: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (5)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 623	11 625	1,05	107,0	0,00	92,31	-	-	0,00	0,00	-
10	8 258	8 259	2,42	104,0	0,00	89,34	-	-	0,00	0,00	-
11	8 020	8 021	2,76	104,0	0,00	89,08	-	-	0,00	0,00	-
12	8 195	8 196	2,51	104,0	0,00	89,27	-	-	0,00	0,00	-
13	9 335	9 336	1,01	104,0	0,00	90,40	-	-	0,00	0,00	-
14	5 423	5 426	8,28	106,0	0,00	85,69	-	-	0,00	0,00	-
15	5 843	5 845	7,41	106,0	0,00	86,34	-	-	0,00	0,00	-
16	5 853	5 855	7,39	106,0	0,00	86,35	-	-	0,00	0,00	-
17	5 350	5 353	8,44	106,0	0,00	85,57	-	-	0,00	0,00	-
18	5 114	5 117	8,97	106,0	0,00	85,18	-	-	0,00	0,00	-
19	4 848	4 851	9,65	106,0	0,00	84,72	-	-	0,00	0,00	-
2	12 136	12 137	0,57	107,0	0,00	92,68	-	-	0,00	0,00	-
20	5 100	5 103	8,41	104,0	0,00	85,16	-	-	0,00	0,00	-
21	5 365	5 367	7,80	104,0	0,00	85,60	-	-	0,00	0,00	-
22	7 131	7 133	4,34	104,0	0,00	88,07	-	-	0,00	0,00	-
23	6 469	6 471	5,53	104,0	0,00	87,22	-	-	0,00	0,00	-
24	7 490	7 492	3,75	104,0	0,00	88,49	-	-	0,00	0,00	-
25	7 803	7 805	3,26	104,0	0,00	88,85	-	-	0,00	0,00	-
26	7 216	7 218	4,20	104,0	0,00	88,17	-	-	0,00	0,00	-
27	7 224	7 225	4,19	104,0	0,00	88,18	-	-	0,00	0,00	-
28	6 680	6 682	5,14	104,0	0,00	87,50	-	-	0,00	0,00	-
3	9 624	9 626	3,13	107,0	0,00	90,67	-	-	0,00	0,00	-
4	9 010	9 011	3,87	107,0	0,00	90,10	-	-	0,00	0,00	-
5	9 388	9 390	3,41	107,0	0,00	90,45	-	-	0,00	0,00	-
6	4 500	4 503	12,13	107,0	0,00	84,07	-	-	0,00	0,00	-
7	5 104	5 106	10,44	107,0	0,00	85,16	-	-	0,00	0,00	-
8	5 714	5 717	9,10	107,0	0,00	86,14	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
9	8 759	8 760	4,19	107,0	0,00	89,85	-	-	0,00	0,00	-
Sum			21,07								

- Data undefined due to calculation with octave data

Noise sensitive area: F Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (6)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 586	11 587	1,08	107,0	0,00	92,28	-	-	0,00	0,00	-
10	8 221	8 223	2,47	104,0	0,00	89,30	-	-	0,00	0,00	-
11	7 983	7 984	2,81	104,0	0,00	89,04	-	-	0,00	0,00	-
12	8 157	8 159	2,56	104,0	0,00	89,23	-	-	0,00	0,00	-
13	9 298	9 299	1,06	104,0	0,00	90,37	-	-	0,00	0,00	-
14	5 434	5 437	8,25	106,0	0,00	85,71	-	-	0,00	0,00	-
15	5 851	5 854	7,39	106,0	0,00	86,35	-	-	0,00	0,00	-
16	5 857	5 859	7,38	106,0	0,00	86,36	-	-	0,00	0,00	-
17	5 356	5 358	8,42	106,0	0,00	85,58	-	-	0,00	0,00	-
18	5 115	5 118	8,96	106,0	0,00	85,18	-	-	0,00	0,00	-
19	4 856	4 859	9,62	106,0	0,00	84,73	-	-	0,00	0,00	-
2	12 098	12 100	0,61	107,0	0,00	92,66	-	-	0,00	0,00	-
20	5 063	5 065	8,50	104,0	0,00	85,09	-	-	0,00	0,00	-
21	5 327	5 330	7,88	104,0	0,00	85,53	-	-	0,00	0,00	-
22	7 094	7 096	4,41	104,0	0,00	88,02	-	-	0,00	0,00	-
23	6 431	6 434	5,60	104,0	0,00	87,17	-	-	0,00	0,00	-
24	7 453	7 455	3,81	104,0	0,00	88,45	-	-	0,00	0,00	-
25	7 766	7 768	3,31	104,0	0,00	88,81	-	-	0,00	0,00	-
26	7 179	7 181	4,26	104,0	0,00	88,12	-	-	0,00	0,00	-
27	7 188	7 190	4,25	104,0	0,00	88,13	-	-	0,00	0,00	-
28	6 646	6 648	5,20	104,0	0,00	87,45	-	-	0,00	0,00	-
3	9 587	9 588	3,18	107,0	0,00	90,63	-	-	0,00	0,00	-
4	8 972	8 974	3,92	107,0	0,00	90,06	-	-	0,00	0,00	-
5	9 352	9 353	3,45	107,0	0,00	90,42	-	-	0,00	0,00	-
6	4 463	4 466	12,24	107,0	0,00	84,00	-	-	0,00	0,00	-
7	5 067	5 070	10,53	107,0	0,00	85,10	-	-	0,00	0,00	-
8	5 677	5 680	9,18	107,0	0,00	86,09	-	-	0,00	0,00	-
9	8 722	8 723	4,23	107,0	0,00	89,81	-	-	0,00	0,00	-
Sum			21,12								

- Data undefined due to calculation with octave data

Noise sensitive area: G Sklypas/40 m saugotina aplinka: Neturi adreso (7)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 702	11 703	0,97	107,0	0,00	92,37	-	-	0,00	0,00	-
10	8 323	8 324	2,33	104,0	0,00	89,41	-	-	0,00	0,00	-
11	8 089	8 091	2,66	104,0	0,00	89,16	-	-	0,00	0,00	-
12	8 268	8 269	2,41	104,0	0,00	89,35	-	-	0,00	0,00	-
13	9 412	9 413	0,92	104,0	0,00	90,47	-	-	0,00	0,00	-
14	5 356	5 359	8,42	106,0	0,00	85,58	-	-	0,00	0,00	-
15	5 780	5 783	7,53	106,0	0,00	86,24	-	-	0,00	0,00	-
16	5 799	5 801	7,50	106,0	0,00	86,27	-	-	0,00	0,00	-
17	5 293	5 296	8,56	106,0	0,00	85,48	-	-	0,00	0,00	-
18	5 067	5 070	9,07	106,0	0,00	85,10	-	-	0,00	0,00	-
19	4 786	4 789	9,82	106,0	0,00	84,60	-	-	0,00	0,00	-
2	12 215	12 216	0,50	107,0	0,00	92,74	-	-	0,00	0,00	-
20	5 174	5 177	8,24	104,0	0,00	85,28	-	-	0,00	0,00	-
21	5 445	5 448	7,62	104,0	0,00	85,72	-	-	0,00	0,00	-
22	7 206	7 208	4,22	104,0	0,00	88,16	-	-	0,00	0,00	-
23	6 551	6 553	5,37	104,0	0,00	87,33	-	-	0,00	0,00	-
24	7 573	7 575	3,62	104,0	0,00	88,59	-	-	0,00	0,00	-
25	7 888	7 890	3,12	104,0	0,00	88,94	-	-	0,00	0,00	-
26	7 302	7 304	4,06	104,0	0,00	88,27	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
27	7 311	7 313	4,04	104,0	0,00	88,28	-	-	0,00	0,00	-
28	6 770	6 772	4,98	104,0	0,00	87,61	-	-	0,00	0,00	-
3	9 696	9 697	3,05	107,0	0,00	90,73	-	-	0,00	0,00	-
4	9 083	9 085	3,78	107,0	0,00	90,17	-	-	0,00	0,00	-
5	9 457	9 459	3,33	107,0	0,00	90,52	-	-	0,00	0,00	-
6	4 586	4 589	11,87	107,0	0,00	84,23	-	-	0,00	0,00	-
7	5 189	5 192	10,24	107,0	0,00	85,31	-	-	0,00	0,00	-
8	5 789	5 792	8,95	107,0	0,00	86,26	-	-	0,00	0,00	-
9	8 829	8 831	4,10	107,0	0,00	89,92	-	-	0,00	0,00	-
Sum			21,01								

- Data undefined due to calculation with octave data

Noise sensitive area: H Gyvenamasis pastatas: Neturi adreso (8)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 695	11 696	0,98	107,0	0,00	92,36	-	-	0,00	0,00	-
10	8 328	8 329	2,32	104,0	0,00	89,41	-	-	0,00	0,00	-
11	8 091	8 092	2,66	104,0	0,00	89,16	-	-	0,00	0,00	-
12	8 266	8 268	2,41	104,0	0,00	89,35	-	-	0,00	0,00	-
13	9 407	9 408	0,93	104,0	0,00	90,47	-	-	0,00	0,00	-
14	5 405	5 408	8,31	106,0	0,00	85,66	-	-	0,00	0,00	-
15	5 830	5 832	7,44	106,0	0,00	86,32	-	-	0,00	0,00	-
16	5 849	5 851	7,40	106,0	0,00	86,34	-	-	0,00	0,00	-
17	5 343	5 346	8,45	106,0	0,00	85,56	-	-	0,00	0,00	-
18	5 117	5 120	8,96	106,0	0,00	85,18	-	-	0,00	0,00	-
19	4 835	4 839	9,68	106,0	0,00	84,69	-	-	0,00	0,00	-
2	12 207	12 209	0,51	107,0	0,00	92,73	-	-	0,00	0,00	-
20	5 171	5 174	8,24	104,0	0,00	85,28	-	-	0,00	0,00	-
21	5 436	5 438	7,64	104,0	0,00	85,71	-	-	0,00	0,00	-
22	7 203	7 205	4,22	104,0	0,00	88,15	-	-	0,00	0,00	-
23	6 540	6 542	5,40	104,0	0,00	87,31	-	-	0,00	0,00	-
24	7 561	7 563	3,64	104,0	0,00	88,57	-	-	0,00	0,00	-
25	7 873	7 875	3,15	104,0	0,00	88,92	-	-	0,00	0,00	-
26	7 285	7 287	4,09	104,0	0,00	88,25	-	-	0,00	0,00	-
27	7 291	7 293	4,08	104,0	0,00	88,26	-	-	0,00	0,00	-
28	6 746	6 748	5,02	104,0	0,00	87,58	-	-	0,00	0,00	-
3	9 695	9 697	3,05	107,0	0,00	90,73	-	-	0,00	0,00	-
4	9 081	9 083	3,78	107,0	0,00	90,16	-	-	0,00	0,00	-
5	9 459	9 461	3,33	107,0	0,00	90,52	-	-	0,00	0,00	-
6	4 569	4 572	11,93	107,0	0,00	84,20	-	-	0,00	0,00	-
7	5 173	5 176	10,28	107,0	0,00	85,28	-	-	0,00	0,00	-
8	5 786	5 788	8,95	107,0	0,00	86,25	-	-	0,00	0,00	-
9	8 830	8 832	4,10	107,0	0,00	89,92	-	-	0,00	0,00	-
Sum			20,98								

- Data undefined due to calculation with octave data

Noise sensitive area: I Sklypas/40 m saugotina aplinka: Neturi adreso (9)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 687	11 688	0,99	107,0	0,00	92,36	-	-	0,00	0,00	-
10	7 957	7 958	2,85	104,0	0,00	89,02	-	-	0,00	0,00	-
11	7 847	7 848	3,01	104,0	0,00	88,90	-	-	0,00	0,00	-
12	8 118	8 119	2,62	104,0	0,00	89,19	-	-	0,00	0,00	-
13	9 365	9 367	0,98	104,0	0,00	90,43	-	-	0,00	0,00	-
14	3 855	3 858	12,75	106,0	0,00	82,73	-	-	0,00	0,00	-
15	4 224	4 227	11,51	106,0	0,00	83,52	-	-	0,00	0,00	-
16	4 171	4 174	11,68	106,0	0,00	83,41	-	-	0,00	0,00	-
17	3 687	3 691	13,36	106,0	0,00	82,34	-	-	0,00	0,00	-
18	3 408	3 412	14,44	106,0	0,00	81,66	-	-	0,00	0,00	-
19	3 229	3 233	15,18	106,0	0,00	81,19	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
2	12 223	12 225	0,49	107,0	0,00	92,74	-	-	0,00	0,00	-
20	5 179	5 182	8,23	104,0	0,00	85,29	-	-	0,00	0,00	-
21	5 656	5 658	7,16	104,0	0,00	86,05	-	-	0,00	0,00	-
22	7 140	7 141	4,33	104,0	0,00	88,08	-	-	0,00	0,00	-
23	6 774	6 775	4,97	104,0	0,00	87,62	-	-	0,00	0,00	-
24	7 787	7 788	3,28	104,0	0,00	88,83	-	-	0,00	0,00	-
25	8 199	8 200	2,66	104,0	0,00	89,28	-	-	0,00	0,00	-
26	7 689	7 690	3,43	104,0	0,00	88,72	-	-	0,00	0,00	-
27	7 805	7 806	3,25	104,0	0,00	88,85	-	-	0,00	0,00	-
28	7 410	7 412	3,88	104,0	0,00	88,40	-	-	0,00	0,00	-
3	9 492	9 494	3,29	107,0	0,00	90,55	-	-	0,00	0,00	-
4	8 939	8 940	3,96	107,0	0,00	90,03	-	-	0,00	0,00	-
5	9 159	9 160	3,69	107,0	0,00	90,24	-	-	0,00	0,00	-
6	5 091	5 093	10,47	107,0	0,00	85,14	-	-	0,00	0,00	-
7	5 625	5 627	9,29	107,0	0,00	86,01	-	-	0,00	0,00	-
8	5 772	5 774	8,98	107,0	0,00	86,23	-	-	0,00	0,00	-
9	8 596	8 598	4,40	107,0	0,00	89,69	-	-	0,00	0,00	-
Sum			23,12								

- Data undefined due to calculation with octave data

Noise sensitive area: J Gyvenamasis pastatas: Neturi adreso (10)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 690	11 691	0,98	107,0	0,00	92,36	-	-	0,00	0,00	-
10	7 952	7 954	2,86	104,0	0,00	89,01	-	-	0,00	0,00	-
11	7 846	7 847	3,01	104,0	0,00	88,89	-	-	0,00	0,00	-
12	8 119	8 120	2,62	104,0	0,00	89,19	-	-	0,00	0,00	-
13	9 368	9 370	0,97	104,0	0,00	90,43	-	-	0,00	0,00	-
14	3 820	3 824	12,88	106,0	0,00	82,65	-	-	0,00	0,00	-
15	4 187	4 190	11,63	106,0	0,00	83,44	-	-	0,00	0,00	-
16	4 132	4 135	11,81	106,0	0,00	83,33	-	-	0,00	0,00	-
17	3 649	3 653	13,51	106,0	0,00	82,25	-	-	0,00	0,00	-
18	3 368	3 372	14,60	106,0	0,00	81,56	-	-	0,00	0,00	-
19	3 192	3 197	15,34	106,0	0,00	81,09	-	-	0,00	0,00	-
2	12 227	12 228	0,49	107,0	0,00	92,75	-	-	0,00	0,00	-
20	5 186	5 189	8,21	104,0	0,00	85,30	-	-	0,00	0,00	-
21	5 667	5 670	7,13	104,0	0,00	86,07	-	-	0,00	0,00	-
22	7 143	7 145	4,32	104,0	0,00	88,08	-	-	0,00	0,00	-
23	6 784	6 786	4,95	104,0	0,00	87,63	-	-	0,00	0,00	-
24	7 797	7 798	3,27	104,0	0,00	88,84	-	-	0,00	0,00	-
25	8 211	8 212	2,64	104,0	0,00	89,29	-	-	0,00	0,00	-
26	7 703	7 704	3,41	104,0	0,00	88,73	-	-	0,00	0,00	-
27	7 821	7 823	3,23	104,0	0,00	88,87	-	-	0,00	0,00	-
28	7 430	7 432	3,85	104,0	0,00	88,42	-	-	0,00	0,00	-
3	9 492	9 493	3,29	107,0	0,00	90,55	-	-	0,00	0,00	-
4	8 940	8 941	3,96	107,0	0,00	90,03	-	-	0,00	0,00	-
5	9 156	9 157	3,69	107,0	0,00	90,24	-	-	0,00	0,00	-
6	5 110	5 112	10,43	107,0	0,00	85,17	-	-	0,00	0,00	-
7	5 642	5 644	9,25	107,0	0,00	86,03	-	-	0,00	0,00	-
8	5 778	5 780	8,97	107,0	0,00	86,24	-	-	0,00	0,00	-
9	8 595	8 597	4,40	107,0	0,00	89,69	-	-	0,00	0,00	-
Sum			23,21								

- Data undefined due to calculation with octave data

Noise sensitive area: K Sklypas/40 m saugotina aplinka: Neturi adreso (11)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 565	11 566	1,10	107,0	0,00	92,26	-	-	0,00	0,00	-
10	7 839	7 840	3,02	104,0	0,00	88,89	-	-	0,00	0,00	-
11	7 727	7 728	3,19	104,0	0,00	88,76	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
12	7 997	7 998	2,79	104,0	0,00	89,06	-	-	0,00	0,00	-
13	9 243	9 245	1,13	104,0	0,00	90,32	-	-	0,00	0,00	-
14	3 935	3 939	12,47	106,0	0,00	82,91	-	-	0,00	0,00	-
15	4 293	4 297	11,28	106,0	0,00	83,66	-	-	0,00	0,00	-
16	4 223	4 226	11,51	106,0	0,00	83,52	-	-	0,00	0,00	-
17	3 746	3 750	13,14	106,0	0,00	82,48	-	-	0,00	0,00	-
18	3 446	3 450	14,29	106,0	0,00	81,76	-	-	0,00	0,00	-
19	3 301	3 305	14,88	106,0	0,00	81,38	-	-	0,00	0,00	-
2	12 101	12 102	0,60	107,0	0,00	92,66	-	-	0,00	0,00	-
20	5 057	5 059	8,52	104,0	0,00	85,08	-	-	0,00	0,00	-
21	5 534	5 537	7,42	104,0	0,00	85,86	-	-	0,00	0,00	-
22	7 017	7 019	4,54	104,0	0,00	87,93	-	-	0,00	0,00	-
23	6 652	6 654	5,19	104,0	0,00	87,46	-	-	0,00	0,00	-
24	7 664	7 666	3,47	104,0	0,00	88,69	-	-	0,00	0,00	-
25	8 077	8 079	2,84	104,0	0,00	89,15	-	-	0,00	0,00	-
26	7 568	7 570	3,62	104,0	0,00	88,58	-	-	0,00	0,00	-
27	7 686	7 688	3,44	104,0	0,00	88,72	-	-	0,00	0,00	-
28	7 295	7 297	4,07	104,0	0,00	88,26	-	-	0,00	0,00	-
3	9 372	9 374	3,43	107,0	0,00	90,44	-	-	0,00	0,00	-
4	8 818	8 819	4,11	107,0	0,00	89,91	-	-	0,00	0,00	-
5	9 040	9 042	3,83	107,0	0,00	90,13	-	-	0,00	0,00	-
6	4 974	4 977	10,77	107,0	0,00	84,94	-	-	0,00	0,00	-
7	5 506	5 509	9,54	107,0	0,00	85,82	-	-	0,00	0,00	-
8	5 649	5 651	9,24	107,0	0,00	86,04	-	-	0,00	0,00	-
9	8 476	8 478	4,55	107,0	0,00	89,57	-	-	0,00	0,00	-
Sum			23,07								

- Data undefined due to calculation with octave data

Noise sensitive area: L Gyvenamasis pastatas: Neturi adreso (12)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 570	11 572	1,10	107,0	0,00	92,27	-	-	0,00	0,00	-
10	7 836	7 838	3,03	104,0	0,00	88,88	-	-	0,00	0,00	-
11	7 728	7 729	3,19	104,0	0,00	88,76	-	-	0,00	0,00	-
12	8 000	8 001	2,79	104,0	0,00	89,06	-	-	0,00	0,00	-
13	9 248	9 250	1,12	104,0	0,00	90,32	-	-	0,00	0,00	-
14	3 899	3 903	12,60	106,0	0,00	82,83	-	-	0,00	0,00	-
15	4 256	4 259	11,40	106,0	0,00	83,59	-	-	0,00	0,00	-
16	4 183	4 187	11,64	106,0	0,00	83,44	-	-	0,00	0,00	-
17	3 707	3 711	13,29	106,0	0,00	82,39	-	-	0,00	0,00	-
18	3 405	3 410	14,45	106,0	0,00	81,65	-	-	0,00	0,00	-
19	3 263	3 268	15,04	106,0	0,00	81,29	-	-	0,00	0,00	-
2	12 107	12 108	0,60	107,0	0,00	92,66	-	-	0,00	0,00	-
20	5 066	5 069	8,49	104,0	0,00	85,10	-	-	0,00	0,00	-
21	5 548	5 550	7,39	104,0	0,00	85,89	-	-	0,00	0,00	-
22	7 023	7 025	4,53	104,0	0,00	87,93	-	-	0,00	0,00	-
23	6 665	6 667	5,17	104,0	0,00	87,48	-	-	0,00	0,00	-
24	7 677	7 678	3,45	104,0	0,00	88,71	-	-	0,00	0,00	-
25	8 092	8 093	2,82	104,0	0,00	89,16	-	-	0,00	0,00	-
26	7 585	7 586	3,60	104,0	0,00	88,60	-	-	0,00	0,00	-
27	7 705	7 706	3,41	104,0	0,00	88,74	-	-	0,00	0,00	-
28	7 317	7 319	4,03	104,0	0,00	88,29	-	-	0,00	0,00	-
3	9 373	9 375	3,43	107,0	0,00	90,44	-	-	0,00	0,00	-
4	8 821	8 822	4,11	107,0	0,00	89,91	-	-	0,00	0,00	-
5	9 039	9 041	3,83	107,0	0,00	90,12	-	-	0,00	0,00	-
6	4 995	4 998	10,72	107,0	0,00	84,98	-	-	0,00	0,00	-
7	5 525	5 528	9,50	107,0	0,00	85,85	-	-	0,00	0,00	-
8	5 657	5 660	9,22	107,0	0,00	86,06	-	-	0,00	0,00	-
9	8 477	8 479	4,55	107,0	0,00	89,57	-	-	0,00	0,00	-
Sum			23,15								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: M Sklypas/40 m saugotina aplinka: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (13)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	10 923	10 924	1,73	107,0	0,00	91,77	-	-	0,00	0,00	-
10	7 127	7 129	4,13	104,0	0,00	88,06	-	-	0,00	0,00	-
11	7 044	7 046	4,27	104,0	0,00	87,96	-	-	0,00	0,00	-
12	7 336	7 337	3,80	104,0	0,00	88,31	-	-	0,00	0,00	-
13	8 602	8 604	1,95	104,0	0,00	89,69	-	-	0,00	0,00	-
14	4 048	4 052	12,09	106,0	0,00	83,15	-	-	0,00	0,00	-
15	4 321	4 324	11,20	106,0	0,00	83,72	-	-	0,00	0,00	-
16	4 121	4 125	11,84	106,0	0,00	83,31	-	-	0,00	0,00	-
17	3 708	3 712	13,28	106,0	0,00	82,39	-	-	0,00	0,00	-
18	3 267	3 272	15,02	106,0	0,00	81,30	-	-	0,00	0,00	-
19	3 367	3 372	14,61	106,0	0,00	81,56	-	-	0,00	0,00	-
2	11 463	11 465	1,20	107,0	0,00	92,19	-	-	0,00	0,00	-
20	4 480	4 483	10,13	104,0	0,00	84,03	-	-	0,00	0,00	-
21	5 020	5 022	8,61	104,0	0,00	85,02	-	-	0,00	0,00	-
22	6 388	6 390	5,68	104,0	0,00	87,11	-	-	0,00	0,00	-
23	6 121	6 123	6,20	104,0	0,00	86,74	-	-	0,00	0,00	-
24	7 117	7 119	4,37	104,0	0,00	88,05	-	-	0,00	0,00	-
25	7 560	7 562	3,64	104,0	0,00	88,57	-	-	0,00	0,00	-
26	7 086	7 088	4,42	104,0	0,00	88,01	-	-	0,00	0,00	-
27	7 244	7 246	4,15	104,0	0,00	88,20	-	-	0,00	0,00	-
28	6 921	6 923	4,71	104,0	0,00	87,81	-	-	0,00	0,00	-
3	8 690	8 692	4,27	107,0	0,00	89,78	-	-	0,00	0,00	-
4	8 153	8 155	4,99	107,0	0,00	89,23	-	-	0,00	0,00	-
5	8 338	8 340	4,74	107,0	0,00	89,42	-	-	0,00	0,00	-
6	4 595	4 598	11,85	107,0	0,00	84,25	-	-	0,00	0,00	-
7	5 081	5 084	10,49	107,0	0,00	85,12	-	-	0,00	0,00	-
8	5 053	5 055	10,56	107,0	0,00	85,08	-	-	0,00	0,00	-
9	7 792	7 793	5,51	107,0	0,00	88,83	-	-	0,00	0,00	-
Sum			23,57								

- Data undefined due to calculation with octave data

Noise sensitive area: N Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (14)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	10 907	10 908	1,75	107,0	0,00	91,75	-	-	0,00	0,00	-
10	7 105	7 107	4,17	104,0	0,00	88,03	-	-	0,00	0,00	-
11	7 024	7 026	4,30	104,0	0,00	87,93	-	-	0,00	0,00	-
12	7 318	7 320	3,82	104,0	0,00	88,29	-	-	0,00	0,00	-
13	8 586	8 588	1,97	104,0	0,00	89,68	-	-	0,00	0,00	-
14	4 037	4 041	12,12	106,0	0,00	83,13	-	-	0,00	0,00	-
15	4 305	4 308	11,25	106,0	0,00	83,69	-	-	0,00	0,00	-
16	4 100	4 103	11,91	106,0	0,00	83,26	-	-	0,00	0,00	-
17	3 690	3 694	13,35	106,0	0,00	82,35	-	-	0,00	0,00	-
18	3 243	3 248	15,12	106,0	0,00	81,23	-	-	0,00	0,00	-
19	3 354	3 359	14,66	106,0	0,00	81,52	-	-	0,00	0,00	-
2	11 447	11 449	1,21	107,0	0,00	92,18	-	-	0,00	0,00	-
20	4 470	4 473	10,16	104,0	0,00	84,01	-	-	0,00	0,00	-
21	5 014	5 017	8,62	104,0	0,00	85,01	-	-	0,00	0,00	-
22	6 373	6 375	5,71	104,0	0,00	87,09	-	-	0,00	0,00	-
23	6 114	6 116	6,21	104,0	0,00	86,73	-	-	0,00	0,00	-
24	7 109	7 111	4,38	104,0	0,00	88,04	-	-	0,00	0,00	-
25	7 554	7 556	3,65	104,0	0,00	88,57	-	-	0,00	0,00	-
26	7 082	7 084	4,43	104,0	0,00	88,01	-	-	0,00	0,00	-
27	7 243	7 245	4,16	104,0	0,00	88,20	-	-	0,00	0,00	-
28	6 924	6 926	4,70	104,0	0,00	87,81	-	-	0,00	0,00	-
3	8 670	8 672	4,30	107,0	0,00	89,76	-	-	0,00	0,00	-
4	8 135	8 137	5,02	107,0	0,00	89,21	-	-	0,00	0,00	-
5	8 316	8 318	4,77	107,0	0,00	89,40	-	-	0,00	0,00	-
6	4 599	4 601	11,84	107,0	0,00	84,26	-	-	0,00	0,00	-
7	5 082	5 085	10,49	107,0	0,00	85,13	-	-	0,00	0,00	-
8	5 041	5 044	10,59	107,0	0,00	85,06	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
9	7 772	7 774	5,54	107,0	0,00	88,81	-	-	0,00	0,00	-
Sum			23,62								

- Data undefined due to calculation with octave data

Noise sensitive area: O Sklypas/40 m saugotina aplinka: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (15)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	10 780	10 782	1,88	107,0	0,00	91,65	-	-	0,00	0,00	-
10	6 994	6 996	4,35	104,0	0,00	87,90	-	-	0,00	0,00	-
11	6 905	6 907	4,50	104,0	0,00	87,79	-	-	0,00	0,00	-
12	7 195	7 196	4,02	104,0	0,00	88,14	-	-	0,00	0,00	-
13	8 460	8 461	2,14	104,0	0,00	89,55	-	-	0,00	0,00	-
14	4 179	4 183	11,65	106,0	0,00	83,43	-	-	0,00	0,00	-
15	4 443	4 446	10,82	106,0	0,00	83,96	-	-	0,00	0,00	-
16	4 229	4 233	11,49	106,0	0,00	83,53	-	-	0,00	0,00	-
17	3 825	3 829	12,86	106,0	0,00	82,66	-	-	0,00	0,00	-
18	3 368	3 372	14,61	106,0	0,00	81,56	-	-	0,00	0,00	-
19	3 496	3 500	14,09	106,0	0,00	81,88	-	-	0,00	0,00	-
2	11 320	11 322	1,34	107,0	0,00	92,08	-	-	0,00	0,00	-
20	4 333	4 336	10,58	104,0	0,00	83,74	-	-	0,00	0,00	-
21	4 873	4 876	9,00	104,0	0,00	84,76	-	-	0,00	0,00	-
22	6 244	6 246	5,96	104,0	0,00	86,91	-	-	0,00	0,00	-
23	5 974	5 976	6,49	104,0	0,00	86,53	-	-	0,00	0,00	-
24	6 971	6 973	4,62	104,0	0,00	87,87	-	-	0,00	0,00	-
25	7 414	7 415	3,87	104,0	0,00	88,40	-	-	0,00	0,00	-
26	6 939	6 941	4,68	104,0	0,00	87,83	-	-	0,00	0,00	-
27	7 099	7 101	4,40	104,0	0,00	88,03	-	-	0,00	0,00	-
28	6 779	6 781	4,96	104,0	0,00	87,63	-	-	0,00	0,00	-
3	8 552	8 553	4,45	107,0	0,00	89,64	-	-	0,00	0,00	-
4	8 012	8 014	5,19	107,0	0,00	89,08	-	-	0,00	0,00	-
5	8 203	8 205	4,92	107,0	0,00	89,28	-	-	0,00	0,00	-
6	4 454	4 457	12,27	107,0	0,00	83,98	-	-	0,00	0,00	-
7	4 938	4 940	10,87	107,0	0,00	84,88	-	-	0,00	0,00	-
8	4 907	4 910	10,96	107,0	0,00	84,82	-	-	0,00	0,00	-
9	7 653	7 655	5,71	107,0	0,00	88,68	-	-	0,00	0,00	-
Sum			23,50								

- Data undefined due to calculation with octave data

Noise sensitive area: P Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (16)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	10 787	10 788	1,87	107,0	0,00	91,66	-	-	0,00	0,00	-
10	6 993	6 994	4,36	104,0	0,00	87,89	-	-	0,00	0,00	-
11	6 908	6 910	4,50	104,0	0,00	87,79	-	-	0,00	0,00	-
12	7 199	7 201	4,01	104,0	0,00	88,15	-	-	0,00	0,00	-
13	8 466	8 468	2,13	104,0	0,00	89,56	-	-	0,00	0,00	-
14	4 149	4 153	11,75	106,0	0,00	83,37	-	-	0,00	0,00	-
15	4 410	4 414	10,92	106,0	0,00	83,90	-	-	0,00	0,00	-
16	4 193	4 197	11,61	106,0	0,00	83,46	-	-	0,00	0,00	-
17	3 791	3 795	12,98	106,0	0,00	82,58	-	-	0,00	0,00	-
18	3 330	3 335	14,76	106,0	0,00	81,46	-	-	0,00	0,00	-
19	3 465	3 469	14,22	106,0	0,00	81,80	-	-	0,00	0,00	-
2	11 327	11 328	1,33	107,0	0,00	92,08	-	-	0,00	0,00	-
20	4 346	4 350	10,54	104,0	0,00	83,77	-	-	0,00	0,00	-
21	4 890	4 893	8,96	104,0	0,00	84,79	-	-	0,00	0,00	-
22	6 252	6 254	5,94	104,0	0,00	86,92	-	-	0,00	0,00	-
23	5 990	5 992	6,46	104,0	0,00	86,55	-	-	0,00	0,00	-
24	6 985	6 987	4,60	104,0	0,00	87,89	-	-	0,00	0,00	-
25	7 430	7 432	3,85	104,0	0,00	88,42	-	-	0,00	0,00	-
26	6 958	6 960	4,64	104,0	0,00	87,85	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
27	7 120	7 122	4,36	104,0	0,00	88,05	-	-	0,00	0,00	-
28	6 804	6 806	4,91	104,0	0,00	87,66	-	-	0,00	0,00	-
3	8 554	8 556	4,45	107,0	0,00	89,65	-	-	0,00	0,00	-
4	8 017	8 019	5,18	107,0	0,00	89,08	-	-	0,00	0,00	-
5	8 203	8 205	4,92	107,0	0,00	89,28	-	-	0,00	0,00	-
6	4 479	4 482	12,20	107,0	0,00	84,03	-	-	0,00	0,00	-
7	4 960	4 963	10,81	107,0	0,00	84,92	-	-	0,00	0,00	-
8	4 918	4 921	10,93	107,0	0,00	84,84	-	-	0,00	0,00	-
9	7 656	7 658	5,71	107,0	0,00	88,68	-	-	0,00	0,00	-
Sum			23,54								

- Data undefined due to calculation with octave data

Noise sensitive area: Q Sklypas/40 m saugotina aplinka: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (17)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	10 137	10 139	2,56	107,0	0,00	91,12	-	-	0,00	0,00	-
10	6 816	6 817	4,66	104,0	0,00	87,67	-	-	0,00	0,00	-
11	6 554	6 556	5,12	104,0	0,00	87,33	-	-	0,00	0,00	-
12	6 716	6 718	4,83	104,0	0,00	87,54	-	-	0,00	0,00	-
13	7 849	7 851	3,01	104,0	0,00	88,90	-	-	0,00	0,00	-
14	6 012	6 015	7,08	106,0	0,00	86,58	-	-	0,00	0,00	-
15	6 334	6 337	6,48	106,0	0,00	87,04	-	-	0,00	0,00	-
16	6 175	6 178	6,77	106,0	0,00	86,82	-	-	0,00	0,00	-
17	5 745	5 748	7,61	106,0	0,00	86,19	-	-	0,00	0,00	-
18	5 328	5 331	8,48	106,0	0,00	85,54	-	-	0,00	0,00	-
19	5 356	5 359	8,42	106,0	0,00	85,58	-	-	0,00	0,00	-
2	10 651	10 652	2,01	107,0	0,00	91,55	-	-	0,00	0,00	-
20	3 618	3 621	12,98	104,0	0,00	82,18	-	-	0,00	0,00	-
21	3 884	3 887	12,04	104,0	0,00	82,79	-	-	0,00	0,00	-
22	5 648	5 650	7,18	104,0	0,00	86,04	-	-	0,00	0,00	-
23	4 994	4 996	8,68	104,0	0,00	84,97	-	-	0,00	0,00	-
24	6 017	6 019	6,41	104,0	0,00	86,59	-	-	0,00	0,00	-
25	6 348	6 350	5,76	104,0	0,00	87,06	-	-	0,00	0,00	-
26	5 777	5 779	6,90	104,0	0,00	86,24	-	-	0,00	0,00	-
27	5 818	5 820	6,82	104,0	0,00	86,30	-	-	0,00	0,00	-
28	5 333	5 335	7,87	104,0	0,00	85,54	-	-	0,00	0,00	-
3	8 148	8 150	5,00	107,0	0,00	89,22	-	-	0,00	0,00	-
4	7 529	7 531	5,90	107,0	0,00	88,54	-	-	0,00	0,00	-
5	7 927	7 929	5,31	107,0	0,00	88,98	-	-	0,00	0,00	-
6	3 075	3 079	17,31	107,0	0,00	80,77	-	-	0,00	0,00	-
7	3 664	3 667	14,93	107,0	0,00	82,29	-	-	0,00	0,00	-
8	4 231	4 235	12,97	107,0	0,00	83,54	-	-	0,00	0,00	-
9	7 289	7 291	6,27	107,0	0,00	88,26	-	-	0,00	0,00	-
Sum			23,81								

- Data undefined due to calculation with octave data

Noise sensitive area: R Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (18)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	10 098	10 100	2,60	107,0	0,00	91,09	-	-	0,00	0,00	-
10	6 781	6 782	4,72	104,0	0,00	87,63	-	-	0,00	0,00	-
11	6 517	6 519	5,18	104,0	0,00	87,28	-	-	0,00	0,00	-
12	6 678	6 680	4,89	104,0	0,00	87,50	-	-	0,00	0,00	-
13	7 810	7 812	3,07	104,0	0,00	88,86	-	-	0,00	0,00	-
14	6 039	6 041	7,03	106,0	0,00	86,62	-	-	0,00	0,00	-
15	6 358	6 361	6,44	106,0	0,00	87,07	-	-	0,00	0,00	-
16	6 196	6 198	6,73	106,0	0,00	86,85	-	-	0,00	0,00	-
17	5 767	5 770	7,56	106,0	0,00	86,22	-	-	0,00	0,00	-
18	5 347	5 349	8,44	106,0	0,00	85,57	-	-	0,00	0,00	-
19	5 381	5 384	8,37	106,0	0,00	85,62	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
2	10 612	10 613	2,05	107,0	0,00	91,52	-	-	0,00	0,00	-
20	3 580	3 584	13,12	104,0	0,00	82,09	-	-	0,00	0,00	-
21	3 844	3 848	12,18	104,0	0,00	82,70	-	-	0,00	0,00	-
22	5 610	5 612	7,26	104,0	0,00	85,98	-	-	0,00	0,00	-
23	4 954	4 957	8,78	104,0	0,00	84,90	-	-	0,00	0,00	-
24	5 978	5 980	6,49	104,0	0,00	86,53	-	-	0,00	0,00	-
25	6 309	6 311	5,83	104,0	0,00	87,00	-	-	0,00	0,00	-
26	5 737	5 740	6,98	104,0	0,00	86,18	-	-	0,00	0,00	-
27	5 779	5 781	6,90	104,0	0,00	86,24	-	-	0,00	0,00	-
28	5 295	5 297	7,96	104,0	0,00	85,48	-	-	0,00	0,00	-
3	8 110	8 112	5,05	107,0	0,00	89,18	-	-	0,00	0,00	-
4	7 491	7 493	5,96	107,0	0,00	88,49	-	-	0,00	0,00	-
5	7 890	7 892	5,36	107,0	0,00	88,94	-	-	0,00	0,00	-
6	3 036	3 040	17,48	107,0	0,00	80,66	-	-	0,00	0,00	-
7	3 624	3 628	15,08	107,0	0,00	82,19	-	-	0,00	0,00	-
8	4 193	4 197	13,09	107,0	0,00	83,46	-	-	0,00	0,00	-
9	7 252	7 254	6,33	107,0	0,00	88,21	-	-	0,00	0,00	-
Sum			23,91								

- Data undefined due to calculation with octave data

Noise sensitive area: S Sklypas/40 m saugotina aplinka: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (19)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	9 802	9 804	2,93	107,0	0,00	90,83	-	-	0,00	0,00	-
10	6 505	6 507	5,20	104,0	0,00	87,27	-	-	0,00	0,00	-
11	6 233	6 235	5,71	104,0	0,00	86,90	-	-	0,00	0,00	-
12	6 389	6 390	5,42	104,0	0,00	87,11	-	-	0,00	0,00	-
13	7 516	7 517	3,51	104,0	0,00	88,52	-	-	0,00	0,00	-
14	6 219	6 222	6,69	106,0	0,00	86,88	-	-	0,00	0,00	-
15	6 521	6 524	6,15	106,0	0,00	87,29	-	-	0,00	0,00	-
16	6 331	6 333	6,49	106,0	0,00	87,03	-	-	0,00	0,00	-
17	5 918	5 920	7,26	106,0	0,00	86,45	-	-	0,00	0,00	-
18	5 468	5 471	8,18	106,0	0,00	85,76	-	-	0,00	0,00	-
19	5 553	5 556	8,00	106,0	0,00	85,89	-	-	0,00	0,00	-
2	10 315	10 317	2,36	107,0	0,00	91,27	-	-	0,00	0,00	-
20	3 289	3 293	14,23	104,0	0,00	81,35	-	-	0,00	0,00	-
21	3 547	3 551	13,24	104,0	0,00	82,01	-	-	0,00	0,00	-
22	5 318	5 320	7,91	104,0	0,00	85,52	-	-	0,00	0,00	-
23	4 657	4 660	9,61	104,0	0,00	84,37	-	-	0,00	0,00	-
24	5 681	5 683	7,10	104,0	0,00	86,09	-	-	0,00	0,00	-
25	6 014	6 016	6,41	104,0	0,00	86,59	-	-	0,00	0,00	-
26	5 445	5 448	7,62	104,0	0,00	85,72	-	-	0,00	0,00	-
27	5 492	5 495	7,51	104,0	0,00	85,80	-	-	0,00	0,00	-
28	5 021	5 023	8,60	104,0	0,00	85,02	-	-	0,00	0,00	-
3	7 822	7 824	5,46	107,0	0,00	88,87	-	-	0,00	0,00	-
4	7 200	7 202	6,41	107,0	0,00	88,15	-	-	0,00	0,00	-
5	7 608	7 610	5,78	107,0	0,00	88,63	-	-	0,00	0,00	-
6	2 748	2 753	18,81	107,0	0,00	79,80	-	-	0,00	0,00	-
7	3 333	3 337	16,22	107,0	0,00	81,47	-	-	0,00	0,00	-
8	3 902	3 906	14,07	107,0	0,00	82,83	-	-	0,00	0,00	-
9	6 966	6 968	6,79	107,0	0,00	87,86	-	-	0,00	0,00	-
Sum			24,76								

- Data undefined due to calculation with octave data

Noise sensitive area: T Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (20)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	9 775	9 777	2,96	107,0	0,00	90,80	-	-	0,00	0,00	-
10	6 491	6 493	5,23	104,0	0,00	87,25	-	-	0,00	0,00	-
11	6 215	6 217	5,74	104,0	0,00	86,87	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
12	6 367	6 369	5,46	104,0	0,00	87,08	-	-	0,00	0,00	-
13	7 490	7 492	3,55	104,0	0,00	88,49	-	-	0,00	0,00	-
14	6 267	6 269	6,60	106,0	0,00	86,94	-	-	0,00	0,00	-
15	6 569	6 571	6,07	106,0	0,00	87,35	-	-	0,00	0,00	-
16	6 377	6 379	6,40	106,0	0,00	87,10	-	-	0,00	0,00	-
17	5 965	5 967	7,17	106,0	0,00	86,52	-	-	0,00	0,00	-
18	5 514	5 517	8,08	106,0	0,00	85,83	-	-	0,00	0,00	-
19	5 600	5 603	7,90	106,0	0,00	85,97	-	-	0,00	0,00	-
2	10 287	10 289	2,39	107,0	0,00	91,25	-	-	0,00	0,00	-
20	3 267	3 272	14,32	104,0	0,00	81,29	-	-	0,00	0,00	-
21	3 517	3 521	13,35	104,0	0,00	81,93	-	-	0,00	0,00	-
22	5 295	5 298	7,96	104,0	0,00	85,48	-	-	0,00	0,00	-
23	4 625	4 628	9,71	104,0	0,00	84,31	-	-	0,00	0,00	-
24	5 649	5 651	7,17	104,0	0,00	86,04	-	-	0,00	0,00	-
25	5 979	5 981	6,48	104,0	0,00	86,54	-	-	0,00	0,00	-
26	5 408	5 411	7,70	104,0	0,00	85,67	-	-	0,00	0,00	-
27	5 453	5 456	7,60	104,0	0,00	85,74	-	-	0,00	0,00	-
28	4 978	4 981	8,72	104,0	0,00	84,95	-	-	0,00	0,00	-
3	7 801	7 803	5,49	107,0	0,00	88,85	-	-	0,00	0,00	-
4	7 178	7 180	6,44	107,0	0,00	88,12	-	-	0,00	0,00	-
5	7 590	7 592	5,81	107,0	0,00	88,61	-	-	0,00	0,00	-
6	2 709	2 715	19,00	107,0	0,00	79,67	-	-	0,00	0,00	-
7	3 296	3 300	16,37	107,0	0,00	81,37	-	-	0,00	0,00	-
8	3 879	3 883	14,15	107,0	0,00	82,78	-	-	0,00	0,00	-
9	6 947	6 949	6,82	107,0	0,00	87,84	-	-	0,00	0,00	-
Sum			24,85								

- Data undefined due to calculation with octave data

Noise sensitive area: U Sklypas/40 m saugotina aplinka: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (21)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	9 340	9 342	3,47	107,0	0,00	90,41	-	-	0,00	0,00	-
10	6 995	6 997	4,35	104,0	0,00	87,90	-	-	0,00	0,00	-
11	6 527	6 528	5,17	104,0	0,00	87,30	-	-	0,00	0,00	-
12	6 480	6 482	5,25	104,0	0,00	87,23	-	-	0,00	0,00	-
13	7 279	7 281	3,89	104,0	0,00	88,24	-	-	0,00	0,00	-
14	8 721	8 723	2,89	106,0	0,00	89,81	-	-	0,00	0,00	-
15	9 055	9 056	2,48	106,0	0,00	90,14	-	-	0,00	0,00	-
16	8 894	8 896	2,68	106,0	0,00	89,98	-	-	0,00	0,00	-
17	8 467	8 469	3,22	106,0	0,00	89,56	-	-	0,00	0,00	-
18	8 038	8 039	3,80	106,0	0,00	89,10	-	-	0,00	0,00	-
19	8 073	8 074	3,75	106,0	0,00	89,14	-	-	0,00	0,00	-
2	9 785	9 786	2,95	107,0	0,00	90,81	-	-	0,00	0,00	-
20	3 796	3 800	12,34	104,0	0,00	82,60	-	-	0,00	0,00	-
21	3 502	3 506	13,41	104,0	0,00	81,90	-	-	0,00	0,00	-
22	5 414	5 416	7,69	104,0	0,00	85,67	-	-	0,00	0,00	-
23	4 275	4 278	10,76	104,0	0,00	83,63	-	-	0,00	0,00	-
24	5 137	5 139	8,32	104,0	0,00	85,22	-	-	0,00	0,00	-
25	5 222	5 225	8,13	104,0	0,00	85,36	-	-	0,00	0,00	-
26	4 565	4 567	9,88	104,0	0,00	84,19	-	-	0,00	0,00	-
27	4 374	4 377	10,46	104,0	0,00	83,82	-	-	0,00	0,00	-
28	3 633	3 637	12,92	104,0	0,00	82,22	-	-	0,00	0,00	-
3	7 856	7 858	5,41	107,0	0,00	88,91	-	-	0,00	0,00	-
4	7 184	7 186	6,43	107,0	0,00	88,13	-	-	0,00	0,00	-
5	7 841	7 843	5,44	107,0	0,00	88,89	-	-	0,00	0,00	-
6	2 324	2 330	21,03	107,0	0,00	78,35	-	-	0,00	0,00	-
7	2 825	2 830	18,45	107,0	0,00	80,03	-	-	0,00	0,00	-
8	4 239	4 242	12,94	107,0	0,00	83,55	-	-	0,00	0,00	-
9	7 145	7 147	6,50	107,0	0,00	88,08	-	-	0,00	0,00	-
Sum			25,70								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: V Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (22)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	9 312	9 313	3,50	107,0	0,00	90,38	-	-	0,00	0,00	-
10	6 980	6 981	4,38	104,0	0,00	87,88	-	-	0,00	0,00	-
11	6 509	6 511	5,20	104,0	0,00	87,27	-	-	0,00	0,00	-
12	6 460	6 462	5,29	104,0	0,00	87,21	-	-	0,00	0,00	-
13	7 254	7 256	3,93	104,0	0,00	88,21	-	-	0,00	0,00	-
14	8 754	8 756	2,85	106,0	0,00	89,85	-	-	0,00	0,00	-
15	9 086	9 088	2,44	106,0	0,00	90,17	-	-	0,00	0,00	-
16	8 924	8 925	2,64	106,0	0,00	90,01	-	-	0,00	0,00	-
17	8 498	8 500	3,18	106,0	0,00	89,59	-	-	0,00	0,00	-
18	8 066	8 068	3,76	106,0	0,00	89,14	-	-	0,00	0,00	-
19	8 105	8 107	3,71	106,0	0,00	89,18	-	-	0,00	0,00	-
2	9 755	9 757	2,98	107,0	0,00	90,79	-	-	0,00	0,00	-
20	3 788	3 791	12,37	104,0	0,00	82,58	-	-	0,00	0,00	-
21	3 486	3 490	13,47	104,0	0,00	81,86	-	-	0,00	0,00	-
22	5 395	5 398	7,73	104,0	0,00	85,64	-	-	0,00	0,00	-
23	4 252	4 255	10,83	104,0	0,00	83,58	-	-	0,00	0,00	-
24	5 110	5 113	8,39	104,0	0,00	85,17	-	-	0,00	0,00	-
25	5 192	5 195	8,19	104,0	0,00	85,31	-	-	0,00	0,00	-
26	4 535	4 538	9,97	104,0	0,00	84,14	-	-	0,00	0,00	-
27	4 341	4 344	10,55	104,0	0,00	83,76	-	-	0,00	0,00	-
28	3 599	3 603	13,05	104,0	0,00	82,13	-	-	0,00	0,00	-
3	7 834	7 836	5,45	107,0	0,00	88,88	-	-	0,00	0,00	-
4	7 162	7 164	6,47	107,0	0,00	88,10	-	-	0,00	0,00	-
5	7 821	7 823	5,46	107,0	0,00	88,87	-	-	0,00	0,00	-
6	2 309	2 315	21,11	107,0	0,00	78,29	-	-	0,00	0,00	-
7	2 805	2 810	18,54	107,0	0,00	79,97	-	-	0,00	0,00	-
8	4 226	4 230	12,99	107,0	0,00	83,53	-	-	0,00	0,00	-
9	7 126	7 128	6,53	107,0	0,00	88,06	-	-	0,00	0,00	-
Sum			25,77								

- Data undefined due to calculation with octave data

Noise sensitive area: W Sklypas/40 m saugotina aplinka: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (23)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	8 749	8 751	4,20	107,0	0,00	89,84	-	-	0,00	0,00	-
10	6 173	6 175	5,82	104,0	0,00	86,81	-	-	0,00	0,00	-
11	5 733	5 735	6,70	104,0	0,00	86,17	-	-	0,00	0,00	-
12	5 724	5 726	6,72	104,0	0,00	86,16	-	-	0,00	0,00	-
13	6 608	6 610	5,02	104,0	0,00	87,40	-	-	0,00	0,00	-
14	8 266	8 268	3,49	106,0	0,00	89,35	-	-	0,00	0,00	-
15	8 559	8 561	3,10	106,0	0,00	89,65	-	-	0,00	0,00	-
16	8 340	8 342	3,39	106,0	0,00	89,43	-	-	0,00	0,00	-
17	7 945	7 947	3,93	106,0	0,00	89,00	-	-	0,00	0,00	-
18	7 462	7 464	4,63	106,0	0,00	88,46	-	-	0,00	0,00	-
19	7 597	7 599	4,43	106,0	0,00	88,61	-	-	0,00	0,00	-
2	9 217	9 218	3,62	107,0	0,00	90,29	-	-	0,00	0,00	-
20	2 924	2 929	15,76	104,0	0,00	80,33	-	-	0,00	0,00	-
21	2 702	2 707	16,77	104,0	0,00	79,65	-	-	0,00	0,00	-
22	4 640	4 643	9,66	104,0	0,00	84,34	-	-	0,00	0,00	-
23	3 584	3 588	13,10	104,0	0,00	82,10	-	-	0,00	0,00	-
24	4 515	4 518	10,03	104,0	0,00	84,10	-	-	0,00	0,00	-
25	4 682	4 685	9,54	104,0	0,00	84,41	-	-	0,00	0,00	-
26	4 039	4 043	11,52	104,0	0,00	83,13	-	-	0,00	0,00	-
27	3 935	3 938	11,87	104,0	0,00	82,91	-	-	0,00	0,00	-
28	3 292	3 296	14,22	104,0	0,00	81,36	-	-	0,00	0,00	-
3	7 127	7 129	6,53	107,0	0,00	88,06	-	-	0,00	0,00	-
4	6 460	6 462	7,66	107,0	0,00	87,21	-	-	0,00	0,00	-
5	7 071	7 073	6,62	107,0	0,00	87,99	-	-	0,00	0,00	-
6	1 530	1 539	26,34	107,0	0,00	74,74	-	-	0,00	0,00	-
7	2 097	2 104	22,37	107,0	0,00	77,46	-	-	0,00	0,00	-
8	3 399	3 403	15,95	107,0	0,00	81,64	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
9	6 379	6 382	7,81	107,0	0,00	87,10	-	-	0,00	0,00	-
Sum			29,49								

- Data undefined due to calculation with octave data

Noise sensitive area: X Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (24)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	8 706	8 707	4,25	107,0	0,00	89,80	-	-	0,00	0,00	-
10	6 146	6 148	5,87	104,0	0,00	86,77	-	-	0,00	0,00	-
11	5 702	5 704	6,76	104,0	0,00	86,12	-	-	0,00	0,00	-
12	5 690	5 692	6,79	104,0	0,00	86,11	-	-	0,00	0,00	-
13	6 568	6 570	5,09	104,0	0,00	87,35	-	-	0,00	0,00	-
14	8 309	8 311	3,43	106,0	0,00	89,39	-	-	0,00	0,00	-
15	8 600	8 602	3,05	106,0	0,00	89,69	-	-	0,00	0,00	-
16	8 378	8 380	3,34	106,0	0,00	89,46	-	-	0,00	0,00	-
17	7 985	7 987	3,87	106,0	0,00	89,05	-	-	0,00	0,00	-
18	7 500	7 502	4,57	106,0	0,00	88,50	-	-	0,00	0,00	-
19	7 639	7 641	4,37	106,0	0,00	88,66	-	-	0,00	0,00	-
2	9 172	9 174	3,67	107,0	0,00	90,25	-	-	0,00	0,00	-
20	2 905	2 909	15,85	104,0	0,00	80,28	-	-	0,00	0,00	-
21	2 671	2 676	16,92	104,0	0,00	79,55	-	-	0,00	0,00	-
22	4 607	4 610	9,76	104,0	0,00	84,27	-	-	0,00	0,00	-
23	3 544	3 548	13,25	104,0	0,00	82,00	-	-	0,00	0,00	-
24	4 472	4 475	10,16	104,0	0,00	84,02	-	-	0,00	0,00	-
25	4 636	4 638	9,68	104,0	0,00	84,33	-	-	0,00	0,00	-
26	3 992	3 995	11,67	104,0	0,00	83,03	-	-	0,00	0,00	-
27	3 885	3 889	12,03	104,0	0,00	82,80	-	-	0,00	0,00	-
28	3 241	3 245	14,42	104,0	0,00	81,22	-	-	0,00	0,00	-
3	7 091	7 093	6,58	107,0	0,00	88,02	-	-	0,00	0,00	-
4	6 423	6 426	7,73	107,0	0,00	87,16	-	-	0,00	0,00	-
5	7 038	7 040	6,67	107,0	0,00	87,95	-	-	0,00	0,00	-
6	1 496	1 505	26,62	107,0	0,00	74,55	-	-	0,00	0,00	-
7	2 058	2 065	22,61	107,0	0,00	77,30	-	-	0,00	0,00	-
8	3 373	3 377	16,05	107,0	0,00	81,57	-	-	0,00	0,00	-
9	6 346	6 348	7,87	107,0	0,00	87,05	-	-	0,00	0,00	-
Sum			29,71								

- Data undefined due to calculation with octave data

Noise sensitive area: Y Sklypas/40 m saugotina aplinka: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (25)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	3 557	3 561	15,33	107,0	0,00	82,03	-	-	0,00	0,00	-
10	3 804	3 807	11,87	104,0	0,00	82,61	-	-	0,00	0,00	-
11	3 209	3 213	14,14	104,0	0,00	81,14	-	-	0,00	0,00	-
12	2 729	2 733	16,27	104,0	0,00	79,73	-	-	0,00	0,00	-
13	2 268	2 273	18,66	104,0	0,00	78,13	-	-	0,00	0,00	-
14	12 319	12 320	-0,91	106,0	0,00	92,81	-	-	0,00	0,00	-
15	12 415	12 416	-0,99	106,0	0,00	92,88	-	-	0,00	0,00	-
16	11 945	11 946	-0,57	106,0	0,00	92,54	-	-	0,00	0,00	-
17	11 741	11 743	-0,38	106,0	0,00	92,40	-	-	0,00	0,00	-
18	11 062	11 064	0,28	106,0	0,00	91,88	-	-	0,00	0,00	-
19	11 626	11 627	-0,27	106,0	0,00	92,31	-	-	0,00	0,00	-
2	3 921	3 925	14,01	107,0	0,00	82,88	-	-	0,00	0,00	-
20	4 102	4 106	11,31	104,0	0,00	83,27	-	-	0,00	0,00	-
21	3 517	3 520	13,35	104,0	0,00	81,93	-	-	0,00	0,00	-
22	2 740	2 745	16,60	104,0	0,00	79,77	-	-	0,00	0,00	-
23	2 422	2 427	18,16	104,0	0,00	78,70	-	-	0,00	0,00	-
24	1 500	1 509	23,96	104,0	0,00	74,57	-	-	0,00	0,00	-
25	978	991	28,79	104,0	0,00	70,92	-	-	0,00	0,00	-
26	1 506	1 515	23,92	104,0	0,00	74,61	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
27	1 595	1 603	23,25	104,0	0,00	75,10	-	-	0,00	0,00	-
28	2 376	2 382	18,40	104,0	0,00	78,54	-	-	0,00	0,00	-
3	3 182	3 186	16,84	107,0	0,00	81,07	-	-	0,00	0,00	-
4	2 710	2 716	19,00	107,0	0,00	79,68	-	-	0,00	0,00	-
5	3 606	3 610	15,15	107,0	0,00	82,15	-	-	0,00	0,00	-
6	4 223	4 226	13,00	107,0	0,00	83,52	-	-	0,00	0,00	-
7	3 620	3 623	15,10	107,0	0,00	82,18	-	-	0,00	0,00	-
8	3 614	3 618	15,11	107,0	0,00	82,17	-	-	0,00	0,00	-
9	3 142	3 146	17,02	107,0	0,00	80,96	-	-	0,00	0,00	-
Sum			33,42								

- Data undefined due to calculation with octave data

Noise sensitive area: Z Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (26)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	3 522	3 526	15,47	107,0	0,00	81,95	-	-	0,00	0,00	-
10	3 793	3 796	11,91	104,0	0,00	82,59	-	-	0,00	0,00	-
11	3 201	3 205	14,17	104,0	0,00	81,12	-	-	0,00	0,00	-
12	2 719	2 723	16,32	104,0	0,00	79,70	-	-	0,00	0,00	-
13	2 243	2 248	18,80	104,0	0,00	78,04	-	-	0,00	0,00	-
14	12 337	12 338	-0,92	106,0	0,00	92,82	-	-	0,00	0,00	-
15	12 431	12 432	-1,01	106,0	0,00	92,89	-	-	0,00	0,00	-
16	11 961	11 962	-0,58	106,0	0,00	92,56	-	-	0,00	0,00	-
17	11 758	11 759	-0,39	106,0	0,00	92,41	-	-	0,00	0,00	-
18	11 078	11 079	0,26	106,0	0,00	91,89	-	-	0,00	0,00	-
19	11 644	11 645	-0,29	106,0	0,00	92,32	-	-	0,00	0,00	-
2	3 886	3 889	14,13	107,0	0,00	82,80	-	-	0,00	0,00	-
20	4 121	4 125	11,25	104,0	0,00	83,31	-	-	0,00	0,00	-
21	3 539	3 543	13,27	104,0	0,00	81,99	-	-	0,00	0,00	-
22	2 744	2 749	16,58	104,0	0,00	79,78	-	-	0,00	0,00	-
23	2 442	2 448	18,06	104,0	0,00	78,77	-	-	0,00	0,00	-
24	1 513	1 522	23,86	104,0	0,00	74,65	-	-	0,00	0,00	-
25	998	1 011	28,56	104,0	0,00	71,10	-	-	0,00	0,00	-
26	1 534	1 543	23,70	104,0	0,00	74,77	-	-	0,00	0,00	-
27	1 628	1 636	23,00	104,0	0,00	75,28	-	-	0,00	0,00	-
28	2 411	2 416	18,22	104,0	0,00	78,66	-	-	0,00	0,00	-
3	3 158	3 162	16,95	107,0	0,00	81,00	-	-	0,00	0,00	-
4	2 691	2 696	19,10	107,0	0,00	79,61	-	-	0,00	0,00	-
5	3 585	3 589	15,23	107,0	0,00	82,10	-	-	0,00	0,00	-
6	4 251	4 254	12,91	107,0	0,00	83,58	-	-	0,00	0,00	-
7	3 648	3 651	14,99	107,0	0,00	82,25	-	-	0,00	0,00	-
8	3 630	3 634	15,05	107,0	0,00	82,21	-	-	0,00	0,00	-
9	3 126	3 130	17,08	107,0	0,00	80,91	-	-	0,00	0,00	-
Sum			33,29								

- Data undefined due to calculation with octave data

Noise sensitive area: AA Sklypas/40 m saugotina aplinka: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (27)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	3 479	3 483	15,64	107,0	0,00	81,84	-	-	0,00	0,00	-
10	3 813	3 816	11,84	104,0	0,00	82,63	-	-	0,00	0,00	-
11	3 225	3 228	14,08	104,0	0,00	81,18	-	-	0,00	0,00	-
12	2 740	2 743	16,22	104,0	0,00	79,77	-	-	0,00	0,00	-
13	2 235	2 240	18,85	104,0	0,00	78,01	-	-	0,00	0,00	-
14	12 390	12 391	-0,97	106,0	0,00	92,86	-	-	0,00	0,00	-
15	12 484	12 485	-1,05	106,0	0,00	92,93	-	-	0,00	0,00	-
16	12 012	12 013	-0,63	106,0	0,00	92,59	-	-	0,00	0,00	-
17	11 810	11 811	-0,44	106,0	0,00	92,45	-	-	0,00	0,00	-
18	11 130	11 131	0,21	106,0	0,00	91,93	-	-	0,00	0,00	-
19	11 697	11 699	-0,34	106,0	0,00	92,36	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
2	3 838	3 842	14,30	107,0	0,00	82,69	-	-	0,00	0,00	-
20	4 176	4 179	11,08	104,0	0,00	83,42	-	-	0,00	0,00	-
21	3 596	3 599	13,06	104,0	0,00	82,12	-	-	0,00	0,00	-
22	2 784	2 789	16,39	104,0	0,00	79,91	-	-	0,00	0,00	-
23	2 497	2 502	17,78	104,0	0,00	78,97	-	-	0,00	0,00	-
24	1 563	1 571	23,48	104,0	0,00	74,93	-	-	0,00	0,00	-
25	1 054	1 065	27,97	104,0	0,00	71,55	-	-	0,00	0,00	-
26	1 592	1 600	23,27	104,0	0,00	75,08	-	-	0,00	0,00	-
27	1 683	1 691	22,61	104,0	0,00	75,56	-	-	0,00	0,00	-
28	2 463	2 468	17,95	104,0	0,00	78,85	-	-	0,00	0,00	-
3	3 151	3 156	16,97	107,0	0,00	80,98	-	-	0,00	0,00	-
4	2 694	2 699	19,08	107,0	0,00	79,62	-	-	0,00	0,00	-
5	3 586	3 590	15,22	107,0	0,00	82,10	-	-	0,00	0,00	-
6	4 309	4 312	12,72	107,0	0,00	83,69	-	-	0,00	0,00	-
7	3 706	3 709	14,78	107,0	0,00	82,39	-	-	0,00	0,00	-
8	3 682	3 686	14,86	107,0	0,00	82,33	-	-	0,00	0,00	-
9	3 136	3 140	17,04	107,0	0,00	80,94	-	-	0,00	0,00	-
Sum			32,94								

- Data undefined due to calculation with octave data

Noise sensitive area: AB Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (28)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	3 444	3 448	15,77	107,0	0,00	81,75	-	-	0,00	0,00	-
10	3 784	3 787	11,94	104,0	0,00	82,57	-	-	0,00	0,00	-
11	3 197	3 200	14,19	104,0	0,00	81,10	-	-	0,00	0,00	-
12	2 711	2 715	16,36	104,0	0,00	79,67	-	-	0,00	0,00	-
13	2 197	2 202	19,07	104,0	0,00	77,86	-	-	0,00	0,00	-
14	12 389	12 390	-0,97	106,0	0,00	92,86	-	-	0,00	0,00	-
15	12 480	12 481	-1,05	106,0	0,00	92,93	-	-	0,00	0,00	-
16	12 007	12 008	-0,62	106,0	0,00	92,59	-	-	0,00	0,00	-
17	11 807	11 808	-0,44	106,0	0,00	92,44	-	-	0,00	0,00	-
18	11 125	11 127	0,21	106,0	0,00	91,93	-	-	0,00	0,00	-
19	11 696	11 697	-0,34	106,0	0,00	92,36	-	-	0,00	0,00	-
2	3 806	3 810	14,41	107,0	0,00	82,62	-	-	0,00	0,00	-
20	4 176	4 179	11,08	104,0	0,00	83,42	-	-	0,00	0,00	-
21	3 601	3 604	13,04	104,0	0,00	82,14	-	-	0,00	0,00	-
22	2 768	2 772	16,47	104,0	0,00	79,86	-	-	0,00	0,00	-
23	2 500	2 505	17,76	104,0	0,00	78,97	-	-	0,00	0,00	-
24	1 557	1 565	23,53	104,0	0,00	74,89	-	-	0,00	0,00	-
25	1 057	1 069	27,94	104,0	0,00	71,58	-	-	0,00	0,00	-
26	1 606	1 614	23,16	104,0	0,00	75,16	-	-	0,00	0,00	-
27	1 708	1 715	22,44	104,0	0,00	75,68	-	-	0,00	0,00	-
28	2 491	2 496	17,81	104,0	0,00	78,95	-	-	0,00	0,00	-
3	3 114	3 118	17,14	107,0	0,00	80,88	-	-	0,00	0,00	-
4	2 659	2 664	19,26	107,0	0,00	79,51	-	-	0,00	0,00	-
5	3 550	3 554	15,36	107,0	0,00	82,01	-	-	0,00	0,00	-
6	4 323	4 326	12,68	107,0	0,00	83,72	-	-	0,00	0,00	-
7	3 719	3 722	14,73	107,0	0,00	82,42	-	-	0,00	0,00	-
8	3 679	3 683	14,87	107,0	0,00	82,32	-	-	0,00	0,00	-
9	3 103	3 107	17,18	107,0	0,00	80,85	-	-	0,00	0,00	-
Sum			32,94								

- Data undefined due to calculation with octave data

Noise sensitive area: AC Sklypas/40 m saugotina aplinka: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (29)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	4 215	4 218	13,02	107,0	0,00	83,50	-	-	0,00	0,00	-
10	6 788	6 789	4,70	104,0	0,00	87,64	-	-	0,00	0,00	-
11	6 283	6 285	5,61	104,0	0,00	86,97	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
12	5 777	5 778	6,61	104,0	0,00	86,24	-	-	0,00	0,00	-
13	4 770	4 772	8,90	104,0	0,00	84,57	-	-	0,00	0,00	-
14	15 618	15 619	-3,53	106,0	0,00	94,87	-	-	0,00	0,00	-
15	15 734	15 735	-3,62	106,0	0,00	94,94	-	-	0,00	0,00	-
16	15 279	15 280	-3,29	106,0	0,00	94,68	-	-	0,00	0,00	-
17	15 062	15 063	-3,13	106,0	0,00	94,56	-	-	0,00	0,00	-
18	14 392	14 393	-2,63	106,0	0,00	94,16	-	-	0,00	0,00	-
19	14 923	14 924	-3,03	106,0	0,00	94,48	-	-	0,00	0,00	-
2	4 135	4 138	13,28	107,0	0,00	83,34	-	-	0,00	0,00	-
20	7 405	7 406	3,89	104,0	0,00	88,39	-	-	0,00	0,00	-
21	6 759	6 761	4,99	104,0	0,00	87,60	-	-	0,00	0,00	-
22	6 047	6 049	6,35	104,0	0,00	86,63	-	-	0,00	0,00	-
23	5 721	5 723	7,02	104,0	0,00	86,15	-	-	0,00	0,00	-
24	4 847	4 850	9,08	104,0	0,00	84,71	-	-	0,00	0,00	-
25	4 301	4 304	10,68	104,0	0,00	83,68	-	-	0,00	0,00	-
26	4 680	4 682	9,55	104,0	0,00	84,41	-	-	0,00	0,00	-
27	4 514	4 516	10,03	104,0	0,00	84,10	-	-	0,00	0,00	-
28	4 980	4 982	8,71	104,0	0,00	84,95	-	-	0,00	0,00	-
3	5 565	5 567	9,41	107,0	0,00	85,91	-	-	0,00	0,00	-
4	5 412	5 414	9,74	107,0	0,00	85,67	-	-	0,00	0,00	-
5	6 152	6 154	8,23	107,0	0,00	86,78	-	-	0,00	0,00	-
6	7 241	7 242	6,35	107,0	0,00	88,20	-	-	0,00	0,00	-
7	6 693	6 695	7,25	107,0	0,00	87,51	-	-	0,00	0,00	-
8	6 949	6 951	6,82	107,0	0,00	87,84	-	-	0,00	0,00	-
9	5 957	5 959	8,61	107,0	0,00	86,50	-	-	0,00	0,00	-
Sum			22,33								

- Data undefined due to calculation with octave data

Noise sensitive area: AD Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (30)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	4 180	4 183	13,13	107,0	0,00	83,43	-	-	0,00	0,00	-
10	6 767	6 769	4,74	104,0	0,00	87,61	-	-	0,00	0,00	-
11	6 264	6 266	5,65	104,0	0,00	86,94	-	-	0,00	0,00	-
12	5 758	5 760	6,65	104,0	0,00	86,21	-	-	0,00	0,00	-
13	4 746	4 748	8,95	104,0	0,00	84,53	-	-	0,00	0,00	-
14	15 615	15 616	-3,53	106,0	0,00	94,87	-	-	0,00	0,00	-
15	15 730	15 730	-3,61	106,0	0,00	94,93	-	-	0,00	0,00	-
16	15 274	15 274	-3,29	106,0	0,00	94,68	-	-	0,00	0,00	-
17	15 057	15 058	-3,13	106,0	0,00	94,56	-	-	0,00	0,00	-
18	14 387	14 388	-2,62	106,0	0,00	94,16	-	-	0,00	0,00	-
19	14 920	14 921	-3,03	106,0	0,00	94,48	-	-	0,00	0,00	-
2	4 098	4 102	13,40	107,0	0,00	83,26	-	-	0,00	0,00	-
20	7 401	7 402	3,90	104,0	0,00	88,39	-	-	0,00	0,00	-
21	6 757	6 759	5,00	104,0	0,00	87,60	-	-	0,00	0,00	-
22	6 035	6 037	6,37	104,0	0,00	86,62	-	-	0,00	0,00	-
23	5 716	5 718	7,03	104,0	0,00	86,15	-	-	0,00	0,00	-
24	4 839	4 842	9,10	104,0	0,00	84,70	-	-	0,00	0,00	-
25	4 294	4 297	10,70	104,0	0,00	83,66	-	-	0,00	0,00	-
26	4 678	4 680	9,56	104,0	0,00	84,41	-	-	0,00	0,00	-
27	4 515	4 518	10,03	104,0	0,00	84,10	-	-	0,00	0,00	-
28	4 987	4 989	8,69	104,0	0,00	84,96	-	-	0,00	0,00	-
3	5 539	5 541	9,47	107,0	0,00	85,87	-	-	0,00	0,00	-
4	5 389	5 391	9,80	107,0	0,00	85,63	-	-	0,00	0,00	-
5	6 126	6 128	8,28	107,0	0,00	86,75	-	-	0,00	0,00	-
6	7 244	7 246	6,34	107,0	0,00	88,20	-	-	0,00	0,00	-
7	6 695	6 697	7,25	107,0	0,00	87,52	-	-	0,00	0,00	-
8	6 942	6 944	6,83	107,0	0,00	87,83	-	-	0,00	0,00	-
9	5 935	5 937	8,65	107,0	0,00	86,47	-	-	0,00	0,00	-
Sum			22,37								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: AE Sklypas/40 m saugotina aplinka: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (31)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	4 275	4 278	12,83	107,0	0,00	83,63	-	-	0,00	0,00	-
10	6 894	6 896	4,52	104,0	0,00	87,77	-	-	0,00	0,00	-
11	6 392	6 393	5,41	104,0	0,00	87,11	-	-	0,00	0,00	-
12	5 886	5 887	6,39	104,0	0,00	86,40	-	-	0,00	0,00	-
13	4 870	4 873	8,64	104,0	0,00	84,76	-	-	0,00	0,00	-
14	15 735	15 736	-3,62	106,0	0,00	94,94	-	-	0,00	0,00	-
15	15 851	15 851	-3,70	106,0	0,00	95,00	-	-	0,00	0,00	-
16	15 396	15 397	-3,37	106,0	0,00	94,75	-	-	0,00	0,00	-
17	15 178	15 179	-3,22	106,0	0,00	94,62	-	-	0,00	0,00	-
18	14 509	14 510	-2,71	106,0	0,00	94,23	-	-	0,00	0,00	-
19	15 039	15 040	-3,11	106,0	0,00	94,55	-	-	0,00	0,00	-
2	4 181	4 185	13,13	107,0	0,00	83,43	-	-	0,00	0,00	-
20	7 521	7 523	3,70	104,0	0,00	88,53	-	-	0,00	0,00	-
21	6 875	6 877	4,79	104,0	0,00	87,75	-	-	0,00	0,00	-
22	6 162	6 164	6,12	104,0	0,00	86,80	-	-	0,00	0,00	-
23	5 837	5 839	6,78	104,0	0,00	86,33	-	-	0,00	0,00	-
24	4 964	4 966	8,76	104,0	0,00	84,92	-	-	0,00	0,00	-
25	4 418	4 420	10,32	104,0	0,00	83,91	-	-	0,00	0,00	-
26	4 796	4 798	9,22	104,0	0,00	84,62	-	-	0,00	0,00	-
27	4 628	4 631	9,70	104,0	0,00	84,31	-	-	0,00	0,00	-
28	5 090	5 092	8,44	104,0	0,00	85,14	-	-	0,00	0,00	-
3	5 660	5 662	9,21	107,0	0,00	86,06	-	-	0,00	0,00	-
4	5 514	5 516	9,52	107,0	0,00	85,83	-	-	0,00	0,00	-
5	6 249	6 251	8,05	107,0	0,00	86,92	-	-	0,00	0,00	-
6	7 354	7 355	6,17	107,0	0,00	88,33	-	-	0,00	0,00	-
7	6 807	6 809	7,06	107,0	0,00	87,66	-	-	0,00	0,00	-
8	7 065	7 067	6,63	107,0	0,00	87,98	-	-	0,00	0,00	-
9	6 061	6 063	8,41	107,0	0,00	86,65	-	-	0,00	0,00	-
Sum			22,10								

- Data undefined due to calculation with octave data

Noise sensitive area: AF Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (32)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	4 241	4 244	12,94	107,0	0,00	83,56	-	-	0,00	0,00	-
10	6 856	6 858	4,59	104,0	0,00	87,72	-	-	0,00	0,00	-
11	6 355	6 356	5,48	104,0	0,00	87,06	-	-	0,00	0,00	-
12	5 848	5 850	6,46	104,0	0,00	86,34	-	-	0,00	0,00	-
13	4 832	4 835	8,74	104,0	0,00	84,69	-	-	0,00	0,00	-
14	15 704	15 705	-3,60	106,0	0,00	94,92	-	-	0,00	0,00	-
15	15 819	15 820	-3,68	106,0	0,00	94,98	-	-	0,00	0,00	-
16	15 364	15 365	-3,35	106,0	0,00	94,73	-	-	0,00	0,00	-
17	15 147	15 148	-3,19	106,0	0,00	94,61	-	-	0,00	0,00	-
18	14 477	14 478	-2,69	106,0	0,00	94,21	-	-	0,00	0,00	-
19	15 009	15 010	-3,09	106,0	0,00	94,53	-	-	0,00	0,00	-
2	4 149	4 152	13,24	107,0	0,00	83,37	-	-	0,00	0,00	-
20	7 490	7 492	3,75	104,0	0,00	88,49	-	-	0,00	0,00	-
21	6 845	6 847	4,84	104,0	0,00	87,71	-	-	0,00	0,00	-
22	6 127	6 129	6,19	104,0	0,00	86,75	-	-	0,00	0,00	-
23	5 806	5 808	6,84	104,0	0,00	86,28	-	-	0,00	0,00	-
24	4 930	4 933	8,85	104,0	0,00	84,86	-	-	0,00	0,00	-
25	4 385	4 388	10,42	104,0	0,00	83,85	-	-	0,00	0,00	-
26	4 766	4 769	9,30	104,0	0,00	84,57	-	-	0,00	0,00	-
27	4 601	4 603	9,78	104,0	0,00	84,26	-	-	0,00	0,00	-
28	5 067	5 069	8,49	104,0	0,00	85,10	-	-	0,00	0,00	-
3	5 622	5 624	9,29	107,0	0,00	86,00	-	-	0,00	0,00	-
4	5 476	5 478	9,60	107,0	0,00	85,77	-	-	0,00	0,00	-
5	6 211	6 213	8,12	107,0	0,00	86,87	-	-	0,00	0,00	-
6	7 328	7 330	6,21	107,0	0,00	88,30	-	-	0,00	0,00	-
7	6 780	6 782	7,10	107,0	0,00	87,63	-	-	0,00	0,00	-
8	7 033	7 035	6,68	107,0	0,00	87,94	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
9	6 023	6 025	8,48	107,0	0,00	86,60	-	-	0,00	0,00	-
Sum			22,18								

- Data undefined due to calculation with octave data

Noise sensitive area: AG Sklypas/40 m saugotina aplinka: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (33)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	4 317	4 321	12,69	107,0	0,00	83,71	-	-	0,00	0,00	-
10	6 966	6 968	4,40	104,0	0,00	87,86	-	-	0,00	0,00	-
11	6 466	6 467	5,28	104,0	0,00	87,21	-	-	0,00	0,00	-
12	5 959	5 961	6,24	104,0	0,00	86,51	-	-	0,00	0,00	-
13	4 939	4 941	8,48	104,0	0,00	84,88	-	-	0,00	0,00	-
14	15 814	15 814	-3,67	106,0	0,00	94,98	-	-	0,00	0,00	-
15	15 929	15 930	-3,75	106,0	0,00	95,04	-	-	0,00	0,00	-
16	15 475	15 476	-3,43	106,0	0,00	94,79	-	-	0,00	0,00	-
17	15 257	15 258	-3,27	106,0	0,00	94,67	-	-	0,00	0,00	-
18	14 588	14 589	-2,77	106,0	0,00	94,28	-	-	0,00	0,00	-
19	15 118	15 119	-3,17	106,0	0,00	94,59	-	-	0,00	0,00	-
2	4 215	4 218	13,02	107,0	0,00	83,50	-	-	0,00	0,00	-
20	7 600	7 602	3,57	104,0	0,00	88,62	-	-	0,00	0,00	-
21	6 954	6 956	4,65	104,0	0,00	87,85	-	-	0,00	0,00	-
22	6 239	6 241	5,97	104,0	0,00	86,91	-	-	0,00	0,00	-
23	5 916	5 918	6,61	104,0	0,00	86,44	-	-	0,00	0,00	-
24	5 042	5 045	8,55	104,0	0,00	85,06	-	-	0,00	0,00	-
25	4 496	4 499	10,09	104,0	0,00	84,06	-	-	0,00	0,00	-
26	4 875	4 877	9,00	104,0	0,00	84,76	-	-	0,00	0,00	-
27	4 705	4 708	9,48	104,0	0,00	84,46	-	-	0,00	0,00	-
28	5 164	5 167	8,26	104,0	0,00	85,26	-	-	0,00	0,00	-
3	5 725	5 727	9,08	107,0	0,00	86,16	-	-	0,00	0,00	-
4	5 584	5 586	9,37	107,0	0,00	85,94	-	-	0,00	0,00	-
5	6 315	6 317	7,93	107,0	0,00	87,01	-	-	0,00	0,00	-
6	7 430	7 432	6,05	107,0	0,00	88,42	-	-	0,00	0,00	-
7	6 884	6 886	6,93	107,0	0,00	87,76	-	-	0,00	0,00	-
8	7 144	7 146	6,50	107,0	0,00	88,08	-	-	0,00	0,00	-
9	6 131	6 133	8,27	107,0	0,00	86,75	-	-	0,00	0,00	-
Sum			21,95								

- Data undefined due to calculation with octave data

Noise sensitive area: AH Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (34)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	4 284	4 287	12,80	107,0	0,00	83,64	-	-	0,00	0,00	-
10	6 951	6 952	4,43	104,0	0,00	87,84	-	-	0,00	0,00	-
11	6 452	6 454	5,30	104,0	0,00	87,20	-	-	0,00	0,00	-
12	5 946	5 948	6,27	104,0	0,00	86,49	-	-	0,00	0,00	-
13	4 920	4 922	8,52	104,0	0,00	84,84	-	-	0,00	0,00	-
14	15 816	15 817	-3,68	106,0	0,00	94,98	-	-	0,00	0,00	-
15	15 931	15 932	-3,76	106,0	0,00	95,05	-	-	0,00	0,00	-
16	15 475	15 476	-3,43	106,0	0,00	94,79	-	-	0,00	0,00	-
17	15 259	15 260	-3,27	106,0	0,00	94,67	-	-	0,00	0,00	-
18	14 588	14 589	-2,78	106,0	0,00	94,28	-	-	0,00	0,00	-
19	15 121	15 122	-3,17	106,0	0,00	94,59	-	-	0,00	0,00	-
2	4 179	4 182	13,14	107,0	0,00	83,43	-	-	0,00	0,00	-
20	7 602	7 604	3,57	104,0	0,00	88,62	-	-	0,00	0,00	-
21	6 958	6 960	4,64	104,0	0,00	87,85	-	-	0,00	0,00	-
22	6 233	6 235	5,98	104,0	0,00	86,90	-	-	0,00	0,00	-
23	5 918	5 920	6,61	104,0	0,00	86,45	-	-	0,00	0,00	-
24	5 040	5 042	8,56	104,0	0,00	85,05	-	-	0,00	0,00	-
25	4 496	4 499	10,09	104,0	0,00	84,06	-	-	0,00	0,00	-
26	4 879	4 881	8,99	104,0	0,00	84,77	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
27	4 713	4 716	9,45	104,0	0,00	84,47	-	-	0,00	0,00	-
28	5 178	5 180	8,23	104,0	0,00	85,29	-	-	0,00	0,00	-
3	5 703	5 705	9,12	107,0	0,00	86,13	-	-	0,00	0,00	-
4	5 566	5 568	9,41	107,0	0,00	85,91	-	-	0,00	0,00	-
5	6 294	6 296	7,97	107,0	0,00	86,98	-	-	0,00	0,00	-
6	7 440	7 442	6,03	107,0	0,00	88,43	-	-	0,00	0,00	-
7	6 893	6 894	6,91	107,0	0,00	87,77	-	-	0,00	0,00	-
8	7 144	7 146	6,50	107,0	0,00	88,08	-	-	0,00	0,00	-
9	6 114	6 116	8,31	107,0	0,00	86,73	-	-	0,00	0,00	-
Sum			21,98								

- Data undefined due to calculation with octave data

Noise sensitive area: AI Sklypas/40 m saugotina aplinka: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (35)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	5 892	5 895	8,74	107,0	0,00	86,41	-	-	0,00	0,00	-
10	7 868	7 869	2,98	104,0	0,00	88,92	-	-	0,00	0,00	-
11	7 297	7 298	3,86	104,0	0,00	88,26	-	-	0,00	0,00	-
12	6 803	6 804	4,68	104,0	0,00	87,66	-	-	0,00	0,00	-
13	6 022	6 024	6,12	104,0	0,00	86,60	-	-	0,00	0,00	-
14	15 823	15 824	-3,68	106,0	0,00	94,99	-	-	0,00	0,00	-
15	15 999	16 000	-3,80	106,0	0,00	95,08	-	-	0,00	0,00	-
16	15 609	15 610	-3,53	106,0	0,00	94,87	-	-	0,00	0,00	-
17	15 335	15 336	-3,33	106,0	0,00	94,71	-	-	0,00	0,00	-
18	14 709	14 710	-2,87	106,0	0,00	94,35	-	-	0,00	0,00	-
19	15 127	15 128	-3,18	106,0	0,00	94,60	-	-	0,00	0,00	-
2	5 868	5 870	8,79	107,0	0,00	86,37	-	-	0,00	0,00	-
20	7 764	7 766	3,32	104,0	0,00	88,80	-	-	0,00	0,00	-
21	7 040	7 042	4,50	104,0	0,00	87,95	-	-	0,00	0,00	-
22	6 810	6 812	4,90	104,0	0,00	87,67	-	-	0,00	0,00	-
23	6 156	6 158	6,13	104,0	0,00	86,79	-	-	0,00	0,00	-
24	5 486	5 489	7,53	104,0	0,00	85,79	-	-	0,00	0,00	-
25	4 897	4 900	8,94	104,0	0,00	84,80	-	-	0,00	0,00	-
26	5 059	5 061	8,51	104,0	0,00	85,09	-	-	0,00	0,00	-
27	4 732	4 734	9,40	104,0	0,00	84,51	-	-	0,00	0,00	-
28	4 914	4 917	8,89	104,0	0,00	84,83	-	-	0,00	0,00	-
3	6 897	6 899	6,91	107,0	0,00	87,78	-	-	0,00	0,00	-
4	6 613	6 615	7,39	107,0	0,00	87,41	-	-	0,00	0,00	-
5	7 441	7 442	6,03	107,0	0,00	88,43	-	-	0,00	0,00	-
6	7 238	7 240	6,35	107,0	0,00	88,19	-	-	0,00	0,00	-
7	6 779	6 781	7,10	107,0	0,00	87,63	-	-	0,00	0,00	-
8	7 417	7 419	6,07	107,0	0,00	88,41	-	-	0,00	0,00	-
9	7 120	7 122	6,54	107,0	0,00	88,05	-	-	0,00	0,00	-
Sum			20,45								

- Data undefined due to calculation with octave data

Noise sensitive area: AJ Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (36)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	5 926	5 928	8,67	107,0	0,00	86,46	-	-	0,00	0,00	-
10	7 908	7 910	2,92	104,0	0,00	88,96	-	-	0,00	0,00	-
11	7 337	7 338	3,79	104,0	0,00	88,31	-	-	0,00	0,00	-
12	6 843	6 844	4,61	104,0	0,00	87,71	-	-	0,00	0,00	-
13	6 062	6 064	6,04	104,0	0,00	86,65	-	-	0,00	0,00	-
14	15 858	15 859	-3,70	106,0	0,00	95,01	-	-	0,00	0,00	-
15	16 035	16 036	-3,83	106,0	0,00	95,10	-	-	0,00	0,00	-
16	15 646	15 647	-3,55	106,0	0,00	94,89	-	-	0,00	0,00	-
17	15 371	15 372	-3,36	106,0	0,00	94,73	-	-	0,00	0,00	-
18	14 746	14 746	-2,89	106,0	0,00	94,37	-	-	0,00	0,00	-
19	15 162	15 163	-3,20	106,0	0,00	94,62	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

...continued from previous page

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
2	5 899	5 901	8,73	107,0	0,00	86,42	-	-	0,00	0,00	-
20	7 802	7 804	3,26	104,0	0,00	88,85	-	-	0,00	0,00	-
21	7 077	7 079	4,44	104,0	0,00	88,00	-	-	0,00	0,00	-
22	6 850	6 852	4,83	104,0	0,00	87,72	-	-	0,00	0,00	-
23	6 194	6 196	6,05	104,0	0,00	86,84	-	-	0,00	0,00	-
24	5 526	5 528	7,44	104,0	0,00	85,85	-	-	0,00	0,00	-
25	4 937	4 939	8,83	104,0	0,00	84,87	-	-	0,00	0,00	-
26	5 098	5 100	8,42	104,0	0,00	85,15	-	-	0,00	0,00	-
27	4 769	4 772	9,29	104,0	0,00	84,57	-	-	0,00	0,00	-
28	4 949	4 951	8,80	104,0	0,00	84,89	-	-	0,00	0,00	-
3	6 936	6 938	6,84	107,0	0,00	87,82	-	-	0,00	0,00	-
4	6 653	6 655	7,32	107,0	0,00	87,46	-	-	0,00	0,00	-
5	7 480	7 482	5,97	107,0	0,00	88,48	-	-	0,00	0,00	-
6	7 272	7 274	6,30	107,0	0,00	88,24	-	-	0,00	0,00	-
7	6 815	6 816	7,04	107,0	0,00	87,67	-	-	0,00	0,00	-
8	7 455	7 457	6,01	107,0	0,00	88,45	-	-	0,00	0,00	-
9	7 160	7 162	6,47	107,0	0,00	88,10	-	-	0,00	0,00	-
Sum			20,37								

- Data undefined due to calculation with octave data

Noise sensitive area: AK Sklypas/40 m saugotina aplinka: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (37)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	6 990	6 992	6,75	107,0	0,00	87,89	-	-	0,00	0,00	-
10	9 196	9 197	1,18	104,0	0,00	90,27	-	-	0,00	0,00	-
11	8 629	8 630	1,92	104,0	0,00	89,72	-	-	0,00	0,00	-
12	8 133	8 135	2,60	104,0	0,00	89,21	-	-	0,00	0,00	-
13	7 318	7 319	3,82	104,0	0,00	88,29	-	-	0,00	0,00	-
14	17 042	17 042	-4,51	106,0	0,00	95,63	-	-	0,00	0,00	-
15	17 235	17 235	-4,64	106,0	0,00	95,73	-	-	0,00	0,00	-
16	16 863	16 864	-4,39	106,0	0,00	95,54	-	-	0,00	0,00	-
17	16 575	16 576	-4,20	106,0	0,00	95,39	-	-	0,00	0,00	-
18	15 962	15 963	-3,78	106,0	0,00	95,06	-	-	0,00	0,00	-
19	16 347	16 348	-4,04	106,0	0,00	95,27	-	-	0,00	0,00	-
2	6 896	6 898	6,91	107,0	0,00	87,77	-	-	0,00	0,00	-
20	9 052	9 054	1,47	104,0	0,00	90,14	-	-	0,00	0,00	-
21	8 318	8 319	2,49	104,0	0,00	89,40	-	-	0,00	0,00	-
22	8 146	8 148	2,74	104,0	0,00	89,22	-	-	0,00	0,00	-
23	7 466	7 468	3,79	104,0	0,00	88,46	-	-	0,00	0,00	-
24	6 820	6 822	4,89	104,0	0,00	87,68	-	-	0,00	0,00	-
25	6 230	6 232	5,98	104,0	0,00	86,89	-	-	0,00	0,00	-
26	6 371	6 373	5,71	104,0	0,00	87,09	-	-	0,00	0,00	-
27	6 023	6 025	6,40	104,0	0,00	86,60	-	-	0,00	0,00	-
28	6 137	6 140	6,17	104,0	0,00	86,76	-	-	0,00	0,00	-
3	8 176	8 178	4,96	107,0	0,00	89,25	-	-	0,00	0,00	-
4	7 921	7 923	5,32	107,0	0,00	88,98	-	-	0,00	0,00	-
5	8 733	8 735	4,22	107,0	0,00	89,82	-	-	0,00	0,00	-
6	8 441	8 443	4,60	107,0	0,00	89,53	-	-	0,00	0,00	-
7	8 013	8 015	5,19	107,0	0,00	89,08	-	-	0,00	0,00	-
8	8 725	8 727	4,23	107,0	0,00	89,82	-	-	0,00	0,00	-
9	8 436	8 438	4,61	107,0	0,00	89,52	-	-	0,00	0,00	-
Sum			18,24								

- Data undefined due to calculation with octave data

Noise sensitive area: AL Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (38)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	7 019	7 021	6,70	107,0	0,00	87,93	-	-	0,00	0,00	-
10	9 225	9 227	1,15	104,0	0,00	90,30	-	-	0,00	0,00	-
11	8 659	8 660	1,88	104,0	0,00	89,75	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
12	8 163	8 164	2,55	104,0	0,00	89,24	-	-	0,00	0,00	-
13	7 348	7 349	3,78	104,0	0,00	88,32	-	-	0,00	0,00	-
14	17 066	17 067	-4,53	106,0	0,00	95,64	-	-	0,00	0,00	-
15	17 259	17 260	-4,65	106,0	0,00	95,74	-	-	0,00	0,00	-
16	16 888	16 889	-4,41	106,0	0,00	95,55	-	-	0,00	0,00	-
17	16 599	16 600	-4,22	106,0	0,00	95,40	-	-	0,00	0,00	-
18	15 987	15 988	-3,79	106,0	0,00	95,08	-	-	0,00	0,00	-
19	16 371	16 372	-4,06	106,0	0,00	95,28	-	-	0,00	0,00	-
2	6 924	6 926	6,86	107,0	0,00	87,81	-	-	0,00	0,00	-
20	9 079	9 080	1,43	104,0	0,00	90,16	-	-	0,00	0,00	-
21	8 344	8 346	2,45	104,0	0,00	89,43	-	-	0,00	0,00	-
22	8 175	8 177	2,69	104,0	0,00	89,25	-	-	0,00	0,00	-
23	7 494	7 495	3,74	104,0	0,00	88,50	-	-	0,00	0,00	-
24	6 848	6 850	4,84	104,0	0,00	87,71	-	-	0,00	0,00	-
25	6 259	6 261	5,93	104,0	0,00	86,93	-	-	0,00	0,00	-
26	6 398	6 400	5,66	104,0	0,00	87,12	-	-	0,00	0,00	-
27	6 049	6 052	6,34	104,0	0,00	86,64	-	-	0,00	0,00	-
28	6 162	6 164	6,12	104,0	0,00	86,80	-	-	0,00	0,00	-
3	8 206	8 208	4,92	107,0	0,00	89,29	-	-	0,00	0,00	-
4	7 951	7 953	5,28	107,0	0,00	89,01	-	-	0,00	0,00	-
5	8 763	8 765	4,18	107,0	0,00	89,85	-	-	0,00	0,00	-
6	8 465	8 467	4,57	107,0	0,00	89,55	-	-	0,00	0,00	-
7	8 038	8 040	5,15	107,0	0,00	89,10	-	-	0,00	0,00	-
8	8 752	8 754	4,19	107,0	0,00	89,84	-	-	0,00	0,00	-
9	8 466	8 468	4,57	107,0	0,00	89,56	-	-	0,00	0,00	-
Sum			18,19								

- Data undefined due to calculation with octave data

Noise sensitive area: AM Sklypas/40 m saugotina aplinka: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (39)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	6 404	6 406	7,77	107,0	0,00	87,13	-	-	0,00	0,00	-
10	9 157	9 158	1,23	104,0	0,00	90,24	-	-	0,00	0,00	-
11	8 639	8 640	1,90	104,0	0,00	89,73	-	-	0,00	0,00	-
12	8 133	8 134	2,60	104,0	0,00	89,21	-	-	0,00	0,00	-
13	7 149	7 151	4,10	104,0	0,00	88,09	-	-	0,00	0,00	-
14	17 632	17 633	-4,89	106,0	0,00	95,93	-	-	0,00	0,00	-
15	17 788	17 789	-4,99	106,0	0,00	96,00	-	-	0,00	0,00	-
16	17 374	17 374	-4,73	106,0	0,00	95,80	-	-	0,00	0,00	-
17	17 120	17 121	-4,56	106,0	0,00	95,67	-	-	0,00	0,00	-
18	16 477	16 478	-4,13	106,0	0,00	95,34	-	-	0,00	0,00	-
19	16 935	16 936	-4,44	106,0	0,00	95,58	-	-	0,00	0,00	-
2	6 214	6 216	8,12	107,0	0,00	86,87	-	-	0,00	0,00	-
20	9 492	9 493	0,90	104,0	0,00	90,55	-	-	0,00	0,00	-
21	8 794	8 795	1,82	104,0	0,00	89,89	-	-	0,00	0,00	-
22	8 325	8 326	2,48	104,0	0,00	89,41	-	-	0,00	0,00	-
23	7 838	7 839	3,20	104,0	0,00	88,89	-	-	0,00	0,00	-
24	7 059	7 061	4,47	104,0	0,00	87,98	-	-	0,00	0,00	-
25	6 484	6 486	5,50	104,0	0,00	87,24	-	-	0,00	0,00	-
26	6 751	6 753	5,01	104,0	0,00	87,59	-	-	0,00	0,00	-
27	6 482	6 484	5,50	104,0	0,00	87,24	-	-	0,00	0,00	-
28	6 754	6 756	5,00	104,0	0,00	87,59	-	-	0,00	0,00	-
3	7 939	7 940	5,30	107,0	0,00	89,00	-	-	0,00	0,00	-
4	7 790	7 792	5,51	107,0	0,00	88,83	-	-	0,00	0,00	-
5	8 529	8 531	4,49	107,0	0,00	89,62	-	-	0,00	0,00	-
6	9 082	9 083	3,78	107,0	0,00	90,16	-	-	0,00	0,00	-
7	8 596	8 597	4,40	107,0	0,00	89,69	-	-	0,00	0,00	-
8	9 095	9 096	3,76	107,0	0,00	90,18	-	-	0,00	0,00	-
9	8 334	8 336	4,75	107,0	0,00	89,42	-	-	0,00	0,00	-
Sum			18,12								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: AN Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (40)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	6 406	6 409	7,76	107,0	0,00	87,14	-	-	0,00	0,00	-
10	9 170	9 171	1,22	104,0	0,00	90,25	-	-	0,00	0,00	-
11	8 652	8 653	1,88	104,0	0,00	89,74	-	-	0,00	0,00	-
12	8 146	8 147	2,58	104,0	0,00	89,22	-	-	0,00	0,00	-
13	7 160	7 162	4,08	104,0	0,00	88,10	-	-	0,00	0,00	-
14	17 653	17 653	-4,91	106,0	0,00	95,94	-	-	0,00	0,00	-
15	17 808	17 809	-5,01	106,0	0,00	96,01	-	-	0,00	0,00	-
16	17 393	17 394	-4,74	106,0	0,00	95,81	-	-	0,00	0,00	-
17	17 140	17 141	-4,58	106,0	0,00	95,68	-	-	0,00	0,00	-
18	16 497	16 497	-4,15	106,0	0,00	95,35	-	-	0,00	0,00	-
19	16 956	16 957	-4,45	106,0	0,00	95,59	-	-	0,00	0,00	-
2	6 215	6 217	8,11	107,0	0,00	86,87	-	-	0,00	0,00	-
20	9 511	9 513	0,88	104,0	0,00	90,57	-	-	0,00	0,00	-
21	8 814	8 815	1,79	104,0	0,00	89,90	-	-	0,00	0,00	-
22	8 340	8 342	2,45	104,0	0,00	89,43	-	-	0,00	0,00	-
23	7 856	7 858	3,17	104,0	0,00	88,91	-	-	0,00	0,00	-
24	7 076	7 078	4,44	104,0	0,00	88,00	-	-	0,00	0,00	-
25	6 501	6 503	5,47	104,0	0,00	87,26	-	-	0,00	0,00	-
26	6 770	6 772	4,98	104,0	0,00	87,61	-	-	0,00	0,00	-
27	6 502	6 504	5,47	104,0	0,00	87,26	-	-	0,00	0,00	-
28	6 775	6 777	4,97	104,0	0,00	87,62	-	-	0,00	0,00	-
3	7 948	7 950	5,28	107,0	0,00	89,01	-	-	0,00	0,00	-
4	7 801	7 803	5,49	107,0	0,00	88,85	-	-	0,00	0,00	-
5	8 539	8 540	4,47	107,0	0,00	89,63	-	-	0,00	0,00	-
6	9 103	9 104	3,75	107,0	0,00	90,19	-	-	0,00	0,00	-
7	8 617	8 618	4,37	107,0	0,00	89,71	-	-	0,00	0,00	-
8	9 113	9 115	3,74	107,0	0,00	90,19	-	-	0,00	0,00	-
9	8 346	8 347	4,73	107,0	0,00	89,43	-	-	0,00	0,00	-
Sum			18,10								

- Data undefined due to calculation with octave data

DECIBEL - Assumptions for noise calculation

Calculation: Foninës VE

Noise calculation model:
ISO 9613-2:2024 General
Wind speed (at 10 m height):
10,0 m/s
Ground attenuation:
General, Ground factor: 0,7
Meteorological coefficient, C0:
Selected option: Fixed value: 0,0 dB
Type of demand in calculation:
1: WTG noise is compared to demand (DK, DE, SE, NL etc.)
Noise values in calculation:
All noise values are mean values (Lwa) (Normal)
Pure tones:
Fixed penalty added to source noise of WTGs with pure tones
Model: 5,0 dB(A)
Height above ground level, when no value in NSA object:
1,5 m; Don't allow override of model height with height from NSA object
Uncertainty margin:
0,0 dB; Uncertainty margin in NSA has priority
Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:
0,0 dB(A)
Octave data required
Frequency dependent air absorption

63	125	250	500	1 000	2 000	4 000	8 000
[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]
0,1	0,4	1,0	1,9	3,7	9,7	32,8	117,0

The air absorption is for a temperature of 10,0 degrees C and 70,0 % humidity.

All coordinates are in
Lithuanian TM LKS94-LKS94 (LT)

WTG: GE WIND ENERGY 6.0-164 6000 164.0 !O!
Noise: 6.0-164 NO 107dB

Source	Source/Date	Creator	Edited
Noise_Emission-NO_Cypress_6.0-164-50Hz_DE_r01	2020-05-05	EMD	2022-03-09 15:11

					Octave data							
Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones	63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
Extrapolated	167,0	10,0	107,0	No	88,1	93,6	98,1	100,7	102,3	100,1	92,6	76,8

WTG: GE WIND ENERGY 5.5-158 Thrust 665 5500 158.0 !O!
Noise: 5.5-158 NRO 104dB

Source	Source/Date	Creator	Edited
Noise_Emission-NRO_5.3-158-50Hz_EN_r01	2018-03-12	EMD	2019-01-21 12:38

					Octave data							
Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones	63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
Interpolated	151,0	10,0	104,0	No	85,3	91,3	96,1	98,2	98,9	96,2	89,3	74,5

WTG: Siemens Gamesa SG 6.6-170 6600 170.0 !O!
Noise: (AM 0, 6.6MW) - 106dB(A)

Source	Source/Date	Creator	Edited
SGRE	2021-12-17	EMD	2021-12-17 12:07

Siemens Gamesa Renewable Energy and its affiliates reserve the right to change the above specifications without prior notice.

					Octave data							
Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones	63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
Interpolated	165,0	10,0	106,0	No	86,5	93,4	96,1	97,9	101,8	99,9	93,3	83,0

DECIBEL - Assumptions for noise calculation

Calculation: Foninës VE

WTG: VESTAS V162 5600 162.0 !O!
Noise: Level 0 - Estimated - Mode 0 - 01-2019

Source	Source/Date	Creator	Edited
Manufacturer	2019-01-23	EMD	2019-07-23 13:06

Blades with serrated trailing edge.
Document no. 0081-5298_01.

					Octave data							
Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones	63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
From Windcat	166,0	10,0	104,0	No	84,8	92,3	97,0	99,0	98,1	94,5	88,1	78,9

Noise sensitive area: A Sklypas/40 m saugotina aplinka: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: B Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (2)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: C Sklypas/40 m saugotina aplinka: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (3)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: D Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (4)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: E Sklypas/40 m saugotina aplinka: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (5)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: F Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (6)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: G Sklypas/40 m saugotina aplinka: Neturi adreso (7)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Foninës VE

Noise sensitive area: H Gyvenamasis pastatas: Neturi adreso (8)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: I Sklypas/40 m saugotina aplinka: Neturi adreso (9)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: J Gyvenamasis pastatas: Neturi adreso (10)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: K Sklypas/40 m saugotina aplinka: Neturi adreso (11)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: L Gyvenamasis pastatas: Neturi adreso (12)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: M Sklypas/40 m saugotina aplinka: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: N Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (14)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: O Sklypas/40 m saugotina aplinka: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav.
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: P Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (16)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Foninës VE

Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: Q Sklypas/40 m saugotina aplinka: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (17)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: R Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (18)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: S Sklypas/40 m saugotina aplinka: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (19)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: T Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (20)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: U Sklypas/40 m saugotina aplinka: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (21)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: V Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (22)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: W Sklypas/40 m saugotina aplinka: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (23)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: X Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (24)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Foninës VE

Noise sensitive area: Y Sklypas/40 m saugotina aplinka: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (25)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: Z Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (26)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AA Sklypas/40 m saugotina aplinka: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (27)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AB Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (28)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AC Sklypas/40 m saugotina aplinka: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (29)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AD Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (30)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AE Sklypas/40 m saugotina aplinka: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (31)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AF Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (32)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AG Sklypas/40 m saugotina aplinka: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (33)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Foninës VE

Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AH Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (34)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AI Sklypas/40 m saugotina aplinka: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (35)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AJ Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (36)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AK Sklypas/40 m saugotina aplinka: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (37)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AL Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (38)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AM Sklypas/40 m saugotina aplinka: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (39)

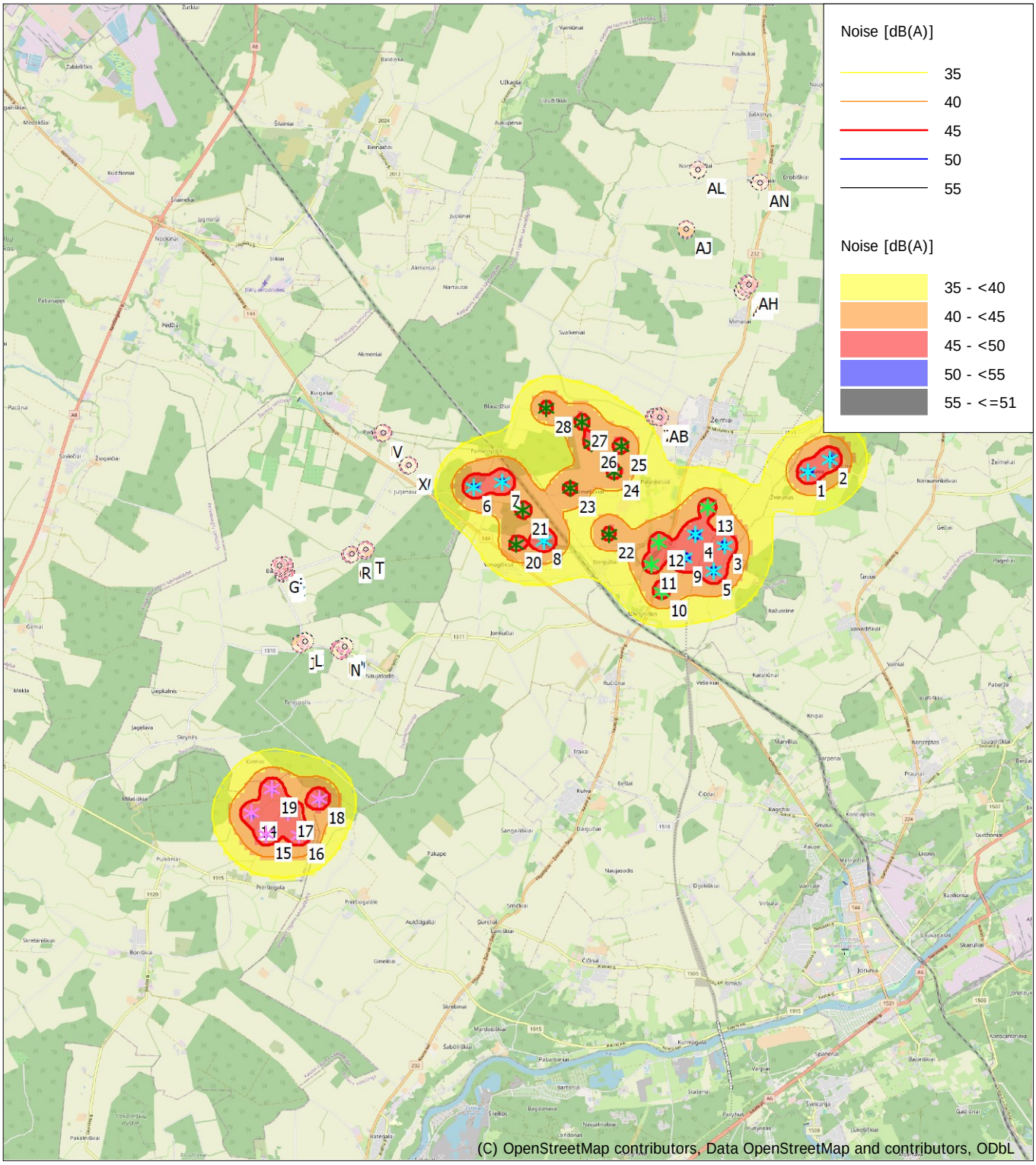
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AN Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (40)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Map 10,0 m/s

Calculation: Foninės VE



0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:125 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 510 424 North: 6 113 164

Existing WTG Noise sensitive area

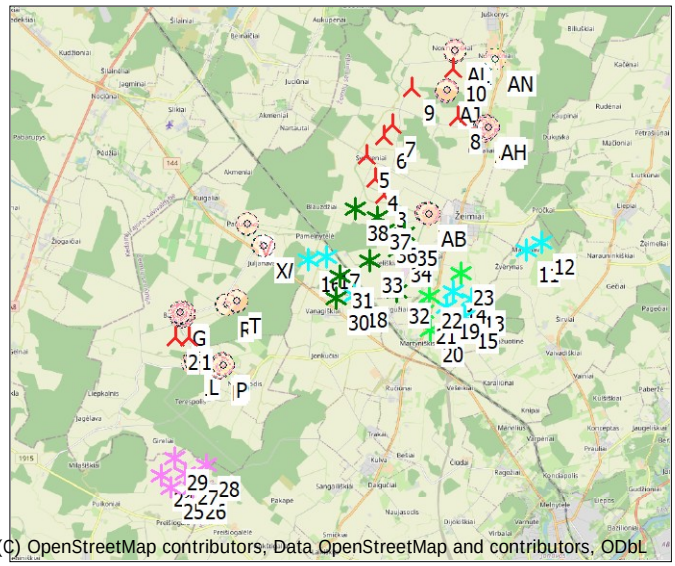
Noise calculation model: ISO 9613-2:2024 General. Wind speed: 10,0 m/s
Height above sea level from active line object

DECIBEL - Main Result

Calculation: Suminis: Planuojamos+ Foninës VE

Noise calculation model:
ISO 9613-2:2024 General
Wind speed (at 10 m height):
10,0 m/s
Ground attenuation:
General, Ground factor: 0,7
Meteorological coefficient, C0:
Selected option: Fixed value: 0,0 dB
Type of demand in calculation:
1: WTG noise is compared to demand (DK, DE, SE, NL etc.)
Noise values in calculation:
All noise values are mean values (Lwa) (Normal)
Pure tones:
Fixed penalty added to source noise of WTGs with pure tones
Model: 5,0 dB(A)
Height above ground level, when no value in NSA object:
1,5 m; Don't allow override of model height with height from NSA object
Uncertainty margin:
0,0 dB; Uncertainty margin in NSA has priority
Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:
0,0 dB(A)

All coordinates are in
Lithuanian TM LKS94-LKS94 (LT)



Scale 1:250 000

New WTG Existing WTG Noise sensitive area

WTGs

	Y	X	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Noise data Creator	Name	Wind speed	LwA,ref	
			[m]					[kW]	[m]	[m]			[m/s]	[dB(A)]	
1	505 066	6 112 165	60,0	VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
2	504 615	6 112 148	60,0	VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
3	511 539	6 116 908	60,0	VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
4	511 222	6 117 399	60,0	VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
5	510 959	6 118 219	60,0	VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
6	511 530	6 118 807	60,0	VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
7	511 785	6 119 202	60,0	VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
8	513 980	6 119 458	63,3	VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
9	512 435	6 120 424	60,0	VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
10	513 775	6 121 028	60,0	VESTAS V172-7.2 7200 172.0 ...	Yes	VESTAS	V172-7.2-7 200	7 200	172,0	135,0	EMD	Level 0 - Measured - PO7200	10,0	106,9	h
11	516 258	6 115 067	70,0	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
12	516 724	6 115 361	70,0	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
13	514 431	6 113 473	69,2	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
14	513 801	6 113 708	67,7	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
15	514 206	6 112 903	67,5	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
16	508 976	6 114 735	60,0	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
17	509 582	6 114 845	60,0	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
18	510 506	6 113 569	66,9	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
19	513 575	6 113 197	64,7	GE WIND ENERGY 6.0-164 60...	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	EMD	6.0-164 NO 107dB	10,0	107,0	g
20	513 058	6 112 467	63,6	GE WIND ENERGY 5.5-158 Th...	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	EMD	5.5-158 NRO 104dB	10,0	104,0	g
21	512 838	6 113 059	61,2	GE WIND ENERGY 5.0-158 Th...	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	EMD	5.5-158 NRO 104dB	10,0	104,0	g
22	512 996	6 113 540	63,8	GE WIND ENERGY 5.0-158 Th...	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	EMD	5.5-158 NRO 104dB	10,0	104,0	g
23	514 062	6 114 314	70,0	GE WIND ENERGY 5.0-158 Th...	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	EMD	5.5-158 NRO 104dB	10,0	104,0	g
24	504 125	6 107 635	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
25	504 453	6 107 182	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
26	505 171	6 107 171	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
27	504 923	6 107 664	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
28	505 608	6 107 960	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
29	504 569	6 108 172	70,0	Siemens Gamesa SG 5.8-170 ...	Yes	Siemens Gamesa	SG 6.6-170-6 600	6 600	170,0	165,0	EMD	(AM 0, 6.6MW) - 106dB(A)	10,0	106,0	g
30	509 897	6 113 484	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
31	510 043	6 114 232	61,7	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
32	511 915	6 113 715	64,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
33	511 063	6 114 701	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
34	512 024	6 115 057	62,7	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
35	512 170	6 115 628	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
36	511 515	6 115 700	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
37	511 319	6 116 162	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	
38	510 542	6 116 457	60,0	VESTAS V162 5600 162.0 !O! ...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	EMD	Level 0 - Estimated - Mode 0 - 01-2019	10,0	104,0	

h) Generic octave distribution used
g) Data calculated from data for other wind speed (uncertain)

Calculation Results

Sound level

Noise sensitive area No.	Name	Y	X	Z	Immission height	Demands Noise	Sound level From WTGs	Distance to noise demand	Demands fulfilled ? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[m]	
A	Sklypas/40 m saugotina aplinka: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)	504 811	6 112 812	60,0	1,5	45,0	38,5	379	Yes

To be continued on next page...

DECIBEL - Main Result

Calculation: Suminis: Planuojamos+ Foninës VE

...continued from previous page

Noise sensitive area

No.	Name	Y	X	Z	Immission height	Demands Noise	Sound level From WTGs	Distance to noise demand	Demands fulfilled ? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[m]	
B	Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (2)	504 817	6 112 855	60,0	1,5	45,0	37,9	422	Yes
C	Sklypas/40 m saugotina aplinka: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (3)	504 867	6 112 873	60,0	1,5	45,0	37,7	438	Yes
D	Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (4)	504 839	6 112 938	60,0	1,5	45,0	36,8	505	Yes
E	Sklypas/40 m saugotina aplinka: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (5)	504 820	6 113 012	60,0	1,5	45,0	35,9	579	Yes
F	Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (6)	504 857	6 113 018	60,0	1,5	45,0	35,9	583	Yes
G	Sklypas/40 m saugotina aplinka: Neturi adreso (7)	504 751	6 112 953	60,0	1,5	45,0	36,6	518	Yes
H	Gyvenamasis pastatas: Neturi adreso (8)	504 749	6 113 003	60,0	1,5	45,0	36,0	568	Yes
I	Sklypas/40 m saugotina aplinka: Neturi adreso (9)	505 183	6 111 341	70,0	1,5	45,0	35,9	561	Yes
J	Gyvenamasis pastatas: Neturi adreso (10)	505 193	6 111 302	70,0	1,5	45,0	35,4	601	Yes
K	Sklypas/40 m saugotina aplinka: Neturi adreso (11)	505 295	6 111 391	64,2	1,5	45,0	35,9	535	Yes
L	Gyvenamasis pastatas: Neturi adreso (12)	505 303	6 111 351	63,6	1,5	45,0	35,5	575	Yes
M	Sklypas/40 m saugotina aplinka: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (13)	506 046	6 111 197	60,0	1,5	45,0	30,7	1 124	Yes
N	Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (14)	506 074	6 111 169	60,0	1,5	45,0	30,5	1 164	Yes
O	Sklypas/40 m saugotina aplinka: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (15)	506 167	6 111 280	60,0	1,5	45,0	30,4	1 153	Yes
P	Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (16)	506 175	6 111 241	60,0	1,5	45,0	30,3	1 185	Yes
Q	Sklypas/40 m saugotina aplinka: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (17)	506 288	6 113 243	60,0	1,5	45,0	29,4	1 367	Yes
R	Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (18)	506 325	6 113 257	60,0	1,5	45,0	29,3	1 404	Yes
S	Sklypas/40 m saugotina aplinka: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (19)	506 612	6 113 334	60,0	1,5	45,0	28,5	1 676	Yes
T	Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (20)	506 632	6 113 377	60,0	1,5	45,0	28,5	1 717	Yes
U	Sklypas/40 m saugotina aplinka: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (21)	506 955	6 115 882	60,0	1,5	45,0	27,1	2 066	Yes
V	Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (22)	506 986	6 115 906	60,0	1,5	45,0	27,1	2 051	Yes
W	Sklypas/40 m saugotina aplinka: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (23)	507 511	6 115 174	60,0	1,5	45,0	30,2	1 270	Yes
X	Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (24)	507 555	6 115 201	60,0	1,5	45,0	30,4	1 235	Yes
Y	Sklypas/40 m saugotina aplinka: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (25)	512 910	6 116 267	63,4	1,5	45,0	35,0	826	Yes
Z	Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (26)	512 944	6 116 258	64,3	1,5	45,0	34,9	846	Yes
AA	Sklypas/40 m saugotina aplinka: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (27)	512 998	6 116 279	66,3	1,5	45,0	34,6	901	Yes
AB	Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (28)	513 024	6 116 250	66,7	1,5	45,0	34,5	904	Yes
AC	Sklypas/40 m saugotina aplinka: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (29)	514 808	6 119 024	70,0	1,5	45,0	33,5	689	Yes
AD	Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (30)	514 833	6 118 996	70,0	1,5	45,0	33,2	725	Yes
AE	Sklypas/40 m saugotina aplinka: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (31)	514 882	6 119 114	70,0	1,5	45,0	33,3	711	Yes
AF	Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (32)	514 878	6 119 076	70,0	1,5	45,0	33,2	724	Yes
AG	Sklypas/40 m saugotina aplinka: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (33)	514 932	6 119 175	70,0	1,5	45,0	33,0	737	Yes
AH	Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (34)	514 963	6 119 150	70,0	1,5	45,0	32,7	774	Yes
AI	Sklypas/40 m saugotina aplinka: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (35)	513 583	6 120 316	70,0	1,5	45,0	37,8	477	Yes
AJ	Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (36)	513 588	6 120 356	69,7	1,5	45,0	38,0	437	Yes
AK	Sklypas/40 m saugotina aplinka: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (37)	513 847	6 121 627	60,0	1,5	45,0	37,4	358	Yes
AL	Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (38)	513 846	6 121 657	60,0	1,5	45,0	36,9	388	Yes
AM	Sklypas/40 m saugotina aplinka: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (39)	515 168	6 121 376	70,0	1,5	45,0	29,6	1 192	Yes
AN	Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (40)	515 192	6 121 383	70,0	1,5	45,0	29,4	1 217	Yes

Distances (m)

NSA	WTG 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	696	692	7878	7885	8189	9007	9461	11327	10776	12162	11669	12185	9645	9036	9397	4588	5187	5746	8774	8256	8032	8219
B	734	735	7851	7855	8156	8974	9427	11297	10741	12129	11655	12170	9636	9026	9391	4565	5165	5735	8766	8252	8025	8209
C	736	768	7799	7804	8107	8924	9378	11245	10693	12080	11603	12118	9585	8975	9341	4512	5112	5683	8716	8203	7975	8158
D	806	821	7789	7789	8085	8902	9355	11230	10667	12056	11618	12132	9609	8997	9369	4511	5113	5703	8742	8234	8002	8181
E	882	888	7768	7762	8052	8868	9320	11203	10629	12021	11623	12136	9624	9010	9388	4500	5104	5714	8759	8258	8020	8195
F	878	903	7733	7729	8019	8836	9288	11169	10598	11990	11586	12098	9587	8972	9352	4463	5067	5677	8722	8221	7983	8157
G	849	817	7858	7853	8142	8959	9411	11293	10719	12112	11702	12215	9696	9083	9457	4586	5189	5789	8829	8323	8089	8268
H	896	866	7834	7826	8112	8928	9379	11266	10686	12080	11695	12207	9695	9081	9459	4569	5173	5786	8830	8328	8091	8266
I	832	987	8451	8556	8983	9801	10268	11972	11625	12951	11687	12223	9492	8939	9159	5091	5625	5772	8596	7957	7847	8118
J	872	1025	8469	8576	9007	9825	10291	11991	11650	12974	11690	12227	9492	8940	9156	5110	5642	5778	8595	7952	7846	8119
K	807	1018	8334	8441	8873	9691	10157	11856	11516	12839	11565	12101	9372	8818	9040	4974	5506	5649	8476	7839	7727	7997
L	848	1053	8354	8464	8899	9716	10183	11877	11543	12864	11570	12107	9373	8821	9039	4995	5525	5657	8477	7836	7728	8000
M	1378	1719	7926	8080	8572	9382	9852	11456	11225	12508	10923	11463	8690	8153	8338	4595	5081	5053	7792	7127	7044	7336
N	1417	1757	7926	8083	8579	9388	9858	11457	11232	12513	10907	11447	8670	8135	8316	4599	5082	5041	7772	7105	7024	7318
O	1413	1779	7782	7939	8435	9244	9714	11313	11088	12368	10780	11320	8552	8012	8203	4454	4938	4907	7653	6994	6905	7195
P	1444	1805	7805	7964	8462	9271	9741	11335	11116	12394	10787	11327	8554	8017	8203	4479	4960	4918	7656	6993	6908	7199
Q	1630	2000	6405	6452	6826	7646	8109	9891	9455	10803	10137	10651	8148	7529	7927	3075	3664	4231	7289	6816	6554	6716
R	1667	2039	6366	6415	6791	7610	8073	9853	9420	10767	10098	10612	8110	7491	7890	3036	3624	4193	7252	6781	6517	6678
S	1939	2323	6088	6147	6540	7360	7824	9583	9177	10514	9802	10315	7822	7200	7608	2748	3333	3902	6966	6505	6233	6389
T	1981	2362	6047	6104	6495	7314	7779	9540	9131	10469	9775	10287	7801	7178	7590	2709	3296	3879	6947	6491	6215	6367
U	4170	4408	4698	4530	4637	5431	5862	7884	7119	8545	9340	9785	7856	7184	7841	2324	2825	4239	7145	6995	6527	6480
V	4206	4444	4663	4492	4598	5392	5823	7846	7080	8506	9312	9755	7834	7162	7821	2309	2805	4226	7126	6980	6509	6460
W	3878	4189	4386	4328	4601	5419	5874	7760	7199	8575	8749	9217	7127	6460	7071	1530	2097	3399	6379	6173	5733	5724
X	3927	4239	4335	4276	4550	5368	5824	7709	7149	8525	8706	9172	7091	6423	7038	1496	2058	3373	6346	6146	5702	5690
Y	8854	9263	1514	2033	2760	2891	3144	3366	4185	4840	3557	3921	3182	2710	3606	4223	3620	3614	3142	3804	3209	2729
Z	8880	9290	1548	2066	2791	2915	3165	3364	4198	4843	3522	3886	3158	2691	3585	4251	3648	3630	3126	3793	3201	2719
AA	8937	9348	1589	2100	2815	2924	3165	3328	4184	4813	3479	3838	3151	2694	3586	4309	3706	3682	3136	3813	3225	2740
AB	8947	9358	1625	2138	2854	2962	3202	3348	4216	4838	3444	3806	3114	2659	3550	4323	3719	3679	3103	3784	3197	2711
AC	11917	12298	3895	3938	3933	3286	3029	935	2756	2255	4215	4135	5565	5412	6152	7241	6693	6949	5957	6788	6283	5777
AD	11921	12303	3901	3949	3952	3309	3056	970	2792	2291	4180	4098	5539	5389	6126	7244	6695	6942	5935	6767	6264	5758

To be continued on next page...

DECIBEL - Main Result

Calculation: Suminis: Planuojamos+ Foninės VE

...continued from previous page

	WTG																				
NSA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
AE	12029	12410	4006	4043	4025	3367	3099	966	2776	2211	4275	4181	5660	5514	6249	7354	6807	7065	6061	6894	6392	5886
AF	12004	12385	3982	4023	4012	3359	3096	976	2791	2242	4241	4149	5622	5476	6211	7328	6780	7033	6023	6856	6355	5848
AG	12105	12485	4081	4114	4087	3422	3148	993	2792	2185	4317	4215	5725	5584	6315	7430	6884	7144	6131	6966	6466	5959
AH	12116	12497	4094	4131	4112	3451	3179	1030	2831	2223	4284	4179	5703	5566	6294	7440	6893	7144	6114	6951	6452	5946
AI	11791	12133	3975	3753	3360	2548	2116	946	1153	738	5892	5868	6897	6613	7441	7238	6779	7417	7120	7868	7297	6803
AJ	11823	12163	4012	3788	3389	2576	2141	980	1155	698	5926	5899	6936	6653	7480	7272	6815	7455	7160	7908	7337	6843
AK	12911	13235	5254	4978	4468	3650	3184	2173	1855	603	6990	6896	8176	7921	8733	8441	8013	8725	8436	9196	8629	8133
AL	12933	13255	5281	5003	4490	3673	3206	2203	1874	633	7019	6924	8206	7951	8763	8465	8038	8752	8466	9225	8659	8163
AM	13674	14021	5757	5604	5262	4454	4022	2257	2895	1436	6404	6214	7939	7790	8529	9082	8596	9095	8334	9157	8639	8133
AN	13696	14044	5778	5625	5286	4478	4046	2275	2920	1461	6406	6215	7948	7801	8539	9103	8617	9113	8346	9170	8652	8146

	WTG															
NSA	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
A	9374	5223	5643	5654	5150	4918	4647	5131	5422	7163	6532	7556	7881	7301	7321	6793
B	9361	5267	5686	5696	5193	4960	4691	5120	5405	7151	6514	7537	7860	7279	7296	6765
C	9309	5292	5707	5711	5211	4970	4712	5068	5353	7100	6461	7484	7807	7226	7243	6713
D	9327	5352	5770	5778	5276	5038	4775	5088	5364	7120	6470	7492	7811	7226	7239	6703
E	9335	5423	5843	5853	5350	5114	4848	5100	5365	7131	6469	7490	7803	7216	7224	6680
F	9298	5434	5851	5857	5356	5115	4856	5063	5327	7094	6431	7453	7766	7179	7188	6646
G	9412	5356	5780	5799	5293	5067	4786	5174	5445	7206	6551	7573	7888	7302	7311	6770
H	9407	5405	5830	5849	5343	5117	4835	5171	5436	7203	6540	7561	7873	7285	7291	6746
I	9365	3855	4224	4171	3687	3408	3229	5179	5656	7140	6774	7787	8199	7689	7805	7410
J	9368	3820	4187	4132	3649	3368	3192	5186	5667	7143	6784	7797	8211	7703	7821	7430
K	9243	3935	4293	4223	3746	3446	3301	5057	5534	7017	6652	7664	8077	7568	7686	7295
L	9248	3899	4256	4183	3707	3405	3263	5066	5548	7023	6665	7677	8092	7585	7705	7317
M	8602	4048	4321	4121	3708	3267	3367	4480	5020	6388	6121	7117	7560	7086	7244	6921
N	8586	4037	4305	4100	3690	3243	3354	4470	5014	6373	6114	7109	7554	7082	7243	6924
O	8460	4179	4443	4229	3825	3368	3496	4333	4873	6244	5974	6971	7414	6939	7099	6779
P	8466	4149	4410	4193	3791	3330	3465	4346	4890	6252	5990	6985	7430	6958	7120	6804
Q	7849	6012	6334	6175	5745	5328	5356	3618	3884	5648	4994	6017	6348	5777	5818	5333
R	7810	6039	6358	6196	5767	5347	5381	3580	3844	5610	4954	5978	6309	5737	5779	5295
S	7516	6219	6521	6331	5918	5468	5553	3289	3547	5318	4657	5681	6014	5445	5492	5021
T	7490	6267	6569	6377	5965	5514	5600	3267	3517	5295	4625	5649	5979	5408	5453	4978
U	7279	8721	9055	8894	8467	8038	8073	3796	3502	5414	4275	5137	5222	4565	4374	3633
V	7254	8754	9086	8924	8498	8066	8105	3788	3486	5395	4252	5110	5192	4535	4341	3599
W	6608	8266	8559	8340	7945	7462	7597	2924	2702	4640	3584	4515	4682	4039	3935	3292
X	6568	8309	8600	8378	7985	7500	7639	2905	2671	4607	3544	4472	4636	3992	3885	3241
Y	2268	12319	12415	11945	11741	11062	11626	4102	3517	2740	2422	1500	978	1506	1595	2376
Z	2243	12337	12431	11961	11758	11078	11644	4121	3539	2744	2442	1513	998	1534	1628	2411
AA	2235	12390	12484	12012	11810	11130	11697	4176	3596	2784	2497	1563	1054	1592	1683	2463
AB	2197	12389	12480	12007	11807	11125	11696	4176	3601	2768	2500	1557	1057	1606	1708	2491
AC	4770	15618	15734	15279	15062	14392	14923	7405	6759	6047	5721	4847	4301	4680	4514	4980
AD	4746	15615	15730	15274	15057	14387	14920	7401	6757	6035	5716	4839	4294	4678	4515	4987
AE	4870	15735	15851	15396	15178	14509	15039	7521	6875	6162	5837	4964	4418	4796	4628	5090
AF	4832	15704	15819	15364	15147	14477	15009	7490	6845	6127	5806	4930	4385	4766	4601	5067
AG	4939	15814	15929	15475	15257	14588	15118	7600	6954	6239	5916	5042	4496	4875	4705	5164
AH	4920	15816	15931	15475	15259	14588	15121	7602	6958	6233	5918	5040	4496	4879	4713	5178
AI	6022	15823	15999	15609	15335	14709	15127	7764	7040	6810	6156	5486	4897	5059	4732	4914
AJ	6062	15858	16035	15646	15371	14746	15162	7802	7077	6850	6194	5526	4937	5098	4769	4949
AK	7318	17042	17235	16863	16575	15962	16347	9052	8318	8146	7466	6820	6230	6371	6023	6137
AL	7348	17066	17259	16888	16599	15987	16371	9079	8344	8175	7494	6848	6259	6398	6049	6162
AM	7149	17632	17788	17374	17120	16477	16935	9492	8794	8325	7838	7059	6484	6751	6482	6754
AN	7160	17653	17808	17393	17140	16497	16956	9511	8814	8340	7856	7076	6501	6770	6502	6775

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Assumptions

Calculated L(DW) = LWA,ref + K + Dc - (Adiv + Aatm + Agr + Abar + Amisc) - Cmet
(when calculated with ground attenuation, then Dc = Domega)

LWA,ref:	Sound pressure level at WTG
K:	Pure tone
Dc:	Directivity correction
Adiv:	the attenuation due to geometrical divergence
Aatm:	the attenuation due to atmospheric absorption
Agr:	the attenuation due to ground effect
Abar:	the attenuation due to a barrier
Amisc:	the attenuation due to miscellaneous other effects
Cmet:	Meteorological correction

Calculation Results

Noise sensitive area: A Sklypas/40 m saugotina aplinka: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	696	708	35,36	106,9	0,00	68,00	-	-	0,00	0,00	-
10	12 162	12 163	1,49	106,9	0,00	92,70	-	-	0,00	0,00	-
11	11 669	11 671	1,00	107,0	0,00	92,34	-	-	0,00	0,00	-
12	12 185	12 186	0,53	107,0	0,00	92,72	-	-	0,00	0,00	-
13	9 645	9 646	3,11	107,0	0,00	90,69	-	-	0,00	0,00	-
14	9 036	9 038	3,84	107,0	0,00	90,12	-	-	0,00	0,00	-
15	9 397	9 399	3,40	107,0	0,00	90,46	-	-	0,00	0,00	-
16	4 588	4 591	11,87	107,0	0,00	84,24	-	-	0,00	0,00	-
17	5 187	5 190	10,25	107,0	0,00	85,30	-	-	0,00	0,00	-
18	5 746	5 749	9,03	107,0	0,00	86,19	-	-	0,00	0,00	-
19	8 774	8 776	4,17	107,0	0,00	89,87	-	-	0,00	0,00	-
2	692	705	35,40	106,9	0,00	67,97	-	-	0,00	0,00	-
20	8 256	8 257	2,42	104,0	0,00	89,34	-	-	0,00	0,00	-
21	8 032	8 034	2,74	104,0	0,00	89,10	-	-	0,00	0,00	-
22	8 219	8 220	2,48	104,0	0,00	89,30	-	-	0,00	0,00	-
23	9 374	9 375	0,97	104,0	0,00	90,44	-	-	0,00	0,00	-
24	5 223	5 226	8,72	106,0	0,00	85,36	-	-	0,00	0,00	-
25	5 643	5 645	7,81	106,0	0,00	86,03	-	-	0,00	0,00	-
26	5 654	5 656	7,79	106,0	0,00	86,05	-	-	0,00	0,00	-
27	5 150	5 153	8,88	106,0	0,00	85,24	-	-	0,00	0,00	-
28	4 918	4 921	9,45	106,0	0,00	84,84	-	-	0,00	0,00	-
29	4 647	4 651	10,21	106,0	0,00	84,35	-	-	0,00	0,00	-
3	7 878	7 880	6,46	106,9	0,00	88,93	-	-	0,00	0,00	-
30	5 131	5 134	8,34	104,0	0,00	85,21	-	-	0,00	0,00	-
31	5 422	5 425	7,67	104,0	0,00	85,69	-	-	0,00	0,00	-
32	7 163	7 165	4,29	104,0	0,00	88,10	-	-	0,00	0,00	-
33	6 532	6 535	5,41	104,0	0,00	87,30	-	-	0,00	0,00	-
34	7 556	7 558	3,64	104,0	0,00	88,57	-	-	0,00	0,00	-
35	7 881	7 883	3,14	104,0	0,00	88,93	-	-	0,00	0,00	-
36	7 301	7 303	4,06	104,0	0,00	88,27	-	-	0,00	0,00	-
37	7 321	7 323	4,03	104,0	0,00	88,29	-	-	0,00	0,00	-
38	6 793	6 795	4,93	104,0	0,00	87,64	-	-	0,00	0,00	-
4	7 885	7 886	6,45	106,9	0,00	88,94	-	-	0,00	0,00	-
5	8 189	8 190	6,02	106,9	0,00	89,27	-	-	0,00	0,00	-
6	9 007	9 008	4,92	106,9	0,00	90,09	-	-	0,00	0,00	-
7	9 461	9 462	4,36	106,9	0,00	90,52	-	-	0,00	0,00	-
8	11 327	11 327	2,30	106,9	0,00	92,08	-	-	0,00	0,00	-
9	10 776	10 777	2,87	106,9	0,00	91,65	-	-	0,00	0,00	-
Sum			38,48								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: B Gyvenamasis pastatas: Barsukinės k. 8, Þeimiø sen., Jonavos r. sav. (2)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	734	746	34,79	106,9	0,00	68,45	-	-	0,00	0,00	-
10	12 129	12 129	1,53	106,9	0,00	92,68	-	-	0,00	0,00	-
11	11 655	11 656	1,02	107,0	0,00	92,33	-	-	0,00	0,00	-
12	12 170	12 171	0,54	107,0	0,00	92,71	-	-	0,00	0,00	-
13	9 636	9 637	3,12	107,0	0,00	90,68	-	-	0,00	0,00	-
14	9 026	9 028	3,85	107,0	0,00	90,11	-	-	0,00	0,00	-
15	9 391	9 393	3,41	107,0	0,00	90,46	-	-	0,00	0,00	-
16	4 565	4 568	11,94	107,0	0,00	84,19	-	-	0,00	0,00	-
17	5 165	5 168	10,30	107,0	0,00	85,27	-	-	0,00	0,00	-
18	5 735	5 737	9,06	107,0	0,00	86,17	-	-	0,00	0,00	-
19	8 766	8 768	4,18	107,0	0,00	89,86	-	-	0,00	0,00	-
2	735	747	34,76	106,9	0,00	68,47	-	-	0,00	0,00	-
20	8 252	8 253	2,43	104,0	0,00	89,33	-	-	0,00	0,00	-
21	8 025	8 027	2,75	104,0	0,00	89,09	-	-	0,00	0,00	-
22	8 209	8 211	2,49	104,0	0,00	89,29	-	-	0,00	0,00	-
23	9 361	9 363	0,98	104,0	0,00	90,43	-	-	0,00	0,00	-
24	5 267	5 270	8,62	106,0	0,00	85,44	-	-	0,00	0,00	-
25	5 686	5 689	7,72	106,0	0,00	86,10	-	-	0,00	0,00	-
26	5 696	5 699	7,70	106,0	0,00	86,12	-	-	0,00	0,00	-
27	5 193	5 196	8,78	106,0	0,00	85,31	-	-	0,00	0,00	-
28	4 960	4 963	9,34	106,0	0,00	84,91	-	-	0,00	0,00	-
29	4 691	4 694	10,09	106,0	0,00	84,43	-	-	0,00	0,00	-
3	7 851	7 852	6,50	106,9	0,00	88,90	-	-	0,00	0,00	-
30	5 120	5 122	8,36	104,0	0,00	85,19	-	-	0,00	0,00	-
31	5 405	5 408	7,71	104,0	0,00	85,66	-	-	0,00	0,00	-
32	7 151	7 153	4,31	104,0	0,00	88,09	-	-	0,00	0,00	-
33	6 514	6 516	5,44	104,0	0,00	87,28	-	-	0,00	0,00	-
34	7 537	7 539	3,67	104,0	0,00	88,55	-	-	0,00	0,00	-
35	7 860	7 862	3,17	104,0	0,00	88,91	-	-	0,00	0,00	-
36	7 279	7 280	4,10	104,0	0,00	88,24	-	-	0,00	0,00	-
37	7 296	7 298	4,07	104,0	0,00	88,26	-	-	0,00	0,00	-
38	6 765	6 767	4,98	104,0	0,00	87,61	-	-	0,00	0,00	-
4	7 855	7 856	6,50	106,9	0,00	88,90	-	-	0,00	0,00	-
5	8 156	8 157	6,06	106,9	0,00	89,23	-	-	0,00	0,00	-
6	8 974	8 975	4,96	106,9	0,00	90,06	-	-	0,00	0,00	-
7	9 427	9 428	4,40	106,9	0,00	90,49	-	-	0,00	0,00	-
8	11 297	11 297	2,33	106,9	0,00	92,06	-	-	0,00	0,00	-
9	10 741	10 742	2,91	106,9	0,00	91,62	-	-	0,00	0,00	-
Sum			37,90								

- Data undefined due to calculation with octave data

Noise sensitive area: C Sklypas/40 m saugotina aplinka: Barsukinės k. 6, Þeimiø sen., Jonavos r. sav. (3)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	736	748	34,76	106,9	0,00	68,47	-	-	0,00	0,00	-
10	12 080	12 080	1,57	106,9	0,00	92,64	-	-	0,00	0,00	-
11	11 603	11 604	1,07	107,0	0,00	92,29	-	-	0,00	0,00	-
12	12 118	12 119	0,59	107,0	0,00	92,67	-	-	0,00	0,00	-
13	9 585	9 586	3,18	107,0	0,00	90,63	-	-	0,00	0,00	-
14	8 975	8 976	3,91	107,0	0,00	90,06	-	-	0,00	0,00	-
15	9 341	9 342	3,47	107,0	0,00	90,41	-	-	0,00	0,00	-
16	4 512	4 515	12,10	107,0	0,00	84,09	-	-	0,00	0,00	-
17	5 112	5 114	10,42	107,0	0,00	85,18	-	-	0,00	0,00	-
18	5 683	5 686	9,17	107,0	0,00	86,10	-	-	0,00	0,00	-
19	8 716	8 717	4,24	107,0	0,00	89,81	-	-	0,00	0,00	-
2	768	779	34,31	106,9	0,00	68,83	-	-	0,00	0,00	-
20	8 203	8 204	2,50	104,0	0,00	89,28	-	-	0,00	0,00	-
21	7 975	7 976	2,82	104,0	0,00	89,04	-	-	0,00	0,00	-
22	8 158	8 159	2,56	104,0	0,00	89,23	-	-	0,00	0,00	-
23	9 309	9 310	1,04	104,0	0,00	90,38	-	-	0,00	0,00	-
24	5 292	5 294	8,56	106,0	0,00	85,48	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
25	5 707	5 710	7,68	106,0	0,00	86,13	-	-	0,00	0,00	-
26	5 711	5 714	7,67	106,0	0,00	86,14	-	-	0,00	0,00	-
27	5 211	5 213	8,75	106,0	0,00	85,34	-	-	0,00	0,00	-
28	4 970	4 973	9,31	106,0	0,00	84,93	-	-	0,00	0,00	-
29	4 712	4 715	10,03	106,0	0,00	84,47	-	-	0,00	0,00	-
3	7 799	7 800	6,58	106,9	0,00	88,84	-	-	0,00	0,00	-
30	5 068	5 071	8,49	104,0	0,00	85,10	-	-	0,00	0,00	-
31	5 353	5 355	7,83	104,0	0,00	85,58	-	-	0,00	0,00	-
32	7 100	7 102	4,40	104,0	0,00	88,03	-	-	0,00	0,00	-
33	6 461	6 463	5,54	104,0	0,00	87,21	-	-	0,00	0,00	-
34	7 484	7 486	3,76	104,0	0,00	88,49	-	-	0,00	0,00	-
35	7 807	7 809	3,25	104,0	0,00	88,85	-	-	0,00	0,00	-
36	7 226	7 227	4,19	104,0	0,00	88,18	-	-	0,00	0,00	-
37	7 243	7 245	4,16	104,0	0,00	88,20	-	-	0,00	0,00	-
38	6 713	6 715	5,08	104,0	0,00	87,54	-	-	0,00	0,00	-
4	7 804	7 805	6,57	106,9	0,00	88,85	-	-	0,00	0,00	-
5	8 107	8 108	6,13	106,9	0,00	89,18	-	-	0,00	0,00	-
6	8 924	8 925	5,03	106,9	0,00	90,01	-	-	0,00	0,00	-
7	9 378	9 379	4,46	106,9	0,00	90,44	-	-	0,00	0,00	-
8	11 245	11 246	2,38	106,9	0,00	92,02	-	-	0,00	0,00	-
9	10 693	10 694	2,96	106,9	0,00	91,58	-	-	0,00	0,00	-
Sum			37,67								

- Data undefined due to calculation with octave data

Noise sensitive area: D Gyvenamasis pastatas: Barsukinės k. 6, Þeimiø sen., Jonavos r. sav. (4)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	806	817	33,78	106,9	0,00	69,24	-	-	0,00	0,00	-
10	12 056	12 057	1,59	106,9	0,00	92,62	-	-	0,00	0,00	-
11	11 618	11 619	1,05	107,0	0,00	92,30	-	-	0,00	0,00	-
12	12 132	12 133	0,58	107,0	0,00	92,68	-	-	0,00	0,00	-
13	9 609	9 610	3,15	107,0	0,00	90,65	-	-	0,00	0,00	-
14	8 997	8 998	3,89	107,0	0,00	90,08	-	-	0,00	0,00	-
15	9 369	9 371	3,43	107,0	0,00	90,44	-	-	0,00	0,00	-
16	4 511	4 514	12,10	107,0	0,00	84,09	-	-	0,00	0,00	-
17	5 113	5 116	10,42	107,0	0,00	85,18	-	-	0,00	0,00	-
18	5 703	5 706	9,12	107,0	0,00	86,13	-	-	0,00	0,00	-
19	8 742	8 743	4,21	107,0	0,00	89,83	-	-	0,00	0,00	-
2	821	832	33,58	106,9	0,00	69,40	-	-	0,00	0,00	-
20	8 234	8 236	2,45	104,0	0,00	89,31	-	-	0,00	0,00	-
21	8 002	8 003	2,79	104,0	0,00	89,06	-	-	0,00	0,00	-
22	8 181	8 182	2,53	104,0	0,00	89,26	-	-	0,00	0,00	-
23	9 327	9 328	1,02	104,0	0,00	90,40	-	-	0,00	0,00	-
24	5 352	5 355	8,43	106,0	0,00	85,58	-	-	0,00	0,00	-
25	5 770	5 773	7,55	106,0	0,00	86,23	-	-	0,00	0,00	-
26	5 778	5 780	7,54	106,0	0,00	86,24	-	-	0,00	0,00	-
27	5 276	5 279	8,60	106,0	0,00	85,45	-	-	0,00	0,00	-
28	5 038	5 041	9,14	106,0	0,00	85,05	-	-	0,00	0,00	-
29	4 775	4 778	9,85	106,0	0,00	84,58	-	-	0,00	0,00	-
3	7 789	7 791	6,60	106,9	0,00	88,83	-	-	0,00	0,00	-
30	5 088	5 091	8,44	104,0	0,00	85,14	-	-	0,00	0,00	-
31	5 364	5 366	7,80	104,0	0,00	85,59	-	-	0,00	0,00	-
32	7 120	7 122	4,36	104,0	0,00	88,05	-	-	0,00	0,00	-
33	6 470	6 472	5,52	104,0	0,00	87,22	-	-	0,00	0,00	-
34	7 492	7 494	3,75	104,0	0,00	88,49	-	-	0,00	0,00	-
35	7 810	7 812	3,24	104,0	0,00	88,86	-	-	0,00	0,00	-
36	7 226	7 228	4,18	104,0	0,00	88,18	-	-	0,00	0,00	-
37	7 239	7 241	4,16	104,0	0,00	88,20	-	-	0,00	0,00	-
38	6 703	6 705	5,10	104,0	0,00	87,53	-	-	0,00	0,00	-
4	7 789	7 790	6,60	106,9	0,00	88,83	-	-	0,00	0,00	-
5	8 085	8 086	6,16	106,9	0,00	89,15	-	-	0,00	0,00	-
6	8 902	8 903	5,06	106,9	0,00	89,99	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
7	9 355	9 356	4,49	106,9	0,00	90,42	-	-	0,00	0,00	-
8	11 230	11 231	2,40	106,9	0,00	92,01	-	-	0,00	0,00	-
9	10 667	10 668	2,99	106,9	0,00	91,56	-	-	0,00	0,00	-
Sum			36,83								

- Data undefined due to calculation with octave data

Noise sensitive area: E Sklypas/40 m saugotina aplinka: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (5)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	882	892	32,80	106,9	0,00	70,01	-	-	0,00	0,00	-
10	12 021	12 022	1,63	106,9	0,00	92,60	-	-	0,00	0,00	-
11	11 623	11 625	1,05	107,0	0,00	92,31	-	-	0,00	0,00	-
12	12 136	12 137	0,57	107,0	0,00	92,68	-	-	0,00	0,00	-
13	9 624	9 626	3,13	107,0	0,00	90,67	-	-	0,00	0,00	-
14	9 010	9 011	3,87	107,0	0,00	90,10	-	-	0,00	0,00	-
15	9 388	9 390	3,41	107,0	0,00	90,45	-	-	0,00	0,00	-
16	4 500	4 503	12,13	107,0	0,00	84,07	-	-	0,00	0,00	-
17	5 104	5 106	10,44	107,0	0,00	85,16	-	-	0,00	0,00	-
18	5 714	5 717	9,10	107,0	0,00	86,14	-	-	0,00	0,00	-
19	8 759	8 760	4,19	107,0	0,00	89,85	-	-	0,00	0,00	-
2	888	898	32,72	106,9	0,00	70,07	-	-	0,00	0,00	-
20	8 258	8 259	2,42	104,0	0,00	89,34	-	-	0,00	0,00	-
21	8 020	8 021	2,76	104,0	0,00	89,08	-	-	0,00	0,00	-
22	8 195	8 196	2,51	104,0	0,00	89,27	-	-	0,00	0,00	-
23	9 335	9 336	1,01	104,0	0,00	90,40	-	-	0,00	0,00	-
24	5 423	5 426	8,28	106,0	0,00	85,69	-	-	0,00	0,00	-
25	5 843	5 845	7,41	106,0	0,00	86,34	-	-	0,00	0,00	-
26	5 853	5 855	7,39	106,0	0,00	86,35	-	-	0,00	0,00	-
27	5 350	5 353	8,44	106,0	0,00	85,57	-	-	0,00	0,00	-
28	5 114	5 117	8,97	106,0	0,00	85,18	-	-	0,00	0,00	-
29	4 848	4 851	9,65	106,0	0,00	84,72	-	-	0,00	0,00	-
3	7 768	7 770	6,63	106,9	0,00	88,81	-	-	0,00	0,00	-
30	5 100	5 103	8,41	104,0	0,00	85,16	-	-	0,00	0,00	-
31	5 365	5 367	7,80	104,0	0,00	85,60	-	-	0,00	0,00	-
32	7 131	7 133	4,34	104,0	0,00	88,07	-	-	0,00	0,00	-
33	6 469	6 471	5,53	104,0	0,00	87,22	-	-	0,00	0,00	-
34	7 490	7 492	3,75	104,0	0,00	88,49	-	-	0,00	0,00	-
35	7 803	7 805	3,26	104,0	0,00	88,85	-	-	0,00	0,00	-
36	7 216	7 218	4,20	104,0	0,00	88,17	-	-	0,00	0,00	-
37	7 224	7 225	4,19	104,0	0,00	88,18	-	-	0,00	0,00	-
38	6 680	6 682	5,14	104,0	0,00	87,50	-	-	0,00	0,00	-
4	7 762	7 764	6,64	106,9	0,00	88,80	-	-	0,00	0,00	-
5	8 052	8 053	6,21	106,9	0,00	89,12	-	-	0,00	0,00	-
6	8 868	8 869	5,10	106,9	0,00	89,96	-	-	0,00	0,00	-
7	9 320	9 321	4,53	106,9	0,00	90,39	-	-	0,00	0,00	-
8	11 203	11 204	2,43	106,9	0,00	91,99	-	-	0,00	0,00	-
9	10 629	10 630	3,03	106,9	0,00	91,53	-	-	0,00	0,00	-
Sum			35,94								

- Data undefined due to calculation with octave data

Noise sensitive area: F Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (6)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	878	889	32,85	106,9	0,00	69,97	-	-	0,00	0,00	-
10	11 990	11 990	1,66	106,9	0,00	92,58	-	-	0,00	0,00	-
11	11 586	11 587	1,08	107,0	0,00	92,28	-	-	0,00	0,00	-
12	12 098	12 100	0,61	107,0	0,00	92,66	-	-	0,00	0,00	-
13	9 587	9 588	3,18	107,0	0,00	90,63	-	-	0,00	0,00	-
14	8 972	8 974	3,92	107,0	0,00	90,06	-	-	0,00	0,00	-
15	9 352	9 353	3,45	107,0	0,00	90,42	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
16	4 463	4 466	12,24	107,0	0,00	84,00	-	-	0,00	0,00	-
17	5 067	5 070	10,53	107,0	0,00	85,10	-	-	0,00	0,00	-
18	5 677	5 680	9,18	107,0	0,00	86,09	-	-	0,00	0,00	-
19	8 722	8 723	4,23	107,0	0,00	89,81	-	-	0,00	0,00	-
2	903	913	32,54	106,9	0,00	70,21	-	-	0,00	0,00	-
20	8 221	8 223	2,47	104,0	0,00	89,30	-	-	0,00	0,00	-
21	7 983	7 984	2,81	104,0	0,00	89,04	-	-	0,00	0,00	-
22	8 157	8 159	2,56	104,0	0,00	89,23	-	-	0,00	0,00	-
23	9 298	9 299	1,06	104,0	0,00	90,37	-	-	0,00	0,00	-
24	5 434	5 437	8,25	106,0	0,00	85,71	-	-	0,00	0,00	-
25	5 851	5 854	7,39	106,0	0,00	86,35	-	-	0,00	0,00	-
26	5 857	5 859	7,38	106,0	0,00	86,36	-	-	0,00	0,00	-
27	5 356	5 358	8,42	106,0	0,00	85,58	-	-	0,00	0,00	-
28	5 115	5 118	8,96	106,0	0,00	85,18	-	-	0,00	0,00	-
29	4 856	4 859	9,62	106,0	0,00	84,73	-	-	0,00	0,00	-
3	7 733	7 735	6,68	106,9	0,00	88,77	-	-	0,00	0,00	-
30	5 063	5 065	8,50	104,0	0,00	85,09	-	-	0,00	0,00	-
31	5 327	5 330	7,88	104,0	0,00	85,53	-	-	0,00	0,00	-
32	7 094	7 096	4,41	104,0	0,00	88,02	-	-	0,00	0,00	-
33	6 431	6 434	5,60	104,0	0,00	87,17	-	-	0,00	0,00	-
34	7 453	7 455	3,81	104,0	0,00	88,45	-	-	0,00	0,00	-
35	7 766	7 768	3,31	104,0	0,00	88,81	-	-	0,00	0,00	-
36	7 179	7 181	4,26	104,0	0,00	88,12	-	-	0,00	0,00	-
37	7 188	7 190	4,25	104,0	0,00	88,13	-	-	0,00	0,00	-
38	6 646	6 648	5,20	104,0	0,00	87,45	-	-	0,00	0,00	-
4	7 729	7 730	6,69	106,9	0,00	88,76	-	-	0,00	0,00	-
5	8 019	8 021	6,26	106,9	0,00	89,08	-	-	0,00	0,00	-
6	8 836	8 837	5,14	106,9	0,00	89,93	-	-	0,00	0,00	-
7	9 288	9 289	4,57	106,9	0,00	90,36	-	-	0,00	0,00	-
8	11 169	11 170	2,46	106,9	0,00	91,96	-	-	0,00	0,00	-
9	10 598	10 599	3,06	106,9	0,00	91,51	-	-	0,00	0,00	-
Sum			35,88								

- Data undefined due to calculation with octave data

Noise sensitive area: G Sklypas/40 m saugotina aplinka: Neturi adreso (7)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	849	859	33,22	106,9	0,00	69,68	-	-	0,00	0,00	-
10	12 112	12 113	1,54	106,9	0,00	92,66	-	-	0,00	0,00	-
11	11 702	11 703	0,97	107,0	0,00	92,37	-	-	0,00	0,00	-
12	12 215	12 216	0,50	107,0	0,00	92,74	-	-	0,00	0,00	-
13	9 696	9 697	3,05	107,0	0,00	90,73	-	-	0,00	0,00	-
14	9 083	9 085	3,78	107,0	0,00	90,17	-	-	0,00	0,00	-
15	9 457	9 459	3,33	107,0	0,00	90,52	-	-	0,00	0,00	-
16	4 586	4 589	11,87	107,0	0,00	84,23	-	-	0,00	0,00	-
17	5 189	5 192	10,24	107,0	0,00	85,31	-	-	0,00	0,00	-
18	5 789	5 792	8,95	107,0	0,00	86,26	-	-	0,00	0,00	-
19	8 829	8 831	4,10	107,0	0,00	89,92	-	-	0,00	0,00	-
2	817	827	33,64	106,9	0,00	69,35	-	-	0,00	0,00	-
20	8 323	8 324	2,33	104,0	0,00	89,41	-	-	0,00	0,00	-
21	8 089	8 091	2,66	104,0	0,00	89,16	-	-	0,00	0,00	-
22	8 268	8 269	2,41	104,0	0,00	89,35	-	-	0,00	0,00	-
23	9 412	9 413	0,92	104,0	0,00	90,47	-	-	0,00	0,00	-
24	5 356	5 359	8,42	106,0	0,00	85,58	-	-	0,00	0,00	-
25	5 780	5 783	7,53	106,0	0,00	86,24	-	-	0,00	0,00	-
26	5 799	5 801	7,50	106,0	0,00	86,27	-	-	0,00	0,00	-
27	5 293	5 296	8,56	106,0	0,00	85,48	-	-	0,00	0,00	-
28	5 067	5 070	9,07	106,0	0,00	85,10	-	-	0,00	0,00	-
29	4 786	4 789	9,82	106,0	0,00	84,60	-	-	0,00	0,00	-
3	7 858	7 859	6,49	106,9	0,00	88,91	-	-	0,00	0,00	-
30	5 174	5 177	8,24	104,0	0,00	85,28	-	-	0,00	0,00	-
31	5 445	5 448	7,62	104,0	0,00	85,72	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
32	7 206	7 208	4,22	104,0	0,00	88,16	-	-	0,00	0,00	-
33	6 551	6 553	5,37	104,0	0,00	87,33	-	-	0,00	0,00	-
34	7 573	7 575	3,62	104,0	0,00	88,59	-	-	0,00	0,00	-
35	7 888	7 890	3,12	104,0	0,00	88,94	-	-	0,00	0,00	-
36	7 302	7 304	4,06	104,0	0,00	88,27	-	-	0,00	0,00	-
37	7 311	7 313	4,04	104,0	0,00	88,28	-	-	0,00	0,00	-
38	6 770	6 772	4,98	104,0	0,00	87,61	-	-	0,00	0,00	-
4	7 853	7 854	6,50	106,9	0,00	88,90	-	-	0,00	0,00	-
5	8 142	8 143	6,08	106,9	0,00	89,22	-	-	0,00	0,00	-
6	8 959	8 960	4,98	106,9	0,00	90,05	-	-	0,00	0,00	-
7	9 411	9 412	4,42	106,9	0,00	90,47	-	-	0,00	0,00	-
8	11 293	11 294	2,34	106,9	0,00	92,06	-	-	0,00	0,00	-
9	10 719	10 720	2,93	106,9	0,00	91,60	-	-	0,00	0,00	-
Sum			36,59								

- Data undefined due to calculation with octave data

Noise sensitive area: H Gyvenamasis pastatas: Neturi adreso (8)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	896	906	32,63	106,9	0,00	70,14	-	-	0,00	0,00	-
10	12 080	12 081	1,57	106,9	0,00	92,64	-	-	0,00	0,00	-
11	11 695	11 696	0,98	107,0	0,00	92,36	-	-	0,00	0,00	-
12	12 207	12 209	0,51	107,0	0,00	92,73	-	-	0,00	0,00	-
13	9 695	9 697	3,05	107,0	0,00	90,73	-	-	0,00	0,00	-
14	9 081	9 083	3,78	107,0	0,00	90,16	-	-	0,00	0,00	-
15	9 459	9 461	3,33	107,0	0,00	90,52	-	-	0,00	0,00	-
16	4 569	4 572	11,93	107,0	0,00	84,20	-	-	0,00	0,00	-
17	5 173	5 176	10,28	107,0	0,00	85,28	-	-	0,00	0,00	-
18	5 786	5 788	8,95	107,0	0,00	86,25	-	-	0,00	0,00	-
19	8 830	8 832	4,10	107,0	0,00	89,92	-	-	0,00	0,00	-
2	866	876	33,01	106,9	0,00	69,85	-	-	0,00	0,00	-
20	8 328	8 329	2,32	104,0	0,00	89,41	-	-	0,00	0,00	-
21	8 091	8 092	2,66	104,0	0,00	89,16	-	-	0,00	0,00	-
22	8 266	8 268	2,41	104,0	0,00	89,35	-	-	0,00	0,00	-
23	9 407	9 408	0,93	104,0	0,00	90,47	-	-	0,00	0,00	-
24	5 405	5 408	8,31	106,0	0,00	85,66	-	-	0,00	0,00	-
25	5 830	5 832	7,44	106,0	0,00	86,32	-	-	0,00	0,00	-
26	5 849	5 851	7,40	106,0	0,00	86,34	-	-	0,00	0,00	-
27	5 343	5 346	8,45	106,0	0,00	85,56	-	-	0,00	0,00	-
28	5 117	5 120	8,96	106,0	0,00	85,18	-	-	0,00	0,00	-
29	4 835	4 839	9,68	106,0	0,00	84,69	-	-	0,00	0,00	-
3	7 834	7 836	6,53	106,9	0,00	88,88	-	-	0,00	0,00	-
30	5 171	5 174	8,24	104,0	0,00	85,28	-	-	0,00	0,00	-
31	5 436	5 438	7,64	104,0	0,00	85,71	-	-	0,00	0,00	-
32	7 203	7 205	4,22	104,0	0,00	88,15	-	-	0,00	0,00	-
33	6 540	6 542	5,40	104,0	0,00	87,31	-	-	0,00	0,00	-
34	7 561	7 563	3,64	104,0	0,00	88,57	-	-	0,00	0,00	-
35	7 873	7 875	3,15	104,0	0,00	88,92	-	-	0,00	0,00	-
36	7 285	7 287	4,09	104,0	0,00	88,25	-	-	0,00	0,00	-
37	7 291	7 293	4,08	104,0	0,00	88,26	-	-	0,00	0,00	-
38	6 746	6 748	5,02	104,0	0,00	87,58	-	-	0,00	0,00	-
4	7 826	7 827	6,54	106,9	0,00	88,87	-	-	0,00	0,00	-
5	8 112	8 113	6,13	106,9	0,00	89,18	-	-	0,00	0,00	-
6	8 928	8 929	5,02	106,9	0,00	90,02	-	-	0,00	0,00	-
7	9 379	9 380	4,46	106,9	0,00	90,44	-	-	0,00	0,00	-
8	11 266	11 267	2,36	106,9	0,00	92,04	-	-	0,00	0,00	-
9	10 686	10 687	2,97	106,9	0,00	91,58	-	-	0,00	0,00	-
Sum			36,00								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: I Sklypas/40 m saugotina aplinka: Neturi adreso (9)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	832	842	33,45	106,9	0,00	69,50	-	-	0,00	0,00	-
10	12 951	12 952	0,78	106,9	0,00	93,25	-	-	0,00	0,00	-
11	11 687	11 688	0,99	107,0	0,00	92,36	-	-	0,00	0,00	-
12	12 223	12 225	0,49	107,0	0,00	92,74	-	-	0,00	0,00	-
13	9 492	9 494	3,29	107,0	0,00	90,55	-	-	0,00	0,00	-
14	8 939	8 940	3,96	107,0	0,00	90,03	-	-	0,00	0,00	-
15	9 159	9 160	3,69	107,0	0,00	90,24	-	-	0,00	0,00	-
16	5 091	5 093	10,47	107,0	0,00	85,14	-	-	0,00	0,00	-
17	5 625	5 627	9,29	107,0	0,00	86,01	-	-	0,00	0,00	-
18	5 772	5 774	8,98	107,0	0,00	86,23	-	-	0,00	0,00	-
19	8 596	8 598	4,40	107,0	0,00	89,69	-	-	0,00	0,00	-
2	987	995	31,57	106,9	0,00	70,95	-	-	0,00	0,00	-
20	7 957	7 958	2,85	104,0	0,00	89,02	-	-	0,00	0,00	-
21	7 847	7 848	3,01	104,0	0,00	88,90	-	-	0,00	0,00	-
22	8 118	8 119	2,62	104,0	0,00	89,19	-	-	0,00	0,00	-
23	9 365	9 367	0,98	104,0	0,00	90,43	-	-	0,00	0,00	-
24	3 855	3 858	12,75	106,0	0,00	82,73	-	-	0,00	0,00	-
25	4 224	4 227	11,51	106,0	0,00	83,52	-	-	0,00	0,00	-
26	4 171	4 174	11,68	106,0	0,00	83,41	-	-	0,00	0,00	-
27	3 687	3 691	13,36	106,0	0,00	82,34	-	-	0,00	0,00	-
28	3 408	3 412	14,44	106,0	0,00	81,66	-	-	0,00	0,00	-
29	3 229	3 233	15,18	106,0	0,00	81,19	-	-	0,00	0,00	-
3	8 451	8 452	5,65	106,9	0,00	89,54	-	-	0,00	0,00	-
30	5 179	5 182	8,23	104,0	0,00	85,29	-	-	0,00	0,00	-
31	5 656	5 658	7,16	104,0	0,00	86,05	-	-	0,00	0,00	-
32	7 140	7 141	4,33	104,0	0,00	88,08	-	-	0,00	0,00	-
33	6 774	6 775	4,97	104,0	0,00	87,62	-	-	0,00	0,00	-
34	7 787	7 788	3,28	104,0	0,00	88,83	-	-	0,00	0,00	-
35	8 199	8 200	2,66	104,0	0,00	89,28	-	-	0,00	0,00	-
36	7 689	7 690	3,43	104,0	0,00	88,72	-	-	0,00	0,00	-
37	7 805	7 806	3,25	104,0	0,00	88,85	-	-	0,00	0,00	-
38	7 410	7 412	3,88	104,0	0,00	88,40	-	-	0,00	0,00	-
4	8 556	8 557	5,51	106,9	0,00	89,65	-	-	0,00	0,00	-
5	8 983	8 984	4,95	106,9	0,00	90,07	-	-	0,00	0,00	-
6	9 801	9 802	3,95	106,9	0,00	90,83	-	-	0,00	0,00	-
7	10 268	10 268	3,42	106,9	0,00	91,23	-	-	0,00	0,00	-
8	11 972	11 973	1,67	106,9	0,00	92,56	-	-	0,00	0,00	-
9	11 625	11 626	2,01	106,9	0,00	92,31	-	-	0,00	0,00	-
Sum			35,88								

- Data undefined due to calculation with octave data

Noise sensitive area: J Gyvenamasis pastatas: Neturi adreso (10)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	872	881	32,94	106,9	0,00	69,90	-	-	0,00	0,00	-
10	12 974	12 974	0,76	106,9	0,00	93,26	-	-	0,00	0,00	-
11	11 690	11 691	0,98	107,0	0,00	92,36	-	-	0,00	0,00	-
12	12 227	12 228	0,49	107,0	0,00	92,75	-	-	0,00	0,00	-
13	9 492	9 493	3,29	107,0	0,00	90,55	-	-	0,00	0,00	-
14	8 940	8 941	3,96	107,0	0,00	90,03	-	-	0,00	0,00	-
15	9 156	9 157	3,69	107,0	0,00	90,24	-	-	0,00	0,00	-
16	5 110	5 112	10,43	107,0	0,00	85,17	-	-	0,00	0,00	-
17	5 642	5 644	9,25	107,0	0,00	86,03	-	-	0,00	0,00	-
18	5 778	5 780	8,97	107,0	0,00	86,24	-	-	0,00	0,00	-
19	8 595	8 597	4,40	107,0	0,00	89,69	-	-	0,00	0,00	-
2	1 025	1 032	31,15	106,9	0,00	71,28	-	-	0,00	0,00	-
20	7 952	7 954	2,86	104,0	0,00	89,01	-	-	0,00	0,00	-
21	7 846	7 847	3,01	104,0	0,00	88,89	-	-	0,00	0,00	-
22	8 119	8 120	2,62	104,0	0,00	89,19	-	-	0,00	0,00	-
23	9 368	9 370	0,97	104,0	0,00	90,43	-	-	0,00	0,00	-
24	3 820	3 824	12,88	106,0	0,00	82,65	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
25	4 187	4 190	11,63	106,0	0,00	83,44	-	-	0,00	0,00	-
26	4 132	4 135	11,81	106,0	0,00	83,33	-	-	0,00	0,00	-
27	3 649	3 653	13,51	106,0	0,00	82,25	-	-	0,00	0,00	-
28	3 368	3 372	14,60	106,0	0,00	81,56	-	-	0,00	0,00	-
29	3 192	3 197	15,34	106,0	0,00	81,09	-	-	0,00	0,00	-
3	8 469	8 470	5,63	106,9	0,00	89,56	-	-	0,00	0,00	-
30	5 186	5 189	8,21	104,0	0,00	85,30	-	-	0,00	0,00	-
31	5 667	5 670	7,13	104,0	0,00	86,07	-	-	0,00	0,00	-
32	7 143	7 145	4,32	104,0	0,00	88,08	-	-	0,00	0,00	-
33	6 784	6 786	4,95	104,0	0,00	87,63	-	-	0,00	0,00	-
34	7 797	7 798	3,27	104,0	0,00	88,84	-	-	0,00	0,00	-
35	8 211	8 212	2,64	104,0	0,00	89,29	-	-	0,00	0,00	-
36	7 703	7 704	3,41	104,0	0,00	88,73	-	-	0,00	0,00	-
37	7 821	7 823	3,23	104,0	0,00	88,87	-	-	0,00	0,00	-
38	7 430	7 432	3,85	104,0	0,00	88,42	-	-	0,00	0,00	-
4	8 576	8 577	5,48	106,9	0,00	89,67	-	-	0,00	0,00	-
5	9 007	9 008	4,92	106,9	0,00	90,09	-	-	0,00	0,00	-
6	9 825	9 825	3,93	106,9	0,00	90,85	-	-	0,00	0,00	-
7	10 291	10 292	3,40	106,9	0,00	91,25	-	-	0,00	0,00	-
8	11 991	11 992	1,65	106,9	0,00	92,58	-	-	0,00	0,00	-
9	11 650	11 650	1,98	106,9	0,00	92,33	-	-	0,00	0,00	-
Sum			35,44								

- Data undefined due to calculation with octave data

Noise sensitive area: K Sklypas/40 m saugotina aplinka: Neturi adreso (11)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	807	818	33,77	106,9	0,00	69,25	-	-	0,00	0,00	-
10	12 839	12 840	0,88	106,9	0,00	93,17	-	-	0,00	0,00	-
11	11 565	11 566	1,10	107,0	0,00	92,26	-	-	0,00	0,00	-
12	12 101	12 102	0,60	107,0	0,00	92,66	-	-	0,00	0,00	-
13	9 372	9 374	3,43	107,0	0,00	90,44	-	-	0,00	0,00	-
14	8 818	8 819	4,11	107,0	0,00	89,91	-	-	0,00	0,00	-
15	9 040	9 042	3,83	107,0	0,00	90,13	-	-	0,00	0,00	-
16	4 974	4 977	10,77	107,0	0,00	84,94	-	-	0,00	0,00	-
17	5 506	5 509	9,54	107,0	0,00	85,82	-	-	0,00	0,00	-
18	5 649	5 651	9,24	107,0	0,00	86,04	-	-	0,00	0,00	-
19	8 476	8 478	4,55	107,0	0,00	89,57	-	-	0,00	0,00	-
2	1 018	1 026	31,22	106,9	0,00	71,22	-	-	0,00	0,00	-
20	7 839	7 840	3,02	104,0	0,00	88,89	-	-	0,00	0,00	-
21	7 727	7 728	3,19	104,0	0,00	88,76	-	-	0,00	0,00	-
22	7 997	7 998	2,79	104,0	0,00	89,06	-	-	0,00	0,00	-
23	9 243	9 245	1,13	104,0	0,00	90,32	-	-	0,00	0,00	-
24	3 935	3 939	12,47	106,0	0,00	82,91	-	-	0,00	0,00	-
25	4 293	4 297	11,28	106,0	0,00	83,66	-	-	0,00	0,00	-
26	4 223	4 226	11,51	106,0	0,00	83,52	-	-	0,00	0,00	-
27	3 746	3 750	13,14	106,0	0,00	82,48	-	-	0,00	0,00	-
28	3 446	3 450	14,29	106,0	0,00	81,76	-	-	0,00	0,00	-
29	3 301	3 305	14,88	106,0	0,00	81,38	-	-	0,00	0,00	-
3	8 334	8 335	5,81	106,9	0,00	89,42	-	-	0,00	0,00	-
30	5 057	5 059	8,52	104,0	0,00	85,08	-	-	0,00	0,00	-
31	5 534	5 537	7,42	104,0	0,00	85,86	-	-	0,00	0,00	-
32	7 017	7 019	4,54	104,0	0,00	87,93	-	-	0,00	0,00	-
33	6 652	6 654	5,19	104,0	0,00	87,46	-	-	0,00	0,00	-
34	7 664	7 666	3,47	104,0	0,00	88,69	-	-	0,00	0,00	-
35	8 077	8 079	2,84	104,0	0,00	89,15	-	-	0,00	0,00	-
36	7 568	7 570	3,62	104,0	0,00	88,58	-	-	0,00	0,00	-
37	7 686	7 688	3,44	104,0	0,00	88,72	-	-	0,00	0,00	-
38	7 295	7 297	4,07	104,0	0,00	88,26	-	-	0,00	0,00	-
4	8 441	8 442	5,67	106,9	0,00	89,53	-	-	0,00	0,00	-
5	8 873	8 874	5,09	106,9	0,00	89,96	-	-	0,00	0,00	-
6	9 691	9 692	4,08	106,9	0,00	90,73	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
7	10 157	10 158	3,54	106,9	0,00	91,14	-	-	0,00	0,00	-
8	11 856	11 857	1,78	106,9	0,00	92,48	-	-	0,00	0,00	-
9	11 516	11 517	2,11	106,9	0,00	92,23	-	-	0,00	0,00	-
Sum			35,95								

- Data undefined due to calculation with octave data

Noise sensitive area: L Gyvenamasis pastatas: Neturi adreso (12)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	848	858	33,24	106,9	0,00	69,67	-	-	0,00	0,00	-
10	12 864	12 865	0,86	106,9	0,00	93,19	-	-	0,00	0,00	-
11	11 570	11 572	1,10	107,0	0,00	92,27	-	-	0,00	0,00	-
12	12 107	12 108	0,60	107,0	0,00	92,66	-	-	0,00	0,00	-
13	9 373	9 375	3,43	107,0	0,00	90,44	-	-	0,00	0,00	-
14	8 821	8 822	4,11	107,0	0,00	89,91	-	-	0,00	0,00	-
15	9 039	9 041	3,83	107,0	0,00	90,12	-	-	0,00	0,00	-
16	4 995	4 998	10,72	107,0	0,00	84,98	-	-	0,00	0,00	-
17	5 525	5 528	9,50	107,0	0,00	85,85	-	-	0,00	0,00	-
18	5 657	5 660	9,22	107,0	0,00	86,06	-	-	0,00	0,00	-
19	8 477	8 479	4,55	107,0	0,00	89,57	-	-	0,00	0,00	-
2	1 053	1 061	30,84	106,9	0,00	71,52	-	-	0,00	0,00	-
20	7 836	7 838	3,03	104,0	0,00	88,88	-	-	0,00	0,00	-
21	7 728	7 729	3,19	104,0	0,00	88,76	-	-	0,00	0,00	-
22	8 000	8 001	2,79	104,0	0,00	89,06	-	-	0,00	0,00	-
23	9 248	9 250	1,12	104,0	0,00	90,32	-	-	0,00	0,00	-
24	3 899	3 903	12,60	106,0	0,00	82,83	-	-	0,00	0,00	-
25	4 256	4 259	11,40	106,0	0,00	83,59	-	-	0,00	0,00	-
26	4 183	4 187	11,64	106,0	0,00	83,44	-	-	0,00	0,00	-
27	3 707	3 711	13,29	106,0	0,00	82,39	-	-	0,00	0,00	-
28	3 405	3 410	14,45	106,0	0,00	81,65	-	-	0,00	0,00	-
29	3 263	3 268	15,04	106,0	0,00	81,29	-	-	0,00	0,00	-
3	8 354	8 355	5,79	106,9	0,00	89,44	-	-	0,00	0,00	-
30	5 066	5 069	8,49	104,0	0,00	85,10	-	-	0,00	0,00	-
31	5 548	5 550	7,39	104,0	0,00	85,89	-	-	0,00	0,00	-
32	7 023	7 025	4,53	104,0	0,00	87,93	-	-	0,00	0,00	-
33	6 665	6 667	5,17	104,0	0,00	87,48	-	-	0,00	0,00	-
34	7 677	7 678	3,45	104,0	0,00	88,71	-	-	0,00	0,00	-
35	8 092	8 093	2,82	104,0	0,00	89,16	-	-	0,00	0,00	-
36	7 585	7 586	3,60	104,0	0,00	88,60	-	-	0,00	0,00	-
37	7 705	7 706	3,41	104,0	0,00	88,74	-	-	0,00	0,00	-
38	7 317	7 319	4,03	104,0	0,00	88,29	-	-	0,00	0,00	-
4	8 464	8 465	5,64	106,9	0,00	89,55	-	-	0,00	0,00	-
5	8 899	8 900	5,06	106,9	0,00	89,99	-	-	0,00	0,00	-
6	9 716	9 717	4,05	106,9	0,00	90,75	-	-	0,00	0,00	-
7	10 183	10 184	3,52	106,9	0,00	91,16	-	-	0,00	0,00	-
8	11 877	11 878	1,76	106,9	0,00	92,49	-	-	0,00	0,00	-
9	11 543	11 544	2,09	106,9	0,00	92,25	-	-	0,00	0,00	-
Sum			35,50								

- Data undefined due to calculation with octave data

Noise sensitive area: M Sklypas/40 m saugotina aplinka: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (13)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 378	1 384	27,76	106,9	0,00	73,82	-	-	0,00	0,00	-
10	12 508	12 509	1,18	106,9	0,00	92,94	-	-	0,00	0,00	-
11	10 923	10 924	1,73	107,0	0,00	91,77	-	-	0,00	0,00	-
12	11 463	11 465	1,20	107,0	0,00	92,19	-	-	0,00	0,00	-
13	8 690	8 692	4,27	107,0	0,00	89,78	-	-	0,00	0,00	-
14	8 153	8 155	4,99	107,0	0,00	89,23	-	-	0,00	0,00	-
15	8 338	8 340	4,74	107,0	0,00	89,42	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
16	4 595	4 598	11,85	107,0	0,00	84,25	-	-	0,00	0,00	-
17	5 081	5 084	10,49	107,0	0,00	85,12	-	-	0,00	0,00	-
18	5 053	5 055	10,56	107,0	0,00	85,08	-	-	0,00	0,00	-
19	7 792	7 793	5,51	107,0	0,00	88,83	-	-	0,00	0,00	-
2	1 719	1 724	25,15	106,9	0,00	75,73	-	-	0,00	0,00	-
20	7 127	7 129	4,13	104,0	0,00	88,06	-	-	0,00	0,00	-
21	7 044	7 046	4,27	104,0	0,00	87,96	-	-	0,00	0,00	-
22	7 336	7 337	3,80	104,0	0,00	88,31	-	-	0,00	0,00	-
23	8 602	8 604	1,95	104,0	0,00	89,69	-	-	0,00	0,00	-
24	4 048	4 052	12,09	106,0	0,00	83,15	-	-	0,00	0,00	-
25	4 321	4 324	11,20	106,0	0,00	83,72	-	-	0,00	0,00	-
26	4 121	4 125	11,84	106,0	0,00	83,31	-	-	0,00	0,00	-
27	3 708	3 712	13,28	106,0	0,00	82,39	-	-	0,00	0,00	-
28	3 267	3 272	15,02	106,0	0,00	81,30	-	-	0,00	0,00	-
29	3 367	3 372	14,61	106,0	0,00	81,56	-	-	0,00	0,00	-
3	7 926	7 927	6,40	106,9	0,00	88,98	-	-	0,00	0,00	-
30	4 480	4 483	10,13	104,0	0,00	84,03	-	-	0,00	0,00	-
31	5 020	5 022	8,61	104,0	0,00	85,02	-	-	0,00	0,00	-
32	6 388	6 390	5,68	104,0	0,00	87,11	-	-	0,00	0,00	-
33	6 121	6 123	6,20	104,0	0,00	86,74	-	-	0,00	0,00	-
34	7 117	7 119	4,37	104,0	0,00	88,05	-	-	0,00	0,00	-
35	7 560	7 562	3,64	104,0	0,00	88,57	-	-	0,00	0,00	-
36	7 086	7 088	4,42	104,0	0,00	88,01	-	-	0,00	0,00	-
37	7 244	7 246	4,15	104,0	0,00	88,20	-	-	0,00	0,00	-
38	6 921	6 923	4,71	104,0	0,00	87,81	-	-	0,00	0,00	-
4	8 080	8 081	6,17	106,9	0,00	89,15	-	-	0,00	0,00	-
5	8 572	8 573	5,49	106,9	0,00	89,66	-	-	0,00	0,00	-
6	9 382	9 383	4,45	106,9	0,00	90,45	-	-	0,00	0,00	-
7	9 852	9 853	3,89	106,9	0,00	90,87	-	-	0,00	0,00	-
8	11 456	11 457	2,17	106,9	0,00	92,18	-	-	0,00	0,00	-
9	11 225	11 226	2,41	106,9	0,00	92,00	-	-	0,00	0,00	-
Sum			30,70								

- Data undefined due to calculation with octave data

Noise sensitive area: N Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (14)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 417	1 424	27,43	106,9	0,00	74,07	-	-	0,00	0,00	-
10	12 513	12 513	1,17	106,9	0,00	92,95	-	-	0,00	0,00	-
11	10 907	10 908	1,75	107,0	0,00	91,75	-	-	0,00	0,00	-
12	11 447	11 449	1,21	107,0	0,00	92,18	-	-	0,00	0,00	-
13	8 670	8 672	4,30	107,0	0,00	89,76	-	-	0,00	0,00	-
14	8 135	8 137	5,02	107,0	0,00	89,21	-	-	0,00	0,00	-
15	8 316	8 318	4,77	107,0	0,00	89,40	-	-	0,00	0,00	-
16	4 599	4 601	11,84	107,0	0,00	84,26	-	-	0,00	0,00	-
17	5 082	5 085	10,49	107,0	0,00	85,13	-	-	0,00	0,00	-
18	5 041	5 044	10,59	107,0	0,00	85,06	-	-	0,00	0,00	-
19	7 772	7 774	5,54	107,0	0,00	88,81	-	-	0,00	0,00	-
2	1 757	1 762	24,88	106,9	0,00	75,92	-	-	0,00	0,00	-
20	7 105	7 107	4,17	104,0	0,00	88,03	-	-	0,00	0,00	-
21	7 024	7 026	4,30	104,0	0,00	87,93	-	-	0,00	0,00	-
22	7 318	7 320	3,82	104,0	0,00	88,29	-	-	0,00	0,00	-
23	8 586	8 588	1,97	104,0	0,00	89,68	-	-	0,00	0,00	-
24	4 037	4 041	12,12	106,0	0,00	83,13	-	-	0,00	0,00	-
25	4 305	4 308	11,25	106,0	0,00	83,69	-	-	0,00	0,00	-
26	4 100	4 103	11,91	106,0	0,00	83,26	-	-	0,00	0,00	-
27	3 690	3 694	13,35	106,0	0,00	82,35	-	-	0,00	0,00	-
28	3 243	3 248	15,12	106,0	0,00	81,23	-	-	0,00	0,00	-
29	3 354	3 359	14,66	106,0	0,00	81,52	-	-	0,00	0,00	-
3	7 926	7 928	6,39	106,9	0,00	88,98	-	-	0,00	0,00	-
30	4 470	4 473	10,16	104,0	0,00	84,01	-	-	0,00	0,00	-
31	5 014	5 017	8,62	104,0	0,00	85,01	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
32	6 373	6 375	5,71	104,0	0,00	87,09	-	-	0,00	0,00	-
33	6 114	6 116	6,21	104,0	0,00	86,73	-	-	0,00	0,00	-
34	7 109	7 111	4,38	104,0	0,00	88,04	-	-	0,00	0,00	-
35	7 554	7 556	3,65	104,0	0,00	88,57	-	-	0,00	0,00	-
36	7 082	7 084	4,43	104,0	0,00	88,01	-	-	0,00	0,00	-
37	7 243	7 245	4,16	104,0	0,00	88,20	-	-	0,00	0,00	-
38	6 924	6 926	4,70	104,0	0,00	87,81	-	-	0,00	0,00	-
4	8 083	8 085	6,17	106,9	0,00	89,15	-	-	0,00	0,00	-
5	8 579	8 580	5,48	106,9	0,00	89,67	-	-	0,00	0,00	-
6	9 388	9 389	4,45	106,9	0,00	90,45	-	-	0,00	0,00	-
7	9 858	9 859	3,89	106,9	0,00	90,88	-	-	0,00	0,00	-
8	11 457	11 458	2,17	106,9	0,00	92,18	-	-	0,00	0,00	-
9	11 232	11 233	2,40	106,9	0,00	92,01	-	-	0,00	0,00	-
Sum			30,47								

- Data undefined due to calculation with octave data

Noise sensitive area: O Sklypas/40 m saugotina aplinka: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (15)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 413	1 419	27,47	106,9	0,00	74,04	-	-	0,00	0,00	-
10	12 368	12 369	1,30	106,9	0,00	92,85	-	-	0,00	0,00	-
11	10 780	10 782	1,88	107,0	0,00	91,65	-	-	0,00	0,00	-
12	11 320	11 322	1,34	107,0	0,00	92,08	-	-	0,00	0,00	-
13	8 552	8 553	4,45	107,0	0,00	89,64	-	-	0,00	0,00	-
14	8 012	8 014	5,19	107,0	0,00	89,08	-	-	0,00	0,00	-
15	8 203	8 205	4,92	107,0	0,00	89,28	-	-	0,00	0,00	-
16	4 454	4 457	12,27	107,0	0,00	83,98	-	-	0,00	0,00	-
17	4 938	4 940	10,87	107,0	0,00	84,88	-	-	0,00	0,00	-
18	4 907	4 910	10,96	107,0	0,00	84,82	-	-	0,00	0,00	-
19	7 653	7 655	5,71	107,0	0,00	88,68	-	-	0,00	0,00	-
2	1 779	1 784	24,73	106,9	0,00	76,03	-	-	0,00	0,00	-
20	6 994	6 996	4,35	104,0	0,00	87,90	-	-	0,00	0,00	-
21	6 905	6 907	4,50	104,0	0,00	87,79	-	-	0,00	0,00	-
22	7 195	7 196	4,02	104,0	0,00	88,14	-	-	0,00	0,00	-
23	8 460	8 461	2,14	104,0	0,00	89,55	-	-	0,00	0,00	-
24	4 179	4 183	11,65	106,0	0,00	83,43	-	-	0,00	0,00	-
25	4 443	4 446	10,82	106,0	0,00	83,96	-	-	0,00	0,00	-
26	4 229	4 233	11,49	106,0	0,00	83,53	-	-	0,00	0,00	-
27	3 825	3 829	12,86	106,0	0,00	82,66	-	-	0,00	0,00	-
28	3 368	3 372	14,61	106,0	0,00	81,56	-	-	0,00	0,00	-
29	3 496	3 500	14,09	106,0	0,00	81,88	-	-	0,00	0,00	-
3	7 782	7 783	6,61	106,9	0,00	88,82	-	-	0,00	0,00	-
30	4 333	4 336	10,58	104,0	0,00	83,74	-	-	0,00	0,00	-
31	4 873	4 876	9,00	104,0	0,00	84,76	-	-	0,00	0,00	-
32	6 244	6 246	5,96	104,0	0,00	86,91	-	-	0,00	0,00	-
33	5 974	5 976	6,49	104,0	0,00	86,53	-	-	0,00	0,00	-
34	6 971	6 973	4,62	104,0	0,00	87,87	-	-	0,00	0,00	-
35	7 414	7 415	3,87	104,0	0,00	88,40	-	-	0,00	0,00	-
36	6 939	6 941	4,68	104,0	0,00	87,83	-	-	0,00	0,00	-
37	7 099	7 101	4,40	104,0	0,00	88,03	-	-	0,00	0,00	-
38	6 779	6 781	4,96	104,0	0,00	87,63	-	-	0,00	0,00	-
4	7 939	7 940	6,38	106,9	0,00	89,00	-	-	0,00	0,00	-
5	8 435	8 436	5,68	106,9	0,00	89,52	-	-	0,00	0,00	-
6	9 244	9 245	4,62	106,9	0,00	90,32	-	-	0,00	0,00	-
7	9 714	9 715	4,06	106,9	0,00	90,75	-	-	0,00	0,00	-
8	11 313	11 313	2,32	106,9	0,00	92,07	-	-	0,00	0,00	-
9	11 088	11 089	2,55	106,9	0,00	91,90	-	-	0,00	0,00	-
Sum			30,42								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: P Gyvenamasis pastatas: Đviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (16)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 444	1 450	27,22	106,9	0,00	74,23	-	-	0,00	0,00	-
10	12 394	12 395	1,28	106,9	0,00	92,86	-	-	0,00	0,00	-
11	10 787	10 788	1,87	107,0	0,00	91,66	-	-	0,00	0,00	-
12	11 327	11 328	1,33	107,0	0,00	92,08	-	-	0,00	0,00	-
13	8 554	8 556	4,45	107,0	0,00	89,65	-	-	0,00	0,00	-
14	8 017	8 019	5,18	107,0	0,00	89,08	-	-	0,00	0,00	-
15	8 203	8 205	4,92	107,0	0,00	89,28	-	-	0,00	0,00	-
16	4 479	4 482	12,20	107,0	0,00	84,03	-	-	0,00	0,00	-
17	4 960	4 963	10,81	107,0	0,00	84,92	-	-	0,00	0,00	-
18	4 918	4 921	10,93	107,0	0,00	84,84	-	-	0,00	0,00	-
19	7 656	7 658	5,71	107,0	0,00	88,68	-	-	0,00	0,00	-
2	1 805	1 810	24,56	106,9	0,00	76,15	-	-	0,00	0,00	-
20	6 993	6 994	4,36	104,0	0,00	87,89	-	-	0,00	0,00	-
21	6 908	6 910	4,50	104,0	0,00	87,79	-	-	0,00	0,00	-
22	7 199	7 201	4,01	104,0	0,00	88,15	-	-	0,00	0,00	-
23	8 466	8 468	2,13	104,0	0,00	89,56	-	-	0,00	0,00	-
24	4 149	4 153	11,75	106,0	0,00	83,37	-	-	0,00	0,00	-
25	4 410	4 414	10,92	106,0	0,00	83,90	-	-	0,00	0,00	-
26	4 193	4 197	11,61	106,0	0,00	83,46	-	-	0,00	0,00	-
27	3 791	3 795	12,98	106,0	0,00	82,58	-	-	0,00	0,00	-
28	3 330	3 335	14,76	106,0	0,00	81,46	-	-	0,00	0,00	-
29	3 465	3 469	14,22	106,0	0,00	81,80	-	-	0,00	0,00	-
3	7 805	7 806	6,57	106,9	0,00	88,85	-	-	0,00	0,00	-
30	4 346	4 350	10,54	104,0	0,00	83,77	-	-	0,00	0,00	-
31	4 890	4 893	8,96	104,0	0,00	84,79	-	-	0,00	0,00	-
32	6 252	6 254	5,94	104,0	0,00	86,92	-	-	0,00	0,00	-
33	5 990	5 992	6,46	104,0	0,00	86,55	-	-	0,00	0,00	-
34	6 985	6 987	4,60	104,0	0,00	87,89	-	-	0,00	0,00	-
35	7 430	7 432	3,85	104,0	0,00	88,42	-	-	0,00	0,00	-
36	6 958	6 960	4,64	104,0	0,00	87,85	-	-	0,00	0,00	-
37	7 120	7 122	4,36	104,0	0,00	88,05	-	-	0,00	0,00	-
38	6 804	6 806	4,91	104,0	0,00	87,66	-	-	0,00	0,00	-
4	7 964	7 965	6,34	106,9	0,00	89,02	-	-	0,00	0,00	-
5	8 462	8 463	5,64	106,9	0,00	89,55	-	-	0,00	0,00	-
6	9 271	9 272	4,59	106,9	0,00	90,34	-	-	0,00	0,00	-
7	9 741	9 742	4,02	106,9	0,00	90,77	-	-	0,00	0,00	-
8	11 335	11 336	2,29	106,9	0,00	92,09	-	-	0,00	0,00	-
9	11 116	11 117	2,52	106,9	0,00	91,92	-	-	0,00	0,00	-
Sum			30,26								

- Data undefined due to calculation with octave data

Noise sensitive area: Q Sklypas/40 m saugotina aplinka: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (17)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 630	1 635	25,78	106,9	0,00	75,27	-	-	0,00	0,00	-
10	10 803	10 804	2,84	106,9	0,00	91,67	-	-	0,00	0,00	-
11	10 137	10 139	2,56	107,0	0,00	91,12	-	-	0,00	0,00	-
12	10 651	10 652	2,01	107,0	0,00	91,55	-	-	0,00	0,00	-
13	8 148	8 150	5,00	107,0	0,00	89,22	-	-	0,00	0,00	-
14	7 529	7 531	5,90	107,0	0,00	88,54	-	-	0,00	0,00	-
15	7 927	7 929	5,31	107,0	0,00	88,98	-	-	0,00	0,00	-
16	3 075	3 079	17,31	107,0	0,00	80,77	-	-	0,00	0,00	-
17	3 664	3 667	14,93	107,0	0,00	82,29	-	-	0,00	0,00	-
18	4 231	4 235	12,97	107,0	0,00	83,54	-	-	0,00	0,00	-
19	7 289	7 291	6,27	107,0	0,00	88,26	-	-	0,00	0,00	-
2	2 000	2 004	23,31	106,9	0,00	77,04	-	-	0,00	0,00	-
20	6 816	6 817	4,66	104,0	0,00	87,67	-	-	0,00	0,00	-
21	6 554	6 556	5,12	104,0	0,00	87,33	-	-	0,00	0,00	-
22	6 716	6 718	4,83	104,0	0,00	87,54	-	-	0,00	0,00	-
23	7 849	7 851	3,01	104,0	0,00	88,90	-	-	0,00	0,00	-
24	6 012	6 015	7,08	106,0	0,00	86,58	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
25	6 334	6 337	6,48	106,0	0,00	87,04	-	-	0,00	0,00	-
26	6 175	6 178	6,77	106,0	0,00	86,82	-	-	0,00	0,00	-
27	5 745	5 748	7,61	106,0	0,00	86,19	-	-	0,00	0,00	-
28	5 328	5 331	8,48	106,0	0,00	85,54	-	-	0,00	0,00	-
29	5 356	5 359	8,42	106,0	0,00	85,58	-	-	0,00	0,00	-
3	6 405	6 406	8,87	106,9	0,00	87,13	-	-	0,00	0,00	-
30	3 618	3 621	12,98	104,0	0,00	82,18	-	-	0,00	0,00	-
31	3 884	3 887	12,04	104,0	0,00	82,79	-	-	0,00	0,00	-
32	5 648	5 650	7,18	104,0	0,00	86,04	-	-	0,00	0,00	-
33	4 994	4 996	8,68	104,0	0,00	84,97	-	-	0,00	0,00	-
34	6 017	6 019	6,41	104,0	0,00	86,59	-	-	0,00	0,00	-
35	6 348	6 350	5,76	104,0	0,00	87,06	-	-	0,00	0,00	-
36	5 777	5 779	6,90	104,0	0,00	86,24	-	-	0,00	0,00	-
37	5 818	5 820	6,82	104,0	0,00	86,30	-	-	0,00	0,00	-
38	5 333	5 335	7,87	104,0	0,00	85,54	-	-	0,00	0,00	-
4	6 452	6 454	8,79	106,9	0,00	87,20	-	-	0,00	0,00	-
5	6 826	6 828	8,13	106,9	0,00	87,69	-	-	0,00	0,00	-
6	7 646	7 647	6,81	106,9	0,00	88,67	-	-	0,00	0,00	-
7	8 109	8 110	6,13	106,9	0,00	89,18	-	-	0,00	0,00	-
8	9 891	9 892	3,85	106,9	0,00	90,91	-	-	0,00	0,00	-
9	9 455	9 455	4,36	106,9	0,00	90,51	-	-	0,00	0,00	-
Sum			29,40								

- Data undefined due to calculation with octave data

Noise sensitive area: R Gyvenamasis pastatas: Barsukinės k. 2, Þeimiø sen., Jonavos r. sav. (18)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 667	1 672	25,51	106,9	0,00	75,47	-	-	0,00	0,00	-
10	10 767	10 768	2,88	106,9	0,00	91,64	-	-	0,00	0,00	-
11	10 098	10 100	2,60	107,0	0,00	91,09	-	-	0,00	0,00	-
12	10 612	10 613	2,05	107,0	0,00	91,52	-	-	0,00	0,00	-
13	8 110	8 112	5,05	107,0	0,00	89,18	-	-	0,00	0,00	-
14	7 491	7 493	5,96	107,0	0,00	88,49	-	-	0,00	0,00	-
15	7 890	7 892	5,36	107,0	0,00	88,94	-	-	0,00	0,00	-
16	3 036	3 040	17,48	107,0	0,00	80,66	-	-	0,00	0,00	-
17	3 624	3 628	15,08	107,0	0,00	82,19	-	-	0,00	0,00	-
18	4 193	4 197	13,09	107,0	0,00	83,46	-	-	0,00	0,00	-
19	7 252	7 254	6,33	107,0	0,00	88,21	-	-	0,00	0,00	-
2	2 039	2 043	23,07	106,9	0,00	77,21	-	-	0,00	0,00	-
20	6 781	6 782	4,72	104,0	0,00	87,63	-	-	0,00	0,00	-
21	6 517	6 519	5,18	104,0	0,00	87,28	-	-	0,00	0,00	-
22	6 678	6 680	4,89	104,0	0,00	87,50	-	-	0,00	0,00	-
23	7 810	7 812	3,07	104,0	0,00	88,86	-	-	0,00	0,00	-
24	6 039	6 041	7,03	106,0	0,00	86,62	-	-	0,00	0,00	-
25	6 358	6 361	6,44	106,0	0,00	87,07	-	-	0,00	0,00	-
26	6 196	6 198	6,73	106,0	0,00	86,85	-	-	0,00	0,00	-
27	5 767	5 770	7,56	106,0	0,00	86,22	-	-	0,00	0,00	-
28	5 347	5 349	8,44	106,0	0,00	85,57	-	-	0,00	0,00	-
29	5 381	5 384	8,37	106,0	0,00	85,62	-	-	0,00	0,00	-
3	6 366	6 368	8,94	106,9	0,00	87,08	-	-	0,00	0,00	-
30	3 580	3 584	13,12	104,0	0,00	82,09	-	-	0,00	0,00	-
31	3 844	3 848	12,18	104,0	0,00	82,70	-	-	0,00	0,00	-
32	5 610	5 612	7,26	104,0	0,00	85,98	-	-	0,00	0,00	-
33	4 954	4 957	8,78	104,0	0,00	84,90	-	-	0,00	0,00	-
34	5 978	5 980	6,49	104,0	0,00	86,53	-	-	0,00	0,00	-
35	6 309	6 311	5,83	104,0	0,00	87,00	-	-	0,00	0,00	-
36	5 737	5 740	6,98	104,0	0,00	86,18	-	-	0,00	0,00	-
37	5 779	5 781	6,90	104,0	0,00	86,24	-	-	0,00	0,00	-
38	5 295	5 297	7,96	104,0	0,00	85,48	-	-	0,00	0,00	-
4	6 415	6 416	8,86	106,9	0,00	87,15	-	-	0,00	0,00	-
5	6 791	6 792	8,19	106,9	0,00	87,64	-	-	0,00	0,00	-
6	7 610	7 612	6,86	106,9	0,00	88,63	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
7	8 073	8 075	6,18	106,9	0,00	89,14	-	-	0,00	0,00	-
8	9 853	9 854	3,89	106,9	0,00	90,87	-	-	0,00	0,00	-
9	9 420	9 421	4,41	106,9	0,00	90,48	-	-	0,00	0,00	-
Sum			29,26								

- Data undefined due to calculation with octave data

Noise sensitive area: S Sklypas/40 m saugotina aplinka: Barsukinės k. 1, Þeimiø sen., Jonavos r. sav. (19)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 939	1 943	23,69	106,9	0,00	76,77	-	-	0,00	0,00	-
10	10 514	10 515	3,15	106,9	0,00	91,44	-	-	0,00	0,00	-
11	9 802	9 804	2,93	107,0	0,00	90,83	-	-	0,00	0,00	-
12	10 315	10 317	2,36	107,0	0,00	91,27	-	-	0,00	0,00	-
13	7 822	7 824	5,46	107,0	0,00	88,87	-	-	0,00	0,00	-
14	7 200	7 202	6,41	107,0	0,00	88,15	-	-	0,00	0,00	-
15	7 608	7 610	5,78	107,0	0,00	88,63	-	-	0,00	0,00	-
16	2 748	2 753	18,81	107,0	0,00	79,80	-	-	0,00	0,00	-
17	3 333	3 337	16,22	107,0	0,00	81,47	-	-	0,00	0,00	-
18	3 902	3 906	14,07	107,0	0,00	82,83	-	-	0,00	0,00	-
19	6 966	6 968	6,79	107,0	0,00	87,86	-	-	0,00	0,00	-
2	2 323	2 327	21,45	106,9	0,00	78,34	-	-	0,00	0,00	-
20	6 505	6 507	5,20	104,0	0,00	87,27	-	-	0,00	0,00	-
21	6 233	6 235	5,71	104,0	0,00	86,90	-	-	0,00	0,00	-
22	6 389	6 390	5,42	104,0	0,00	87,11	-	-	0,00	0,00	-
23	7 516	7 517	3,51	104,0	0,00	88,52	-	-	0,00	0,00	-
24	6 219	6 222	6,69	106,0	0,00	86,88	-	-	0,00	0,00	-
25	6 521	6 524	6,15	106,0	0,00	87,29	-	-	0,00	0,00	-
26	6 331	6 333	6,49	106,0	0,00	87,03	-	-	0,00	0,00	-
27	5 918	5 920	7,26	106,0	0,00	86,45	-	-	0,00	0,00	-
28	5 468	5 471	8,18	106,0	0,00	85,76	-	-	0,00	0,00	-
29	5 553	5 556	8,00	106,0	0,00	85,89	-	-	0,00	0,00	-
3	6 088	6 089	9,47	106,9	0,00	86,69	-	-	0,00	0,00	-
30	3 289	3 293	14,23	104,0	0,00	81,35	-	-	0,00	0,00	-
31	3 547	3 551	13,24	104,0	0,00	82,01	-	-	0,00	0,00	-
32	5 318	5 320	7,91	104,0	0,00	85,52	-	-	0,00	0,00	-
33	4 657	4 660	9,61	104,0	0,00	84,37	-	-	0,00	0,00	-
34	5 681	5 683	7,10	104,0	0,00	86,09	-	-	0,00	0,00	-
35	6 014	6 016	6,41	104,0	0,00	86,59	-	-	0,00	0,00	-
36	5 445	5 448	7,62	104,0	0,00	85,72	-	-	0,00	0,00	-
37	5 492	5 495	7,51	104,0	0,00	85,80	-	-	0,00	0,00	-
38	5 021	5 023	8,60	104,0	0,00	85,02	-	-	0,00	0,00	-
4	6 147	6 149	9,35	106,9	0,00	86,78	-	-	0,00	0,00	-
5	6 540	6 542	8,63	106,9	0,00	87,31	-	-	0,00	0,00	-
6	7 360	7 361	7,25	106,9	0,00	88,34	-	-	0,00	0,00	-
7	7 824	7 825	6,54	106,9	0,00	88,87	-	-	0,00	0,00	-
8	9 583	9 584	4,21	106,9	0,00	90,63	-	-	0,00	0,00	-
9	9 177	9 178	4,71	106,9	0,00	90,25	-	-	0,00	0,00	-
Sum			28,54								

- Data undefined due to calculation with octave data

Noise sensitive area: T Gyvenamasis pastatas: Barsukinės k. 1, Þeimiø sen., Jonavos r. sav. (20)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1 981	1 985	23,42	106,9	0,00	76,96	-	-	0,00	0,00	-
10	10 469	10 470	3,20	106,9	0,00	91,40	-	-	0,00	0,00	-
11	9 775	9 777	2,96	107,0	0,00	90,80	-	-	0,00	0,00	-
12	10 287	10 289	2,39	107,0	0,00	91,25	-	-	0,00	0,00	-
13	7 801	7 803	5,49	107,0	0,00	88,85	-	-	0,00	0,00	-
14	7 178	7 180	6,44	107,0	0,00	88,12	-	-	0,00	0,00	-
15	7 590	7 592	5,81	107,0	0,00	88,61	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninës VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
16	2 709	2 715	19,00	107,0	0,00	79,67	-	-	0,00	0,00	-
17	3 296	3 300	16,37	107,0	0,00	81,37	-	-	0,00	0,00	-
18	3 879	3 883	14,15	107,0	0,00	82,78	-	-	0,00	0,00	-
19	6 947	6 949	6,82	107,0	0,00	87,84	-	-	0,00	0,00	-
2	2 362	2 366	21,24	106,9	0,00	78,48	-	-	0,00	0,00	-
20	6 491	6 493	5,23	104,0	0,00	87,25	-	-	0,00	0,00	-
21	6 215	6 217	5,74	104,0	0,00	86,87	-	-	0,00	0,00	-
22	6 367	6 369	5,46	104,0	0,00	87,08	-	-	0,00	0,00	-
23	7 490	7 492	3,55	104,0	0,00	88,49	-	-	0,00	0,00	-
24	6 267	6 269	6,60	106,0	0,00	86,94	-	-	0,00	0,00	-
25	6 569	6 571	6,07	106,0	0,00	87,35	-	-	0,00	0,00	-
26	6 377	6 379	6,40	106,0	0,00	87,10	-	-	0,00	0,00	-
27	5 965	5 967	7,17	106,0	0,00	86,52	-	-	0,00	0,00	-
28	5 514	5 517	8,08	106,0	0,00	85,83	-	-	0,00	0,00	-
29	5 600	5 603	7,90	106,0	0,00	85,97	-	-	0,00	0,00	-
3	6 047	6 048	9,55	106,9	0,00	86,63	-	-	0,00	0,00	-
30	3 267	3 272	14,32	104,0	0,00	81,29	-	-	0,00	0,00	-
31	3 517	3 521	13,35	104,0	0,00	81,93	-	-	0,00	0,00	-
32	5 295	5 298	7,96	104,0	0,00	85,48	-	-	0,00	0,00	-
33	4 625	4 628	9,71	104,0	0,00	84,31	-	-	0,00	0,00	-
34	5 649	5 651	7,17	104,0	0,00	86,04	-	-	0,00	0,00	-
35	5 979	5 981	6,48	104,0	0,00	86,54	-	-	0,00	0,00	-
36	5 408	5 411	7,70	104,0	0,00	85,67	-	-	0,00	0,00	-
37	5 453	5 456	7,60	104,0	0,00	85,74	-	-	0,00	0,00	-
38	4 978	4 981	8,72	104,0	0,00	84,95	-	-	0,00	0,00	-
4	6 104	6 106	9,44	106,9	0,00	86,71	-	-	0,00	0,00	-
5	6 495	6 496	8,71	106,9	0,00	87,25	-	-	0,00	0,00	-
6	7 314	7 315	7,33	106,9	0,00	88,28	-	-	0,00	0,00	-
7	7 779	7 780	6,61	106,9	0,00	88,82	-	-	0,00	0,00	-
8	9 540	9 541	4,26	106,9	0,00	90,59	-	-	0,00	0,00	-
9	9 131	9 132	4,76	106,9	0,00	90,21	-	-	0,00	0,00	-
Sum			28,46								

- Data undefined due to calculation with octave data

Noise sensitive area: U Sklypas/40 m saugotina aplinka: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (21)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	4 170	4 173	13,93	106,9	0,00	83,41	-	-	0,00	0,00	-
10	8 545	8 546	5,53	106,9	0,00	89,64	-	-	0,00	0,00	-
11	9 340	9 342	3,47	107,0	0,00	90,41	-	-	0,00	0,00	-
12	9 785	9 786	2,95	107,0	0,00	90,81	-	-	0,00	0,00	-
13	7 856	7 858	5,41	107,0	0,00	88,91	-	-	0,00	0,00	-
14	7 184	7 186	6,43	107,0	0,00	88,13	-	-	0,00	0,00	-
15	7 841	7 843	5,44	107,0	0,00	88,89	-	-	0,00	0,00	-
16	2 324	2 330	21,03	107,0	0,00	78,35	-	-	0,00	0,00	-
17	2 825	2 830	18,45	107,0	0,00	80,03	-	-	0,00	0,00	-
18	4 239	4 242	12,94	107,0	0,00	83,55	-	-	0,00	0,00	-
19	7 145	7 147	6,50	107,0	0,00	88,08	-	-	0,00	0,00	-
2	4 408	4 410	13,27	106,9	0,00	83,89	-	-	0,00	0,00	-
20	6 995	6 997	4,35	104,0	0,00	87,90	-	-	0,00	0,00	-
21	6 527	6 528	5,17	104,0	0,00	87,30	-	-	0,00	0,00	-
22	6 480	6 482	5,25	104,0	0,00	87,23	-	-	0,00	0,00	-
23	7 279	7 281	3,89	104,0	0,00	88,24	-	-	0,00	0,00	-
24	8 721	8 723	2,89	106,0	0,00	89,81	-	-	0,00	0,00	-
25	9 055	9 056	2,48	106,0	0,00	90,14	-	-	0,00	0,00	-
26	8 894	8 896	2,68	106,0	0,00	89,98	-	-	0,00	0,00	-
27	8 467	8 469	3,22	106,0	0,00	89,56	-	-	0,00	0,00	-
28	8 038	8 039	3,80	106,0	0,00	89,10	-	-	0,00	0,00	-
29	8 073	8 074	3,75	106,0	0,00	89,14	-	-	0,00	0,00	-
3	4 698	4 700	12,52	106,9	0,00	84,44	-	-	0,00	0,00	-
30	3 796	3 800	12,34	104,0	0,00	82,60	-	-	0,00	0,00	-
31	3 502	3 506	13,41	104,0	0,00	81,90	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
32	5 414	5 416	7,69	104,0	0,00	85,67	-	-	0,00	0,00	-
33	4 275	4 278	10,76	104,0	0,00	83,63	-	-	0,00	0,00	-
34	5 137	5 139	8,32	104,0	0,00	85,22	-	-	0,00	0,00	-
35	5 222	5 225	8,13	104,0	0,00	85,36	-	-	0,00	0,00	-
36	4 565	4 567	9,88	104,0	0,00	84,19	-	-	0,00	0,00	-
37	4 374	4 377	10,46	104,0	0,00	83,82	-	-	0,00	0,00	-
38	3 633	3 637	12,92	104,0	0,00	82,22	-	-	0,00	0,00	-
4	4 530	4 532	12,95	106,9	0,00	84,12	-	-	0,00	0,00	-
5	4 637	4 639	12,68	106,9	0,00	84,33	-	-	0,00	0,00	-
6	5 431	5 433	10,81	106,9	0,00	85,70	-	-	0,00	0,00	-
7	5 862	5 864	9,91	106,9	0,00	86,36	-	-	0,00	0,00	-
8	7 884	7 886	6,46	106,9	0,00	88,94	-	-	0,00	0,00	-
9	7 119	7 120	7,64	106,9	0,00	88,05	-	-	0,00	0,00	-
Sum			27,07								

- Data undefined due to calculation with octave data

Noise sensitive area: V Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (22)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	4 206	4 208	13,83	106,9	0,00	83,48	-	-	0,00	0,00	-
10	8 506	8 507	5,58	106,9	0,00	89,60	-	-	0,00	0,00	-
11	9 312	9 313	3,50	107,0	0,00	90,38	-	-	0,00	0,00	-
12	9 755	9 757	2,98	107,0	0,00	90,79	-	-	0,00	0,00	-
13	7 834	7 836	5,45	107,0	0,00	88,88	-	-	0,00	0,00	-
14	7 162	7 164	6,47	107,0	0,00	88,10	-	-	0,00	0,00	-
15	7 821	7 823	5,46	107,0	0,00	88,87	-	-	0,00	0,00	-
16	2 309	2 315	21,11	107,0	0,00	78,29	-	-	0,00	0,00	-
17	2 805	2 810	18,54	107,0	0,00	79,97	-	-	0,00	0,00	-
18	4 226	4 230	12,99	107,0	0,00	83,53	-	-	0,00	0,00	-
19	7 126	7 128	6,53	107,0	0,00	88,06	-	-	0,00	0,00	-
2	4 444	4 446	13,18	106,9	0,00	83,96	-	-	0,00	0,00	-
20	6 980	6 981	4,38	104,0	0,00	87,88	-	-	0,00	0,00	-
21	6 509	6 511	5,20	104,0	0,00	87,27	-	-	0,00	0,00	-
22	6 460	6 462	5,29	104,0	0,00	87,21	-	-	0,00	0,00	-
23	7 254	7 256	3,93	104,0	0,00	88,21	-	-	0,00	0,00	-
24	8 754	8 756	2,85	106,0	0,00	89,85	-	-	0,00	0,00	-
25	9 086	9 088	2,44	106,0	0,00	90,17	-	-	0,00	0,00	-
26	8 924	8 925	2,64	106,0	0,00	90,01	-	-	0,00	0,00	-
27	8 498	8 500	3,18	106,0	0,00	89,59	-	-	0,00	0,00	-
28	8 066	8 068	3,76	106,0	0,00	89,14	-	-	0,00	0,00	-
29	8 105	8 107	3,71	106,0	0,00	89,18	-	-	0,00	0,00	-
3	4 663	4 665	12,61	106,9	0,00	84,38	-	-	0,00	0,00	-
30	3 788	3 791	12,37	104,0	0,00	82,58	-	-	0,00	0,00	-
31	3 486	3 490	13,47	104,0	0,00	81,86	-	-	0,00	0,00	-
32	5 395	5 398	7,73	104,0	0,00	85,64	-	-	0,00	0,00	-
33	4 252	4 255	10,83	104,0	0,00	83,58	-	-	0,00	0,00	-
34	5 110	5 113	8,39	104,0	0,00	85,17	-	-	0,00	0,00	-
35	5 192	5 195	8,19	104,0	0,00	85,31	-	-	0,00	0,00	-
36	4 535	4 538	9,97	104,0	0,00	84,14	-	-	0,00	0,00	-
37	4 341	4 344	10,55	104,0	0,00	83,76	-	-	0,00	0,00	-
38	3 599	3 603	13,05	104,0	0,00	82,13	-	-	0,00	0,00	-
4	4 492	4 494	13,05	106,9	0,00	84,05	-	-	0,00	0,00	-
5	4 598	4 600	12,78	106,9	0,00	84,26	-	-	0,00	0,00	-
6	5 392	5 394	10,90	106,9	0,00	85,64	-	-	0,00	0,00	-
7	5 823	5 825	9,99	106,9	0,00	86,31	-	-	0,00	0,00	-
8	7 846	7 847	6,51	106,9	0,00	88,89	-	-	0,00	0,00	-
9	7 080	7 081	7,70	106,9	0,00	88,00	-	-	0,00	0,00	-
Sum			27,13								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: W Sklypas/40 m saugotina aplinka: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (23)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	3 878	3 880	14,85	106,9	0,00	82,78	-	-	0,00	0,00	-
10	8 575	8 576	5,49	106,9	0,00	89,67	-	-	0,00	0,00	-
11	8 749	8 751	4,20	107,0	0,00	89,84	-	-	0,00	0,00	-
12	9 217	9 218	3,62	107,0	0,00	90,29	-	-	0,00	0,00	-
13	7 127	7 129	6,53	107,0	0,00	88,06	-	-	0,00	0,00	-
14	6 460	6 462	7,66	107,0	0,00	87,21	-	-	0,00	0,00	-
15	7 071	7 073	6,62	107,0	0,00	87,99	-	-	0,00	0,00	-
16	1 530	1 539	26,34	107,0	0,00	74,74	-	-	0,00	0,00	-
17	2 097	2 104	22,37	107,0	0,00	77,46	-	-	0,00	0,00	-
18	3 399	3 403	15,95	107,0	0,00	81,64	-	-	0,00	0,00	-
19	6 379	6 382	7,81	107,0	0,00	87,10	-	-	0,00	0,00	-
2	4 189	4 192	13,87	106,9	0,00	83,45	-	-	0,00	0,00	-
20	6 173	6 175	5,82	104,0	0,00	86,81	-	-	0,00	0,00	-
21	5 733	5 735	6,70	104,0	0,00	86,17	-	-	0,00	0,00	-
22	5 724	5 726	6,72	104,0	0,00	86,16	-	-	0,00	0,00	-
23	6 608	6 610	5,02	104,0	0,00	87,40	-	-	0,00	0,00	-
24	8 266	8 268	3,49	106,0	0,00	89,35	-	-	0,00	0,00	-
25	8 559	8 561	3,10	106,0	0,00	89,65	-	-	0,00	0,00	-
26	8 340	8 342	3,39	106,0	0,00	89,43	-	-	0,00	0,00	-
27	7 945	7 947	3,93	106,0	0,00	89,00	-	-	0,00	0,00	-
28	7 462	7 464	4,63	106,0	0,00	88,46	-	-	0,00	0,00	-
29	7 597	7 599	4,43	106,0	0,00	88,61	-	-	0,00	0,00	-
3	4 386	4 388	13,33	106,9	0,00	83,85	-	-	0,00	0,00	-
30	2 924	2 929	15,76	104,0	0,00	80,33	-	-	0,00	0,00	-
31	2 702	2 707	16,77	104,0	0,00	79,65	-	-	0,00	0,00	-
32	4 640	4 643	9,66	104,0	0,00	84,34	-	-	0,00	0,00	-
33	3 584	3 588	13,10	104,0	0,00	82,10	-	-	0,00	0,00	-
34	4 515	4 518	10,03	104,0	0,00	84,10	-	-	0,00	0,00	-
35	4 682	4 685	9,54	104,0	0,00	84,41	-	-	0,00	0,00	-
36	4 039	4 043	11,52	104,0	0,00	83,13	-	-	0,00	0,00	-
37	3 935	3 938	11,87	104,0	0,00	82,91	-	-	0,00	0,00	-
38	3 292	3 296	14,22	104,0	0,00	81,36	-	-	0,00	0,00	-
4	4 328	4 330	13,49	106,9	0,00	83,73	-	-	0,00	0,00	-
5	4 601	4 603	12,77	106,9	0,00	84,26	-	-	0,00	0,00	-
6	5 419	5 420	10,84	106,9	0,00	85,68	-	-	0,00	0,00	-
7	5 874	5 876	9,89	106,9	0,00	86,38	-	-	0,00	0,00	-
8	7 760	7 762	6,64	106,9	0,00	88,80	-	-	0,00	0,00	-
9	7 199	7 200	7,51	106,9	0,00	88,15	-	-	0,00	0,00	-
Sum			30,18								

- Data undefined due to calculation with octave data

Noise sensitive area: X Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (24)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	3 927	3 929	14,69	106,9	0,00	82,89	-	-	0,00	0,00	-
10	8 525	8 526	5,55	106,9	0,00	89,61	-	-	0,00	0,00	-
11	8 706	8 707	4,25	107,0	0,00	89,80	-	-	0,00	0,00	-
12	9 172	9 174	3,67	107,0	0,00	90,25	-	-	0,00	0,00	-
13	7 091	7 093	6,58	107,0	0,00	88,02	-	-	0,00	0,00	-
14	6 423	6 426	7,73	107,0	0,00	87,16	-	-	0,00	0,00	-
15	7 038	7 040	6,67	107,0	0,00	87,95	-	-	0,00	0,00	-
16	1 496	1 505	26,62	107,0	0,00	74,55	-	-	0,00	0,00	-
17	2 058	2 065	22,61	107,0	0,00	77,30	-	-	0,00	0,00	-
18	3 373	3 377	16,05	107,0	0,00	81,57	-	-	0,00	0,00	-
19	6 346	6 348	7,87	107,0	0,00	87,05	-	-	0,00	0,00	-
2	4 239	4 242	13,73	106,9	0,00	83,55	-	-	0,00	0,00	-
20	6 146	6 148	5,87	104,0	0,00	86,77	-	-	0,00	0,00	-
21	5 702	5 704	6,76	104,0	0,00	86,12	-	-	0,00	0,00	-
22	5 690	5 692	6,79	104,0	0,00	86,11	-	-	0,00	0,00	-
23	6 568	6 570	5,09	104,0	0,00	87,35	-	-	0,00	0,00	-
24	8 309	8 311	3,43	106,0	0,00	89,39	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
25	8 600	8 602	3,05	106,0	0,00	89,69	-	-	0,00	0,00	-
26	8 378	8 380	3,34	106,0	0,00	89,46	-	-	0,00	0,00	-
27	7 985	7 987	3,87	106,0	0,00	89,05	-	-	0,00	0,00	-
28	7 500	7 502	4,57	106,0	0,00	88,50	-	-	0,00	0,00	-
29	7 639	7 641	4,37	106,0	0,00	88,66	-	-	0,00	0,00	-
3	4 335	4 337	13,47	106,9	0,00	83,74	-	-	0,00	0,00	-
30	2 905	2 909	15,85	104,0	0,00	80,28	-	-	0,00	0,00	-
31	2 671	2 676	16,92	104,0	0,00	79,55	-	-	0,00	0,00	-
32	4 607	4 610	9,76	104,0	0,00	84,27	-	-	0,00	0,00	-
33	3 544	3 548	13,25	104,0	0,00	82,00	-	-	0,00	0,00	-
34	4 472	4 475	10,16	104,0	0,00	84,02	-	-	0,00	0,00	-
35	4 636	4 638	9,68	104,0	0,00	84,33	-	-	0,00	0,00	-
36	3 992	3 995	11,67	104,0	0,00	83,03	-	-	0,00	0,00	-
37	3 885	3 889	12,03	104,0	0,00	82,80	-	-	0,00	0,00	-
38	3 241	3 245	14,42	104,0	0,00	81,22	-	-	0,00	0,00	-
4	4 276	4 278	13,63	106,9	0,00	83,63	-	-	0,00	0,00	-
5	4 550	4 552	12,90	106,9	0,00	84,16	-	-	0,00	0,00	-
6	5 368	5 370	10,95	106,9	0,00	85,60	-	-	0,00	0,00	-
7	5 824	5 825	9,99	106,9	0,00	86,31	-	-	0,00	0,00	-
8	7 709	7 710	6,72	106,9	0,00	88,74	-	-	0,00	0,00	-
9	7 149	7 151	7,59	106,9	0,00	88,09	-	-	0,00	0,00	-
Sum			30,37								

- Data undefined due to calculation with octave data

Noise sensitive area: Y Sklypas/40 m saugotina aplinka: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (25)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	8 854	8 855	5,12	106,9	0,00	89,94	-	-	0,00	0,00	-
10	4 840	4 842	12,17	106,9	0,00	84,70	-	-	0,00	0,00	-
11	3 557	3 561	15,33	107,0	0,00	82,03	-	-	0,00	0,00	-
12	3 921	3 925	14,01	107,0	0,00	82,88	-	-	0,00	0,00	-
13	3 182	3 186	16,84	107,0	0,00	81,07	-	-	0,00	0,00	-
14	2 710	2 716	19,00	107,0	0,00	79,68	-	-	0,00	0,00	-
15	3 606	3 610	15,15	107,0	0,00	82,15	-	-	0,00	0,00	-
16	4 223	4 226	13,00	107,0	0,00	83,52	-	-	0,00	0,00	-
17	3 620	3 623	15,10	107,0	0,00	82,18	-	-	0,00	0,00	-
18	3 614	3 618	15,11	107,0	0,00	82,17	-	-	0,00	0,00	-
19	3 142	3 146	17,02	107,0	0,00	80,96	-	-	0,00	0,00	-
2	9 263	9 264	4,60	106,9	0,00	90,34	-	-	0,00	0,00	-
20	3 804	3 807	11,87	104,0	0,00	82,61	-	-	0,00	0,00	-
21	3 209	3 213	14,14	104,0	0,00	81,14	-	-	0,00	0,00	-
22	2 729	2 733	16,27	104,0	0,00	79,73	-	-	0,00	0,00	-
23	2 268	2 273	18,66	104,0	0,00	78,13	-	-	0,00	0,00	-
24	12 319	12 320	-0,91	106,0	0,00	92,81	-	-	0,00	0,00	-
25	12 415	12 416	-0,99	106,0	0,00	92,88	-	-	0,00	0,00	-
26	11 945	11 946	-0,57	106,0	0,00	92,54	-	-	0,00	0,00	-
27	11 741	11 743	-0,38	106,0	0,00	92,40	-	-	0,00	0,00	-
28	11 062	11 064	0,28	106,0	0,00	91,88	-	-	0,00	0,00	-
29	11 626	11 627	-0,27	106,0	0,00	92,31	-	-	0,00	0,00	-
3	1 514	1 519	26,66	106,9	0,00	74,63	-	-	0,00	0,00	-
30	4 102	4 106	11,31	104,0	0,00	83,27	-	-	0,00	0,00	-
31	3 517	3 520	13,35	104,0	0,00	81,93	-	-	0,00	0,00	-
32	2 740	2 745	16,60	104,0	0,00	79,77	-	-	0,00	0,00	-
33	2 422	2 427	18,16	104,0	0,00	78,70	-	-	0,00	0,00	-
34	1 500	1 509	23,96	104,0	0,00	74,57	-	-	0,00	0,00	-
35	978	991	28,79	104,0	0,00	70,92	-	-	0,00	0,00	-
36	1 506	1 515	23,92	104,0	0,00	74,61	-	-	0,00	0,00	-
37	1 595	1 603	23,25	104,0	0,00	75,10	-	-	0,00	0,00	-
38	2 376	2 382	18,40	104,0	0,00	78,54	-	-	0,00	0,00	-
4	2 033	2 037	23,11	106,9	0,00	77,18	-	-	0,00	0,00	-
5	2 760	2 763	19,26	106,9	0,00	79,83	-	-	0,00	0,00	-
6	2 891	2 894	18,67	106,9	0,00	80,23	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
7	3 144	3 147	17,59	106,9	0,00	80,96	-	-	0,00	0,00	-
8	3 366	3 369	16,70	106,9	0,00	81,55	-	-	0,00	0,00	-
9	4 185	4 187	13,88	106,9	0,00	83,44	-	-	0,00	0,00	-
Sum			35,01								

- Data undefined due to calculation with octave data

Noise sensitive area: Z Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (26)

Wind speed: 10,0 m/s

WTG No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	8 880	8 881	5,08	106,9	0,00	89,97	-	-	0,00	0,00	-
10	4 843	4 844	12,16	106,9	0,00	84,70	-	-	0,00	0,00	-
11	3 522	3 526	15,47	107,0	0,00	81,95	-	-	0,00	0,00	-
12	3 886	3 889	14,13	107,0	0,00	82,80	-	-	0,00	0,00	-
13	3 158	3 162	16,95	107,0	0,00	81,00	-	-	0,00	0,00	-
14	2 691	2 696	19,10	107,0	0,00	79,61	-	-	0,00	0,00	-
15	3 585	3 589	15,23	107,0	0,00	82,10	-	-	0,00	0,00	-
16	4 251	4 254	12,91	107,0	0,00	83,58	-	-	0,00	0,00	-
17	3 648	3 651	14,99	107,0	0,00	82,25	-	-	0,00	0,00	-
18	3 630	3 634	15,05	107,0	0,00	82,21	-	-	0,00	0,00	-
19	3 126	3 130	17,08	107,0	0,00	80,91	-	-	0,00	0,00	-
2	9 290	9 291	4,57	106,9	0,00	90,36	-	-	0,00	0,00	-
20	3 793	3 796	11,91	104,0	0,00	82,59	-	-	0,00	0,00	-
21	3 201	3 205	14,17	104,0	0,00	81,12	-	-	0,00	0,00	-
22	2 719	2 723	16,32	104,0	0,00	79,70	-	-	0,00	0,00	-
23	2 243	2 248	18,80	104,0	0,00	78,04	-	-	0,00	0,00	-
24	12 337	12 338	-0,92	106,0	0,00	92,82	-	-	0,00	0,00	-
25	12 431	12 432	-1,01	106,0	0,00	92,89	-	-	0,00	0,00	-
26	11 961	11 962	-0,58	106,0	0,00	92,56	-	-	0,00	0,00	-
27	11 758	11 759	-0,39	106,0	0,00	92,41	-	-	0,00	0,00	-
28	11 078	11 079	0,26	106,0	0,00	91,89	-	-	0,00	0,00	-
29	11 644	11 645	-0,29	106,0	0,00	92,32	-	-	0,00	0,00	-
3	1 548	1 554	26,40	106,9	0,00	74,83	-	-	0,00	0,00	-
30	4 121	4 125	11,25	104,0	0,00	83,31	-	-	0,00	0,00	-
31	3 539	3 543	13,27	104,0	0,00	81,99	-	-	0,00	0,00	-
32	2 744	2 749	16,58	104,0	0,00	79,78	-	-	0,00	0,00	-
33	2 442	2 448	18,06	104,0	0,00	78,77	-	-	0,00	0,00	-
34	1 513	1 522	23,86	104,0	0,00	74,65	-	-	0,00	0,00	-
35	998	1 011	28,56	104,0	0,00	71,10	-	-	0,00	0,00	-
36	1 534	1 543	23,70	104,0	0,00	74,77	-	-	0,00	0,00	-
37	1 628	1 636	23,00	104,0	0,00	75,28	-	-	0,00	0,00	-
38	2 411	2 416	18,22	104,0	0,00	78,66	-	-	0,00	0,00	-
4	2 066	2 070	22,91	106,9	0,00	77,32	-	-	0,00	0,00	-
5	2 791	2 794	19,12	106,9	0,00	79,92	-	-	0,00	0,00	-
6	2 915	2 918	18,56	106,9	0,00	80,30	-	-	0,00	0,00	-
7	3 165	3 167	17,51	106,9	0,00	81,01	-	-	0,00	0,00	-
8	3 364	3 367	16,71	106,9	0,00	81,54	-	-	0,00	0,00	-
9	4 198	4 200	13,85	106,9	0,00	83,46	-	-	0,00	0,00	-
Sum			34,87								

- Data undefined due to calculation with octave data

Noise sensitive area: AA Sklypas/40 m saugotina aplinka: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (27)

Wind speed: 10,0 m/s

WTG No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	8 937	8 938	5,01	106,9	0,00	90,02	-	-	0,00	0,00	-
10	4 813	4 815	12,24	106,9	0,00	84,65	-	-	0,00	0,00	-
11	3 479	3 483	15,64	107,0	0,00	81,84	-	-	0,00	0,00	-
12	3 838	3 842	14,30	107,0	0,00	82,69	-	-	0,00	0,00	-
13	3 151	3 156	16,97	107,0	0,00	80,98	-	-	0,00	0,00	-
14	2 694	2 699	19,08	107,0	0,00	79,62	-	-	0,00	0,00	-
15	3 586	3 590	15,22	107,0	0,00	82,10	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
16	4 309	4 312	12,72	107,0	0,00	83,69	-	-	0,00	0,00	-
17	3 706	3 709	14,78	107,0	0,00	82,39	-	-	0,00	0,00	-
18	3 682	3 686	14,86	107,0	0,00	82,33	-	-	0,00	0,00	-
19	3 136	3 140	17,04	107,0	0,00	80,94	-	-	0,00	0,00	-
2	9 348	9 348	4,50	106,9	0,00	90,41	-	-	0,00	0,00	-
20	3 813	3 816	11,84	104,0	0,00	82,63	-	-	0,00	0,00	-
21	3 225	3 228	14,08	104,0	0,00	81,18	-	-	0,00	0,00	-
22	2 740	2 743	16,22	104,0	0,00	79,77	-	-	0,00	0,00	-
23	2 235	2 240	18,85	104,0	0,00	78,01	-	-	0,00	0,00	-
24	12 390	12 391	-0,97	106,0	0,00	92,86	-	-	0,00	0,00	-
25	12 484	12 485	-1,05	106,0	0,00	92,93	-	-	0,00	0,00	-
26	12 012	12 013	-0,63	106,0	0,00	92,59	-	-	0,00	0,00	-
27	11 810	11 811	-0,44	106,0	0,00	92,45	-	-	0,00	0,00	-
28	11 130	11 131	0,21	106,0	0,00	91,93	-	-	0,00	0,00	-
29	11 697	11 699	-0,34	106,0	0,00	92,36	-	-	0,00	0,00	-
3	1 589	1 594	26,09	106,9	0,00	75,05	-	-	0,00	0,00	-
30	4 176	4 179	11,08	104,0	0,00	83,42	-	-	0,00	0,00	-
31	3 596	3 599	13,06	104,0	0,00	82,12	-	-	0,00	0,00	-
32	2 784	2 789	16,39	104,0	0,00	79,91	-	-	0,00	0,00	-
33	2 497	2 502	17,78	104,0	0,00	78,97	-	-	0,00	0,00	-
34	1 563	1 571	23,48	104,0	0,00	74,93	-	-	0,00	0,00	-
35	1 054	1 065	27,97	104,0	0,00	71,55	-	-	0,00	0,00	-
36	1 592	1 600	23,27	104,0	0,00	75,08	-	-	0,00	0,00	-
37	1 683	1 691	22,61	104,0	0,00	75,56	-	-	0,00	0,00	-
38	2 463	2 468	17,95	104,0	0,00	78,85	-	-	0,00	0,00	-
4	2 100	2 104	22,71	106,9	0,00	77,46	-	-	0,00	0,00	-
5	2 815	2 818	19,01	106,9	0,00	80,00	-	-	0,00	0,00	-
6	2 924	2 927	18,53	106,9	0,00	80,33	-	-	0,00	0,00	-
7	3 165	3 168	17,50	106,9	0,00	81,02	-	-	0,00	0,00	-
8	3 328	3 330	16,85	106,9	0,00	81,45	-	-	0,00	0,00	-
9	4 184	4 186	13,89	106,9	0,00	83,44	-	-	0,00	0,00	-
Sum			34,57								

- Data undefined due to calculation with octave data

Noise sensitive area: AB Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (28)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	8 947	8 948	5,00	106,9	0,00	90,03	-	-	0,00	0,00	-
10	4 838	4 839	12,18	106,9	0,00	84,70	-	-	0,00	0,00	-
11	3 444	3 448	15,77	107,0	0,00	81,75	-	-	0,00	0,00	-
12	3 806	3 810	14,41	107,0	0,00	82,62	-	-	0,00	0,00	-
13	3 114	3 118	17,14	107,0	0,00	80,88	-	-	0,00	0,00	-
14	2 659	2 664	19,26	107,0	0,00	79,51	-	-	0,00	0,00	-
15	3 550	3 554	15,36	107,0	0,00	82,01	-	-	0,00	0,00	-
16	4 323	4 326	12,68	107,0	0,00	83,72	-	-	0,00	0,00	-
17	3 719	3 722	14,73	107,0	0,00	82,42	-	-	0,00	0,00	-
18	3 679	3 683	14,87	107,0	0,00	82,32	-	-	0,00	0,00	-
19	3 103	3 107	17,18	107,0	0,00	80,85	-	-	0,00	0,00	-
2	9 358	9 359	4,48	106,9	0,00	90,42	-	-	0,00	0,00	-
20	3 784	3 787	11,94	104,0	0,00	82,57	-	-	0,00	0,00	-
21	3 197	3 200	14,19	104,0	0,00	81,10	-	-	0,00	0,00	-
22	2 711	2 715	16,36	104,0	0,00	79,67	-	-	0,00	0,00	-
23	2 197	2 202	19,07	104,0	0,00	77,86	-	-	0,00	0,00	-
24	12 389	12 390	-0,97	106,0	0,00	92,86	-	-	0,00	0,00	-
25	12 480	12 481	-1,05	106,0	0,00	92,93	-	-	0,00	0,00	-
26	12 007	12 008	-0,62	106,0	0,00	92,59	-	-	0,00	0,00	-
27	11 807	11 808	-0,44	106,0	0,00	92,44	-	-	0,00	0,00	-
28	11 125	11 127	0,21	106,0	0,00	91,93	-	-	0,00	0,00	-
29	11 696	11 697	-0,34	106,0	0,00	92,36	-	-	0,00	0,00	-
3	1 625	1 630	25,83	106,9	0,00	75,24	-	-	0,00	0,00	-
30	4 176	4 179	11,08	104,0	0,00	83,42	-	-	0,00	0,00	-
31	3 601	3 604	13,04	104,0	0,00	82,14	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
32	2 768	2 772	16,47	104,0	0,00	79,86	-	-	0,00	0,00	-
33	2 500	2 505	17,76	104,0	0,00	78,97	-	-	0,00	0,00	-
34	1 557	1 565	23,53	104,0	0,00	74,89	-	-	0,00	0,00	-
35	1 057	1 069	27,94	104,0	0,00	71,58	-	-	0,00	0,00	-
36	1 606	1 614	23,16	104,0	0,00	75,16	-	-	0,00	0,00	-
37	1 708	1 715	22,44	104,0	0,00	75,68	-	-	0,00	0,00	-
38	2 491	2 496	17,81	104,0	0,00	78,95	-	-	0,00	0,00	-
4	2 138	2 141	22,49	106,9	0,00	77,61	-	-	0,00	0,00	-
5	2 854	2 857	18,84	106,9	0,00	80,12	-	-	0,00	0,00	-
6	2 962	2 965	18,36	106,9	0,00	80,44	-	-	0,00	0,00	-
7	3 202	3 205	17,35	106,9	0,00	81,12	-	-	0,00	0,00	-
8	3 348	3 351	16,77	106,9	0,00	81,50	-	-	0,00	0,00	-
9	4 216	4 218	13,80	106,9	0,00	83,50	-	-	0,00	0,00	-
Sum			34,50								

- Data undefined due to calculation with octave data

Noise sensitive area: AC Sklypas/40 m saugotina aplinka: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (29)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 917	11 917	1,73	106,9	0,00	92,52	-	-	0,00	0,00	-
10	2 255	2 258	21,82	106,9	0,00	78,08	-	-	0,00	0,00	-
11	4 215	4 218	13,02	107,0	0,00	83,50	-	-	0,00	0,00	-
12	4 135	4 138	13,28	107,0	0,00	83,34	-	-	0,00	0,00	-
13	5 565	5 567	9,41	107,0	0,00	85,91	-	-	0,00	0,00	-
14	5 412	5 414	9,74	107,0	0,00	85,67	-	-	0,00	0,00	-
15	6 152	6 154	8,23	107,0	0,00	86,78	-	-	0,00	0,00	-
16	7 241	7 242	6,35	107,0	0,00	88,20	-	-	0,00	0,00	-
17	6 693	6 695	7,25	107,0	0,00	87,51	-	-	0,00	0,00	-
18	6 949	6 951	6,82	107,0	0,00	87,84	-	-	0,00	0,00	-
19	5 957	5 959	8,61	107,0	0,00	86,50	-	-	0,00	0,00	-
2	12 298	12 299	1,37	106,9	0,00	92,80	-	-	0,00	0,00	-
20	6 788	6 789	4,70	104,0	0,00	87,64	-	-	0,00	0,00	-
21	6 283	6 285	5,61	104,0	0,00	86,97	-	-	0,00	0,00	-
22	5 777	5 778	6,61	104,0	0,00	86,24	-	-	0,00	0,00	-
23	4 770	4 772	8,90	104,0	0,00	84,57	-	-	0,00	0,00	-
24	15 618	15 619	-3,53	106,0	0,00	94,87	-	-	0,00	0,00	-
25	15 734	15 735	-3,62	106,0	0,00	94,94	-	-	0,00	0,00	-
26	15 279	15 280	-3,29	106,0	0,00	94,68	-	-	0,00	0,00	-
27	15 062	15 063	-3,13	106,0	0,00	94,56	-	-	0,00	0,00	-
28	14 392	14 393	-2,63	106,0	0,00	94,16	-	-	0,00	0,00	-
29	14 923	14 924	-3,03	106,0	0,00	94,48	-	-	0,00	0,00	-
3	3 895	3 897	14,80	106,9	0,00	82,81	-	-	0,00	0,00	-
30	7 405	7 406	3,89	104,0	0,00	88,39	-	-	0,00	0,00	-
31	6 759	6 761	4,99	104,0	0,00	87,60	-	-	0,00	0,00	-
32	6 047	6 049	6,35	104,0	0,00	86,63	-	-	0,00	0,00	-
33	5 721	5 723	7,02	104,0	0,00	86,15	-	-	0,00	0,00	-
34	4 847	4 850	9,08	104,0	0,00	84,71	-	-	0,00	0,00	-
35	4 301	4 304	10,68	104,0	0,00	83,68	-	-	0,00	0,00	-
36	4 680	4 682	9,55	104,0	0,00	84,41	-	-	0,00	0,00	-
37	4 514	4 516	10,03	104,0	0,00	84,10	-	-	0,00	0,00	-
38	4 980	4 982	8,71	104,0	0,00	84,95	-	-	0,00	0,00	-
4	3 938	3 940	14,65	106,9	0,00	82,91	-	-	0,00	0,00	-
5	3 933	3 935	14,67	106,9	0,00	82,90	-	-	0,00	0,00	-
6	3 286	3 288	17,02	106,9	0,00	81,34	-	-	0,00	0,00	-
7	3 029	3 031	18,07	106,9	0,00	80,63	-	-	0,00	0,00	-
8	935	944	32,17	106,9	0,00	70,50	-	-	0,00	0,00	-
9	2 756	2 758	19,29	106,9	0,00	79,81	-	-	0,00	0,00	-
Sum			33,55								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: AD Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (30)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 921	11 922	1,72	106,9	0,00	92,53	-	-	0,00	0,00	-
10	2 291	2 295	21,62	106,9	0,00	78,21	-	-	0,00	0,00	-
11	4 180	4 183	13,13	107,0	0,00	83,43	-	-	0,00	0,00	-
12	4 098	4 102	13,40	107,0	0,00	83,26	-	-	0,00	0,00	-
13	5 539	5 541	9,47	107,0	0,00	85,87	-	-	0,00	0,00	-
14	5 389	5 391	9,80	107,0	0,00	85,63	-	-	0,00	0,00	-
15	6 126	6 128	8,28	107,0	0,00	86,75	-	-	0,00	0,00	-
16	7 244	7 246	6,34	107,0	0,00	88,20	-	-	0,00	0,00	-
17	6 695	6 697	7,25	107,0	0,00	87,52	-	-	0,00	0,00	-
18	6 942	6 944	6,83	107,0	0,00	87,83	-	-	0,00	0,00	-
19	5 935	5 937	8,65	107,0	0,00	86,47	-	-	0,00	0,00	-
2	12 303	12 304	1,36	106,9	0,00	92,80	-	-	0,00	0,00	-
20	6 767	6 769	4,74	104,0	0,00	87,61	-	-	0,00	0,00	-
21	6 264	6 266	5,65	104,0	0,00	86,94	-	-	0,00	0,00	-
22	5 758	5 760	6,65	104,0	0,00	86,21	-	-	0,00	0,00	-
23	4 746	4 748	8,95	104,0	0,00	84,53	-	-	0,00	0,00	-
24	15 615	15 616	-3,53	106,0	0,00	94,87	-	-	0,00	0,00	-
25	15 730	15 730	-3,61	106,0	0,00	94,93	-	-	0,00	0,00	-
26	15 274	15 274	-3,29	106,0	0,00	94,68	-	-	0,00	0,00	-
27	15 057	15 058	-3,13	106,0	0,00	94,56	-	-	0,00	0,00	-
28	14 387	14 388	-2,62	106,0	0,00	94,16	-	-	0,00	0,00	-
29	14 920	14 921	-3,03	106,0	0,00	94,48	-	-	0,00	0,00	-
3	3 901	3 903	14,78	106,9	0,00	82,83	-	-	0,00	0,00	-
30	7 401	7 402	3,90	104,0	0,00	88,39	-	-	0,00	0,00	-
31	6 757	6 759	5,00	104,0	0,00	87,60	-	-	0,00	0,00	-
32	6 035	6 037	6,37	104,0	0,00	86,62	-	-	0,00	0,00	-
33	5 716	5 718	7,03	104,0	0,00	86,15	-	-	0,00	0,00	-
34	4 839	4 842	9,10	104,0	0,00	84,70	-	-	0,00	0,00	-
35	4 294	4 297	10,70	104,0	0,00	83,66	-	-	0,00	0,00	-
36	4 678	4 680	9,56	104,0	0,00	84,41	-	-	0,00	0,00	-
37	4 515	4 518	10,03	104,0	0,00	84,10	-	-	0,00	0,00	-
38	4 987	4 989	8,69	104,0	0,00	84,96	-	-	0,00	0,00	-
4	3 949	3 951	14,62	106,9	0,00	82,93	-	-	0,00	0,00	-
5	3 952	3 954	14,61	106,9	0,00	82,94	-	-	0,00	0,00	-
6	3 309	3 311	16,93	106,9	0,00	81,40	-	-	0,00	0,00	-
7	3 056	3 058	17,96	106,9	0,00	80,71	-	-	0,00	0,00	-
8	970	979	31,76	106,9	0,00	70,81	-	-	0,00	0,00	-
9	2 792	2 794	19,12	106,9	0,00	79,93	-	-	0,00	0,00	-
Sum			33,23								

- Data undefined due to calculation with octave data

Noise sensitive area: AE Sklypas/40 m saugotina aplinka: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (31)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 029	12 030	1,62	106,9	0,00	92,61	-	-	0,00	0,00	-
10	2 211	2 215	22,07	106,9	0,00	77,91	-	-	0,00	0,00	-
11	4 275	4 278	12,83	107,0	0,00	83,63	-	-	0,00	0,00	-
12	4 181	4 185	13,13	107,0	0,00	83,43	-	-	0,00	0,00	-
13	5 660	5 662	9,21	107,0	0,00	86,06	-	-	0,00	0,00	-
14	5 514	5 516	9,52	107,0	0,00	85,83	-	-	0,00	0,00	-
15	6 249	6 251	8,05	107,0	0,00	86,92	-	-	0,00	0,00	-
16	7 354	7 355	6,17	107,0	0,00	88,33	-	-	0,00	0,00	-
17	6 807	6 809	7,06	107,0	0,00	87,66	-	-	0,00	0,00	-
18	7 065	7 067	6,63	107,0	0,00	87,98	-	-	0,00	0,00	-
19	6 061	6 063	8,41	107,0	0,00	86,65	-	-	0,00	0,00	-
2	12 410	12 410	1,27	106,9	0,00	92,88	-	-	0,00	0,00	-
20	6 894	6 896	4,52	104,0	0,00	87,77	-	-	0,00	0,00	-
21	6 392	6 393	5,41	104,0	0,00	87,11	-	-	0,00	0,00	-
22	5 886	5 887	6,39	104,0	0,00	86,40	-	-	0,00	0,00	-
23	4 870	4 873	8,64	104,0	0,00	84,76	-	-	0,00	0,00	-
24	15 735	15 736	-3,62	106,0	0,00	94,94	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
25	15 851	15 851	-3,70	106,0	0,00	95,00	-	-	0,00	0,00	-
26	15 396	15 397	-3,37	106,0	0,00	94,75	-	-	0,00	0,00	-
27	15 178	15 179	-3,22	106,0	0,00	94,62	-	-	0,00	0,00	-
28	14 509	14 510	-2,71	106,0	0,00	94,23	-	-	0,00	0,00	-
29	15 039	15 040	-3,11	106,0	0,00	94,55	-	-	0,00	0,00	-
3	4 006	4 008	14,43	106,9	0,00	83,06	-	-	0,00	0,00	-
30	7 521	7 523	3,70	104,0	0,00	88,53	-	-	0,00	0,00	-
31	6 875	6 877	4,79	104,0	0,00	87,75	-	-	0,00	0,00	-
32	6 162	6 164	6,12	104,0	0,00	86,80	-	-	0,00	0,00	-
33	5 837	5 839	6,78	104,0	0,00	86,33	-	-	0,00	0,00	-
34	4 964	4 966	8,76	104,0	0,00	84,92	-	-	0,00	0,00	-
35	4 418	4 420	10,32	104,0	0,00	83,91	-	-	0,00	0,00	-
36	4 796	4 798	9,22	104,0	0,00	84,62	-	-	0,00	0,00	-
37	4 628	4 631	9,70	104,0	0,00	84,31	-	-	0,00	0,00	-
38	5 090	5 092	8,44	104,0	0,00	85,14	-	-	0,00	0,00	-
4	4 043	4 045	14,31	106,9	0,00	83,14	-	-	0,00	0,00	-
5	4 025	4 026	14,37	106,9	0,00	83,10	-	-	0,00	0,00	-
6	3 367	3 369	16,70	106,9	0,00	81,55	-	-	0,00	0,00	-
7	3 099	3 101	17,78	106,9	0,00	80,83	-	-	0,00	0,00	-
8	966	974	31,81	106,9	0,00	70,77	-	-	0,00	0,00	-
9	2 776	2 779	19,19	106,9	0,00	79,88	-	-	0,00	0,00	-
Sum			33,26								

- Data undefined due to calculation with octave data

Noise sensitive area: AF Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (32)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 004	12 005	1,64	106,9	0,00	92,59	-	-	0,00	0,00	-
10	2 242	2 246	21,89	106,9	0,00	78,03	-	-	0,00	0,00	-
11	4 241	4 244	12,94	107,0	0,00	83,56	-	-	0,00	0,00	-
12	4 149	4 152	13,24	107,0	0,00	83,37	-	-	0,00	0,00	-
13	5 622	5 624	9,29	107,0	0,00	86,00	-	-	0,00	0,00	-
14	5 476	5 478	9,60	107,0	0,00	85,77	-	-	0,00	0,00	-
15	6 211	6 213	8,12	107,0	0,00	86,87	-	-	0,00	0,00	-
16	7 328	7 330	6,21	107,0	0,00	88,30	-	-	0,00	0,00	-
17	6 780	6 782	7,10	107,0	0,00	87,63	-	-	0,00	0,00	-
18	7 033	7 035	6,68	107,0	0,00	87,94	-	-	0,00	0,00	-
19	6 023	6 025	8,48	107,0	0,00	86,60	-	-	0,00	0,00	-
2	12 385	12 386	1,29	106,9	0,00	92,86	-	-	0,00	0,00	-
20	6 856	6 858	4,59	104,0	0,00	87,72	-	-	0,00	0,00	-
21	6 355	6 356	5,48	104,0	0,00	87,06	-	-	0,00	0,00	-
22	5 848	5 850	6,46	104,0	0,00	86,34	-	-	0,00	0,00	-
23	4 832	4 835	8,74	104,0	0,00	84,69	-	-	0,00	0,00	-
24	15 704	15 705	-3,60	106,0	0,00	94,92	-	-	0,00	0,00	-
25	15 819	15 820	-3,68	106,0	0,00	94,98	-	-	0,00	0,00	-
26	15 364	15 365	-3,35	106,0	0,00	94,73	-	-	0,00	0,00	-
27	15 147	15 148	-3,19	106,0	0,00	94,61	-	-	0,00	0,00	-
28	14 477	14 478	-2,69	106,0	0,00	94,21	-	-	0,00	0,00	-
29	15 009	15 010	-3,09	106,0	0,00	94,53	-	-	0,00	0,00	-
3	3 982	3 984	14,51	106,9	0,00	83,01	-	-	0,00	0,00	-
30	7 490	7 492	3,75	104,0	0,00	88,49	-	-	0,00	0,00	-
31	6 845	6 847	4,84	104,0	0,00	87,71	-	-	0,00	0,00	-
32	6 127	6 129	6,19	104,0	0,00	86,75	-	-	0,00	0,00	-
33	5 806	5 808	6,84	104,0	0,00	86,28	-	-	0,00	0,00	-
34	4 930	4 933	8,85	104,0	0,00	84,86	-	-	0,00	0,00	-
35	4 385	4 388	10,42	104,0	0,00	83,85	-	-	0,00	0,00	-
36	4 766	4 769	9,30	104,0	0,00	84,57	-	-	0,00	0,00	-
37	4 601	4 603	9,78	104,0	0,00	84,26	-	-	0,00	0,00	-
38	5 067	5 069	8,49	104,0	0,00	85,10	-	-	0,00	0,00	-
4	4 023	4 025	14,37	106,9	0,00	83,10	-	-	0,00	0,00	-
5	4 012	4 014	14,41	106,9	0,00	83,07	-	-	0,00	0,00	-
6	3 359	3 362	16,73	106,9	0,00	81,53	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
7	3 096	3 099	17,79	106,9	0,00	80,82	-	-	0,00	0,00	-
8	976	984	31,69	106,9	0,00	70,86	-	-	0,00	0,00	-
9	2 791	2 793	19,13	106,9	0,00	79,92	-	-	0,00	0,00	-
Sum			33,16								

- Data undefined due to calculation with octave data

Noise sensitive area: AG Sklypas/40 m saugotina aplinka: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (33)

Wind speed: 10,0 m/s

WTG No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 105	12 106	1,55	106,9	0,00	92,66	-	-	0,00	0,00	-
10	2 185	2 188	22,22	106,9	0,00	77,80	-	-	0,00	0,00	-
11	4 317	4 321	12,69	107,0	0,00	83,71	-	-	0,00	0,00	-
12	4 215	4 218	13,02	107,0	0,00	83,50	-	-	0,00	0,00	-
13	5 725	5 727	9,08	107,0	0,00	86,16	-	-	0,00	0,00	-
14	5 584	5 586	9,37	107,0	0,00	85,94	-	-	0,00	0,00	-
15	6 315	6 317	7,93	107,0	0,00	87,01	-	-	0,00	0,00	-
16	7 430	7 432	6,05	107,0	0,00	88,42	-	-	0,00	0,00	-
17	6 884	6 886	6,93	107,0	0,00	87,76	-	-	0,00	0,00	-
18	7 144	7 146	6,50	107,0	0,00	88,08	-	-	0,00	0,00	-
19	6 131	6 133	8,27	107,0	0,00	86,75	-	-	0,00	0,00	-
2	12 485	12 486	1,20	106,9	0,00	92,93	-	-	0,00	0,00	-
20	6 966	6 968	4,40	104,0	0,00	87,86	-	-	0,00	0,00	-
21	6 466	6 467	5,28	104,0	0,00	87,21	-	-	0,00	0,00	-
22	5 959	5 961	6,24	104,0	0,00	86,51	-	-	0,00	0,00	-
23	4 939	4 941	8,48	104,0	0,00	84,88	-	-	0,00	0,00	-
24	15 814	15 814	-3,67	106,0	0,00	94,98	-	-	0,00	0,00	-
25	15 929	15 930	-3,75	106,0	0,00	95,04	-	-	0,00	0,00	-
26	15 475	15 476	-3,43	106,0	0,00	94,79	-	-	0,00	0,00	-
27	15 257	15 258	-3,27	106,0	0,00	94,67	-	-	0,00	0,00	-
28	14 588	14 589	-2,77	106,0	0,00	94,28	-	-	0,00	0,00	-
29	15 118	15 119	-3,17	106,0	0,00	94,59	-	-	0,00	0,00	-
3	4 081	4 083	14,18	106,9	0,00	83,22	-	-	0,00	0,00	-
30	7 600	7 602	3,57	104,0	0,00	88,62	-	-	0,00	0,00	-
31	6 954	6 956	4,65	104,0	0,00	87,85	-	-	0,00	0,00	-
32	6 239	6 241	5,97	104,0	0,00	86,91	-	-	0,00	0,00	-
33	5 916	5 918	6,61	104,0	0,00	86,44	-	-	0,00	0,00	-
34	5 042	5 045	8,55	104,0	0,00	85,06	-	-	0,00	0,00	-
35	4 496	4 499	10,09	104,0	0,00	84,06	-	-	0,00	0,00	-
36	4 875	4 877	9,00	104,0	0,00	84,76	-	-	0,00	0,00	-
37	4 705	4 708	9,48	104,0	0,00	84,46	-	-	0,00	0,00	-
38	5 164	5 167	8,26	104,0	0,00	85,26	-	-	0,00	0,00	-
4	4 114	4 116	14,09	106,9	0,00	83,29	-	-	0,00	0,00	-
5	4 087	4 089	14,17	106,9	0,00	83,23	-	-	0,00	0,00	-
6	3 422	3 425	16,49	106,9	0,00	81,69	-	-	0,00	0,00	-
7	3 148	3 150	17,58	106,9	0,00	80,97	-	-	0,00	0,00	-
8	993	1 001	31,50	106,9	0,00	71,01	-	-	0,00	0,00	-
9	2 792	2 795	19,12	106,9	0,00	79,93	-	-	0,00	0,00	-
Sum			33,01								

- Data undefined due to calculation with octave data

Noise sensitive area: AH Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (34)

Wind speed: 10,0 m/s

WTG No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 116	12 117	1,54	106,9	0,00	92,67	-	-	0,00	0,00	-
10	2 223	2 226	22,00	106,9	0,00	77,95	-	-	0,00	0,00	-
11	4 284	4 287	12,80	107,0	0,00	83,64	-	-	0,00	0,00	-
12	4 179	4 182	13,14	107,0	0,00	83,43	-	-	0,00	0,00	-
13	5 703	5 705	9,12	107,0	0,00	86,13	-	-	0,00	0,00	-
14	5 566	5 568	9,41	107,0	0,00	85,91	-	-	0,00	0,00	-
15	6 294	6 296	7,97	107,0	0,00	86,98	-	-	0,00	0,00	-

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DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
16	7 440	7 442	6,03	107,0	0,00	88,43	-	-	0,00	0,00	-
17	6 893	6 894	6,91	107,0	0,00	87,77	-	-	0,00	0,00	-
18	7 144	7 146	6,50	107,0	0,00	88,08	-	-	0,00	0,00	-
19	6 114	6 116	8,31	107,0	0,00	86,73	-	-	0,00	0,00	-
2	12 497	12 498	1,19	106,9	0,00	92,94	-	-	0,00	0,00	-
20	6 951	6 952	4,43	104,0	0,00	87,84	-	-	0,00	0,00	-
21	6 452	6 454	5,30	104,0	0,00	87,20	-	-	0,00	0,00	-
22	5 946	5 948	6,27	104,0	0,00	86,49	-	-	0,00	0,00	-
23	4 920	4 922	8,52	104,0	0,00	84,84	-	-	0,00	0,00	-
24	15 816	15 817	-3,68	106,0	0,00	94,98	-	-	0,00	0,00	-
25	15 931	15 932	-3,76	106,0	0,00	95,05	-	-	0,00	0,00	-
26	15 475	15 476	-3,43	106,0	0,00	94,79	-	-	0,00	0,00	-
27	15 259	15 260	-3,27	106,0	0,00	94,67	-	-	0,00	0,00	-
28	14 588	14 589	-2,78	106,0	0,00	94,28	-	-	0,00	0,00	-
29	15 121	15 122	-3,17	106,0	0,00	94,59	-	-	0,00	0,00	-
3	4 094	4 095	14,15	106,9	0,00	83,25	-	-	0,00	0,00	-
30	7 602	7 604	3,57	104,0	0,00	88,62	-	-	0,00	0,00	-
31	6 958	6 960	4,64	104,0	0,00	87,85	-	-	0,00	0,00	-
32	6 233	6 235	5,98	104,0	0,00	86,90	-	-	0,00	0,00	-
33	5 918	5 920	6,61	104,0	0,00	86,45	-	-	0,00	0,00	-
34	5 040	5 042	8,56	104,0	0,00	85,05	-	-	0,00	0,00	-
35	4 496	4 499	10,09	104,0	0,00	84,06	-	-	0,00	0,00	-
36	4 879	4 881	8,99	104,0	0,00	84,77	-	-	0,00	0,00	-
37	4 713	4 716	9,45	104,0	0,00	84,47	-	-	0,00	0,00	-
38	5 178	5 180	8,23	104,0	0,00	85,29	-	-	0,00	0,00	-
4	4 131	4 133	14,04	106,9	0,00	83,33	-	-	0,00	0,00	-
5	4 112	4 113	14,09	106,9	0,00	83,28	-	-	0,00	0,00	-
6	3 451	3 453	16,38	106,9	0,00	81,76	-	-	0,00	0,00	-
7	3 179	3 181	17,45	106,9	0,00	81,05	-	-	0,00	0,00	-
8	1 030	1 038	31,09	106,9	0,00	71,32	-	-	0,00	0,00	-
9	2 831	2 834	18,94	106,9	0,00	80,05	-	-	0,00	0,00	-
Sum			32,69								

- Data undefined due to calculation with octave data

Noise sensitive area: AI Sklypas/40 m saugotina aplinka: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (35)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 791	11 792	1,85	106,9	0,00	92,43	-	-	0,00	0,00	-
10	738	748	34,76	106,9	0,00	68,48	-	-	0,00	0,00	-
11	5 892	5 895	8,74	107,0	0,00	86,41	-	-	0,00	0,00	-
12	5 868	5 870	8,79	107,0	0,00	86,37	-	-	0,00	0,00	-
13	6 897	6 899	6,91	107,0	0,00	87,78	-	-	0,00	0,00	-
14	6 613	6 615	7,39	107,0	0,00	87,41	-	-	0,00	0,00	-
15	7 441	7 442	6,03	107,0	0,00	88,43	-	-	0,00	0,00	-
16	7 238	7 240	6,35	107,0	0,00	88,19	-	-	0,00	0,00	-
17	6 779	6 781	7,10	107,0	0,00	87,63	-	-	0,00	0,00	-
18	7 417	7 419	6,07	107,0	0,00	88,41	-	-	0,00	0,00	-
19	7 120	7 122	6,54	107,0	0,00	88,05	-	-	0,00	0,00	-
2	12 133	12 133	1,52	106,9	0,00	92,68	-	-	0,00	0,00	-
20	7 868	7 869	2,98	104,0	0,00	88,92	-	-	0,00	0,00	-
21	7 297	7 298	3,86	104,0	0,00	88,26	-	-	0,00	0,00	-
22	6 803	6 804	4,68	104,0	0,00	87,66	-	-	0,00	0,00	-
23	6 022	6 024	6,12	104,0	0,00	86,60	-	-	0,00	0,00	-
24	15 823	15 824	-3,68	106,0	0,00	94,99	-	-	0,00	0,00	-
25	15 999	16 000	-3,80	106,0	0,00	95,08	-	-	0,00	0,00	-
26	15 609	15 610	-3,53	106,0	0,00	94,87	-	-	0,00	0,00	-
27	15 335	15 336	-3,33	106,0	0,00	94,71	-	-	0,00	0,00	-
28	14 709	14 710	-2,87	106,0	0,00	94,35	-	-	0,00	0,00	-
29	15 127	15 128	-3,18	106,0	0,00	94,60	-	-	0,00	0,00	-
3	3 975	3 977	14,53	106,9	0,00	82,99	-	-	0,00	0,00	-
30	7 764	7 766	3,32	104,0	0,00	88,80	-	-	0,00	0,00	-
31	7 040	7 042	4,50	104,0	0,00	87,95	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
32	6 810	6 812	4,90	104,0	0,00	87,67	-	-	0,00	0,00	-
33	6 156	6 158	6,13	104,0	0,00	86,79	-	-	0,00	0,00	-
34	5 486	5 489	7,53	104,0	0,00	85,79	-	-	0,00	0,00	-
35	4 897	4 900	8,94	104,0	0,00	84,80	-	-	0,00	0,00	-
36	5 059	5 061	8,51	104,0	0,00	85,09	-	-	0,00	0,00	-
37	4 732	4 734	9,40	104,0	0,00	84,51	-	-	0,00	0,00	-
38	4 914	4 917	8,89	104,0	0,00	84,83	-	-	0,00	0,00	-
4	3 753	3 756	15,28	106,9	0,00	82,49	-	-	0,00	0,00	-
5	3 360	3 362	16,73	106,9	0,00	81,53	-	-	0,00	0,00	-
6	2 548	2 551	20,28	106,9	0,00	79,14	-	-	0,00	0,00	-
7	2 116	2 119	22,62	106,9	0,00	77,52	-	-	0,00	0,00	-
8	946	954	32,05	106,9	0,00	70,59	-	-	0,00	0,00	-
9	1 153	1 160	29,82	106,9	0,00	72,29	-	-	0,00	0,00	-
Sum			37,83								

- Data undefined due to calculation with octave data

Noise sensitive area: AJ Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (36)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	11 823	11 823	1,82	106,9	0,00	92,45	-	-	0,00	0,00	-
10	698	709	35,35	106,9	0,00	68,01	-	-	0,00	0,00	-
11	5 926	5 928	8,67	107,0	0,00	86,46	-	-	0,00	0,00	-
12	5 899	5 901	8,73	107,0	0,00	86,42	-	-	0,00	0,00	-
13	6 936	6 938	6,84	107,0	0,00	87,82	-	-	0,00	0,00	-
14	6 653	6 655	7,32	107,0	0,00	87,46	-	-	0,00	0,00	-
15	7 480	7 482	5,97	107,0	0,00	88,48	-	-	0,00	0,00	-
16	7 272	7 274	6,30	107,0	0,00	88,24	-	-	0,00	0,00	-
17	6 815	6 816	7,04	107,0	0,00	87,67	-	-	0,00	0,00	-
18	7 455	7 457	6,01	107,0	0,00	88,45	-	-	0,00	0,00	-
19	7 160	7 162	6,47	107,0	0,00	88,10	-	-	0,00	0,00	-
2	12 163	12 164	1,49	106,9	0,00	92,70	-	-	0,00	0,00	-
20	7 908	7 910	2,92	104,0	0,00	88,96	-	-	0,00	0,00	-
21	7 337	7 338	3,79	104,0	0,00	88,31	-	-	0,00	0,00	-
22	6 843	6 844	4,61	104,0	0,00	87,71	-	-	0,00	0,00	-
23	6 062	6 064	6,04	104,0	0,00	86,65	-	-	0,00	0,00	-
24	15 858	15 859	-3,70	106,0	0,00	95,01	-	-	0,00	0,00	-
25	16 035	16 036	-3,83	106,0	0,00	95,10	-	-	0,00	0,00	-
26	15 646	15 647	-3,55	106,0	0,00	94,89	-	-	0,00	0,00	-
27	15 371	15 372	-3,36	106,0	0,00	94,73	-	-	0,00	0,00	-
28	14 746	14 746	-2,89	106,0	0,00	94,37	-	-	0,00	0,00	-
29	15 162	15 163	-3,20	106,0	0,00	94,62	-	-	0,00	0,00	-
3	4 012	4 014	14,41	106,9	0,00	83,07	-	-	0,00	0,00	-
30	7 802	7 804	3,26	104,0	0,00	88,85	-	-	0,00	0,00	-
31	7 077	7 079	4,44	104,0	0,00	88,00	-	-	0,00	0,00	-
32	6 850	6 852	4,83	104,0	0,00	87,72	-	-	0,00	0,00	-
33	6 194	6 196	6,05	104,0	0,00	86,84	-	-	0,00	0,00	-
34	5 526	5 528	7,44	104,0	0,00	85,85	-	-	0,00	0,00	-
35	4 937	4 939	8,83	104,0	0,00	84,87	-	-	0,00	0,00	-
36	5 098	5 100	8,42	104,0	0,00	85,15	-	-	0,00	0,00	-
37	4 769	4 772	9,29	104,0	0,00	84,57	-	-	0,00	0,00	-
38	4 949	4 951	8,80	104,0	0,00	84,89	-	-	0,00	0,00	-
4	3 788	3 790	15,16	106,9	0,00	82,57	-	-	0,00	0,00	-
5	3 389	3 391	16,62	106,9	0,00	81,61	-	-	0,00	0,00	-
6	2 576	2 579	20,14	106,9	0,00	79,23	-	-	0,00	0,00	-
7	2 141	2 145	22,47	106,9	0,00	77,63	-	-	0,00	0,00	-
8	980	988	31,65	106,9	0,00	70,90	-	-	0,00	0,00	-
9	1 155	1 162	29,80	106,9	0,00	72,30	-	-	0,00	0,00	-
Sum			38,02								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

Noise sensitive area: AK Sklypas/40 m saugotina aplinka: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (37)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 911	12 912	0,81	106,9	0,00	93,22	-	-	0,00	0,00	-
10	603	618	36,84	106,9	0,00	66,82	-	-	0,00	0,00	-
11	6 990	6 992	6,75	107,0	0,00	87,89	-	-	0,00	0,00	-
12	6 896	6 898	6,91	107,0	0,00	87,77	-	-	0,00	0,00	-
13	8 176	8 178	4,96	107,0	0,00	89,25	-	-	0,00	0,00	-
14	7 921	7 923	5,32	107,0	0,00	88,98	-	-	0,00	0,00	-
15	8 733	8 735	4,22	107,0	0,00	89,82	-	-	0,00	0,00	-
16	8 441	8 443	4,60	107,0	0,00	89,53	-	-	0,00	0,00	-
17	8 013	8 015	5,19	107,0	0,00	89,08	-	-	0,00	0,00	-
18	8 725	8 727	4,23	107,0	0,00	89,82	-	-	0,00	0,00	-
19	8 436	8 438	4,61	107,0	0,00	89,52	-	-	0,00	0,00	-
2	13 235	13 235	0,53	106,9	0,00	93,43	-	-	0,00	0,00	-
20	9 196	9 197	1,18	104,0	0,00	90,27	-	-	0,00	0,00	-
21	8 629	8 630	1,92	104,0	0,00	89,72	-	-	0,00	0,00	-
22	8 133	8 135	2,60	104,0	0,00	89,21	-	-	0,00	0,00	-
23	7 318	7 319	3,82	104,0	0,00	88,29	-	-	0,00	0,00	-
24	17 042	17 042	-4,51	106,0	0,00	95,63	-	-	0,00	0,00	-
25	17 235	17 235	-4,64	106,0	0,00	95,73	-	-	0,00	0,00	-
26	16 863	16 864	-4,39	106,0	0,00	95,54	-	-	0,00	0,00	-
27	16 575	16 576	-4,20	106,0	0,00	95,39	-	-	0,00	0,00	-
28	15 962	15 963	-3,78	106,0	0,00	95,06	-	-	0,00	0,00	-
29	16 347	16 348	-4,04	106,0	0,00	95,27	-	-	0,00	0,00	-
3	5 254	5 256	11,20	106,9	0,00	85,41	-	-	0,00	0,00	-
30	9 052	9 054	1,47	104,0	0,00	90,14	-	-	0,00	0,00	-
31	8 318	8 319	2,49	104,0	0,00	89,40	-	-	0,00	0,00	-
32	8 146	8 148	2,74	104,0	0,00	89,22	-	-	0,00	0,00	-
33	7 466	7 468	3,79	104,0	0,00	88,46	-	-	0,00	0,00	-
34	6 820	6 822	4,89	104,0	0,00	87,68	-	-	0,00	0,00	-
35	6 230	6 232	5,98	104,0	0,00	86,89	-	-	0,00	0,00	-
36	6 371	6 373	5,71	104,0	0,00	87,09	-	-	0,00	0,00	-
37	6 023	6 025	6,40	104,0	0,00	86,60	-	-	0,00	0,00	-
38	6 137	6 140	6,17	104,0	0,00	86,76	-	-	0,00	0,00	-
4	4 978	4 979	11,84	106,9	0,00	84,94	-	-	0,00	0,00	-
5	4 468	4 470	13,11	106,9	0,00	84,01	-	-	0,00	0,00	-
6	3 650	3 653	15,65	106,9	0,00	82,25	-	-	0,00	0,00	-
7	3 184	3 187	17,43	106,9	0,00	81,07	-	-	0,00	0,00	-
8	2 173	2 178	22,28	106,9	0,00	77,76	-	-	0,00	0,00	-
9	1 855	1 860	24,22	106,9	0,00	76,39	-	-	0,00	0,00	-
Sum			37,38								

- Data undefined due to calculation with octave data

Noise sensitive area: AL Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (38)

Wind speed: 10,0 m/s
WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	12 933	12 933	0,80	106,9	0,00	93,23	-	-	0,00	0,00	-
10	633	647	36,34	106,9	0,00	67,22	-	-	0,00	0,00	-
11	7 019	7 021	6,70	107,0	0,00	87,93	-	-	0,00	0,00	-
12	6 924	6 926	6,86	107,0	0,00	87,81	-	-	0,00	0,00	-
13	8 206	8 208	4,92	107,0	0,00	89,29	-	-	0,00	0,00	-
14	7 951	7 953	5,28	107,0	0,00	89,01	-	-	0,00	0,00	-
15	8 763	8 765	4,18	107,0	0,00	89,85	-	-	0,00	0,00	-
16	8 465	8 467	4,57	107,0	0,00	89,55	-	-	0,00	0,00	-
17	8 038	8 040	5,15	107,0	0,00	89,10	-	-	0,00	0,00	-
18	8 752	8 754	4,19	107,0	0,00	89,84	-	-	0,00	0,00	-
19	8 466	8 468	4,57	107,0	0,00	89,56	-	-	0,00	0,00	-
2	13 255	13 256	0,52	106,9	0,00	93,45	-	-	0,00	0,00	-
20	9 225	9 227	1,15	104,0	0,00	90,30	-	-	0,00	0,00	-
21	8 659	8 660	1,88	104,0	0,00	89,75	-	-	0,00	0,00	-
22	8 163	8 164	2,55	104,0	0,00	89,24	-	-	0,00	0,00	-
23	7 348	7 349	3,78	104,0	0,00	88,32	-	-	0,00	0,00	-
24	17 066	17 067	-4,53	106,0	0,00	95,64	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

...continued from previous page

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
25	17 259	17 260	-4,65	106,0	0,00	95,74	-	-	0,00	0,00	-
26	16 888	16 889	-4,41	106,0	0,00	95,55	-	-	0,00	0,00	-
27	16 599	16 600	-4,22	106,0	0,00	95,40	-	-	0,00	0,00	-
28	15 987	15 988	-3,79	106,0	0,00	95,08	-	-	0,00	0,00	-
29	16 371	16 372	-4,06	106,0	0,00	95,28	-	-	0,00	0,00	-
3	5 281	5 282	11,14	106,9	0,00	85,46	-	-	0,00	0,00	-
30	9 079	9 080	1,43	104,0	0,00	90,16	-	-	0,00	0,00	-
31	8 344	8 346	2,45	104,0	0,00	89,43	-	-	0,00	0,00	-
32	8 175	8 177	2,69	104,0	0,00	89,25	-	-	0,00	0,00	-
33	7 494	7 495	3,74	104,0	0,00	88,50	-	-	0,00	0,00	-
34	6 848	6 850	4,84	104,0	0,00	87,71	-	-	0,00	0,00	-
35	6 259	6 261	5,93	104,0	0,00	86,93	-	-	0,00	0,00	-
36	6 398	6 400	5,66	104,0	0,00	87,12	-	-	0,00	0,00	-
37	6 049	6 052	6,34	104,0	0,00	86,64	-	-	0,00	0,00	-
38	6 162	6 164	6,12	104,0	0,00	86,80	-	-	0,00	0,00	-
4	5 003	5 004	11,78	106,9	0,00	84,99	-	-	0,00	0,00	-
5	4 490	4 492	13,06	106,9	0,00	84,05	-	-	0,00	0,00	-
6	3 673	3 675	15,56	106,9	0,00	82,31	-	-	0,00	0,00	-
7	3 206	3 209	17,34	106,9	0,00	81,13	-	-	0,00	0,00	-
8	2 203	2 208	22,11	106,9	0,00	77,88	-	-	0,00	0,00	-
9	1 874	1 879	24,10	106,9	0,00	76,48	-	-	0,00	0,00	-
Sum			36,93								

- Data undefined due to calculation with octave data

Noise sensitive area: AM Sklypas/40 m saugotina aplinka: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (39)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	13 674	13 674	0,16	106,9	0,00	93,72	-	-	0,00	0,00	-
10	1 436	1 441	27,29	106,9	0,00	74,18	-	-	0,00	0,00	-
11	6 404	6 406	7,77	107,0	0,00	87,13	-	-	0,00	0,00	-
12	6 214	6 216	8,12	107,0	0,00	86,87	-	-	0,00	0,00	-
13	7 939	7 940	5,30	107,0	0,00	89,00	-	-	0,00	0,00	-
14	7 790	7 792	5,51	107,0	0,00	88,83	-	-	0,00	0,00	-
15	8 529	8 531	4,49	107,0	0,00	89,62	-	-	0,00	0,00	-
16	9 082	9 083	3,78	107,0	0,00	90,16	-	-	0,00	0,00	-
17	8 596	8 597	4,40	107,0	0,00	89,69	-	-	0,00	0,00	-
18	9 095	9 096	3,76	107,0	0,00	90,18	-	-	0,00	0,00	-
19	8 334	8 336	4,75	107,0	0,00	89,42	-	-	0,00	0,00	-
2	14 021	14 022	-0,12	106,9	0,00	93,94	-	-	0,00	0,00	-
20	9 157	9 158	1,23	104,0	0,00	90,24	-	-	0,00	0,00	-
21	8 639	8 640	1,90	104,0	0,00	89,73	-	-	0,00	0,00	-
22	8 133	8 134	2,60	104,0	0,00	89,21	-	-	0,00	0,00	-
23	7 149	7 151	4,10	104,0	0,00	88,09	-	-	0,00	0,00	-
24	17 632	17 633	-4,89	106,0	0,00	95,93	-	-	0,00	0,00	-
25	17 788	17 789	-4,99	106,0	0,00	96,00	-	-	0,00	0,00	-
26	17 374	17 374	-4,73	106,0	0,00	95,80	-	-	0,00	0,00	-
27	17 120	17 121	-4,56	106,0	0,00	95,67	-	-	0,00	0,00	-
28	16 477	16 478	-4,13	106,0	0,00	95,34	-	-	0,00	0,00	-
29	16 935	16 936	-4,44	106,0	0,00	95,58	-	-	0,00	0,00	-
3	5 757	5 759	10,13	106,9	0,00	86,21	-	-	0,00	0,00	-
30	9 492	9 493	0,90	104,0	0,00	90,55	-	-	0,00	0,00	-
31	8 794	8 795	1,82	104,0	0,00	89,89	-	-	0,00	0,00	-
32	8 325	8 326	2,48	104,0	0,00	89,41	-	-	0,00	0,00	-
33	7 838	7 839	3,20	104,0	0,00	88,89	-	-	0,00	0,00	-
34	7 059	7 061	4,47	104,0	0,00	87,98	-	-	0,00	0,00	-
35	6 484	6 486	5,50	104,0	0,00	87,24	-	-	0,00	0,00	-
36	6 751	6 753	5,01	104,0	0,00	87,59	-	-	0,00	0,00	-
37	6 482	6 484	5,50	104,0	0,00	87,24	-	-	0,00	0,00	-
38	6 754	6 756	5,00	104,0	0,00	87,59	-	-	0,00	0,00	-
4	5 604	5 605	10,44	106,9	0,00	85,97	-	-	0,00	0,00	-
5	5 262	5 264	11,18	106,9	0,00	85,43	-	-	0,00	0,00	-
6	4 454	4 456	13,15	106,9	0,00	83,98	-	-	0,00	0,00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Suminis: Planuojamos+ Foninės VE Noise calculation model: ISO 9613-2:2024 General 10,0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
7	4 022	4 024	14,38	106,9	0,00	83,09	-	-	0,00	0,00	-
8	2 257	2 260	21,81	106,9	0,00	78,08	-	-	0,00	0,00	-
9	2 895	2 897	18,66	106,9	0,00	80,24	-	-	0,00	0,00	-
Sum			29,59								

- Data undefined due to calculation with octave data

Noise sensitive area: AN Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (40)

Wind speed: 10,0 m/s

WTG

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	13 696	13 697	0,14	106,9	0,00	93,73	-	-	0,00	0,00	-
10	1 461	1 466	27,08	106,9	0,00	74,32	-	-	0,00	0,00	-
11	6 406	6 409	7,76	107,0	0,00	87,14	-	-	0,00	0,00	-
12	6 215	6 217	8,11	107,0	0,00	86,87	-	-	0,00	0,00	-
13	7 948	7 950	5,28	107,0	0,00	89,01	-	-	0,00	0,00	-
14	7 801	7 803	5,49	107,0	0,00	88,85	-	-	0,00	0,00	-
15	8 539	8 540	4,47	107,0	0,00	89,63	-	-	0,00	0,00	-
16	9 103	9 104	3,75	107,0	0,00	90,19	-	-	0,00	0,00	-
17	8 617	8 618	4,37	107,0	0,00	89,71	-	-	0,00	0,00	-
18	9 113	9 115	3,74	107,0	0,00	90,19	-	-	0,00	0,00	-
19	8 346	8 347	4,73	107,0	0,00	89,43	-	-	0,00	0,00	-
2	14 044	14 045	-0,14	106,9	0,00	93,95	-	-	0,00	0,00	-
20	9 170	9 171	1,22	104,0	0,00	90,25	-	-	0,00	0,00	-
21	8 652	8 653	1,88	104,0	0,00	89,74	-	-	0,00	0,00	-
22	8 146	8 147	2,58	104,0	0,00	89,22	-	-	0,00	0,00	-
23	7 160	7 162	4,08	104,0	0,00	88,10	-	-	0,00	0,00	-
24	17 653	17 653	-4,91	106,0	0,00	95,94	-	-	0,00	0,00	-
25	17 808	17 809	-5,01	106,0	0,00	96,01	-	-	0,00	0,00	-
26	17 393	17 394	-4,74	106,0	0,00	95,81	-	-	0,00	0,00	-
27	17 140	17 141	-4,58	106,0	0,00	95,68	-	-	0,00	0,00	-
28	16 497	16 497	-4,15	106,0	0,00	95,35	-	-	0,00	0,00	-
29	16 956	16 957	-4,45	106,0	0,00	95,59	-	-	0,00	0,00	-
3	5 778	5 779	10,08	106,9	0,00	86,24	-	-	0,00	0,00	-
30	9 511	9 513	0,88	104,0	0,00	90,57	-	-	0,00	0,00	-
31	8 814	8 815	1,79	104,0	0,00	89,90	-	-	0,00	0,00	-
32	8 340	8 342	2,45	104,0	0,00	89,43	-	-	0,00	0,00	-
33	7 856	7 858	3,17	104,0	0,00	88,91	-	-	0,00	0,00	-
34	7 076	7 078	4,44	104,0	0,00	88,00	-	-	0,00	0,00	-
35	6 501	6 503	5,47	104,0	0,00	87,26	-	-	0,00	0,00	-
36	6 770	6 772	4,98	104,0	0,00	87,61	-	-	0,00	0,00	-
37	6 502	6 504	5,47	104,0	0,00	87,26	-	-	0,00	0,00	-
38	6 775	6 777	4,97	104,0	0,00	87,62	-	-	0,00	0,00	-
4	5 625	5 627	10,40	106,9	0,00	86,01	-	-	0,00	0,00	-
5	5 286	5 287	11,13	106,9	0,00	85,46	-	-	0,00	0,00	-
6	4 478	4 480	13,09	106,9	0,00	84,03	-	-	0,00	0,00	-
7	4 046	4 048	14,30	106,9	0,00	83,14	-	-	0,00	0,00	-
8	2 275	2 279	21,71	106,9	0,00	78,15	-	-	0,00	0,00	-
9	2 920	2 922	18,55	106,9	0,00	80,31	-	-	0,00	0,00	-
Sum			29,44								

- Data undefined due to calculation with octave data

DECIBEL - Assumptions for noise calculation

Calculation: Suminis: Planuojamos+ Foninės VE

Noise calculation model:
ISO 9613-2:2024 General
Wind speed (at 10 m height):
10,0 m/s
Ground attenuation:
General, Ground factor: 0,7
Meteorological coefficient, C0:
Selected option: Fixed value: 0,0 dB
Type of demand in calculation:
1: WTG noise is compared to demand (DK, DE, SE, NL etc.)
Noise values in calculation:
All noise values are mean values (Lwa) (Normal)
Pure tones:
Fixed penalty added to source noise of WTGs with pure tones
Model: 5,0 dB(A)
Height above ground level, when no value in NSA object:
1,5 m; Don't allow override of model height with height from NSA object
Uncertainty margin:
0,0 dB; Uncertainty margin in NSA has priority
Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:
0,0 dB(A)
Octave data required
Frequency dependent air absorption

63	125	250	500	1 000	2 000	4 000	8 000
[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]
0,1	0,4	1,0	1,9	3,7	9,7	32,8	117,0

The air absorption is for a temperature of 10,0 degrees C and 70,0 % humidity.

All coordinates are in
Lithuanian TM LKS94-LKS94 (LT)

WTG: VESTAS V172-7.2 7200 172.0 !O!
Noise: Level 0 - Measured - PO7200

Source	Source/Date	Creator	Edited
Manufacturer	2022-07-08	EMD	2022-10-06 14:58

Based on Document no.: 0127-1584 V01.

						Octave data							
Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones		63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
From other hub height	135,0	10,0	106,9	No	Generic data	88,5	95,5	98,9	101,5	101,3	98,4	93,6	84,1

WTG: GE WIND ENERGY 6.0-164 6000 164.0 !O!
Noise: 6.0-164 NO 107dB

Source	Source/Date	Creator	Edited
Noise_Emission-NO_Cypress_6.0-164-50Hz_DE_r01	2020-05-05	EMD	2022-03-09 15:11

					Octave data							
Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones	63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
Extrapolated	167,0	10,0	107,0	No	88,1	93,6	98,1	100,7	102,3	100,1	92,6	76,8

WTG: GE WIND ENERGY 5.5-158 Thrust 665 5500 158.0 !O!
Noise: 5.5-158 NRO 104dB

Source	Source/Date	Creator	Edited
Noise_Emission-NRO_5.3-158-50Hz_EN_r01	2018-03-12	EMD	2019-01-21 12:38

					Octave data							
Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones	63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
Interpolated	151,0	10,0	104,0	No	85,3	91,3	96,1	98,2	98,9	96,2	89,3	74,5

DECIBEL - Assumptions for noise calculation

Calculation: Suminis: Planuojamos+ Foninės VE

WTG: Siemens Gamesa SG 6.6-170 6600 170.0 !O!
Noise: (AM 0, 6.6MW) - 106dB(A)

Source	Source/Date	Creator	Edited
SGRE	2021-12-17	EMD	2021-12-17 12:07

Siemens Gamesa Renewable Energy and its affiliates reserve the right to change the above specifications without prior notice.

					Octave data							
Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones	63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
Interpolated	165,0	10,0	106,0	No	86,5	93,4	96,1	97,9	101,8	99,9	93,3	83,0

WTG: VESTAS V162 5600 162.0 !O!
Noise: Level 0 - Estimated - Mode 0 - 01-2019

Source	Source/Date	Creator	Edited
Manufacturer	2019-01-23	EMD	2019-07-23 13:06

Blades with serrated trailing edge.
Document no. 0081-5298_01.

					Octave data							
Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones	63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
From Windcat	166,0	10,0	104,0	No	84,8	92,3	97,0	99,0	98,1	94,5	88,1	78,9

Noise sensitive area: A Sklypas/40 m saugotina aplinka: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: B Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (2)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: C Sklypas/40 m saugotina aplinka: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (3)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: D Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (4)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: E Sklypas/40 m saugotina aplinka: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (5)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Suminis: Planuojamos+ Foninės VE

Noise sensitive area: F Gyvenamasis pastatas: Barsukinės k. 4, Þeimiø sen., Jonavos r. sav. (6)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: G Sklypas/40 m saugotina aplinka: Neturi adreso (7)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: H Gyvenamasis pastatas: Neturi adreso (8)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: I Sklypas/40 m saugotina aplinka: Neturi adreso (9)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: J Gyvenamasis pastatas: Neturi adreso (10)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: K Sklypas/40 m saugotina aplinka: Neturi adreso (11)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: L Gyvenamasis pastatas: Neturi adreso (12)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: M Sklypas/40 m saugotina aplinka: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: N Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (14)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Suminis: Planuojamos+ Foninės VE

Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: O Sklypas/40 m saugotina aplinka: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav.

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: P Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (16)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: Q Sklypas/40 m saugotina aplinka: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (17)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: R Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (18)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: S Sklypas/40 m saugotina aplinka: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (19)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: T Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (20)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: U Sklypas/40 m saugotina aplinka: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (21)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: V Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (22)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Suminis: Planuojamos+ Foninės VE

Noise sensitive area: W Sklypas/40 m saugotina aplinka: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (23)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: X Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (24)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: Y Sklypas/40 m saugotina aplinka: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (25)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: Z Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (26)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AA Sklypas/40 m saugotina aplinka: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (27)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AB Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (28)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AC Sklypas/40 m saugotina aplinka: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (29)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AD Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (30)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AE Sklypas/40 m saugotina aplinka: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (31)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Suminis: Planuojamos+ Foninės VE

Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AF Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (32)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AG Sklypas/40 m saugotina aplinka: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (33)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AH Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (34)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AI Sklypas/40 m saugotina aplinka: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (35)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AJ Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (36)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AK Sklypas/40 m saugotina aplinka: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (37)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AL Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (38)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

Noise sensitive area: AM Sklypas/40 m saugotina aplinka: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (39)

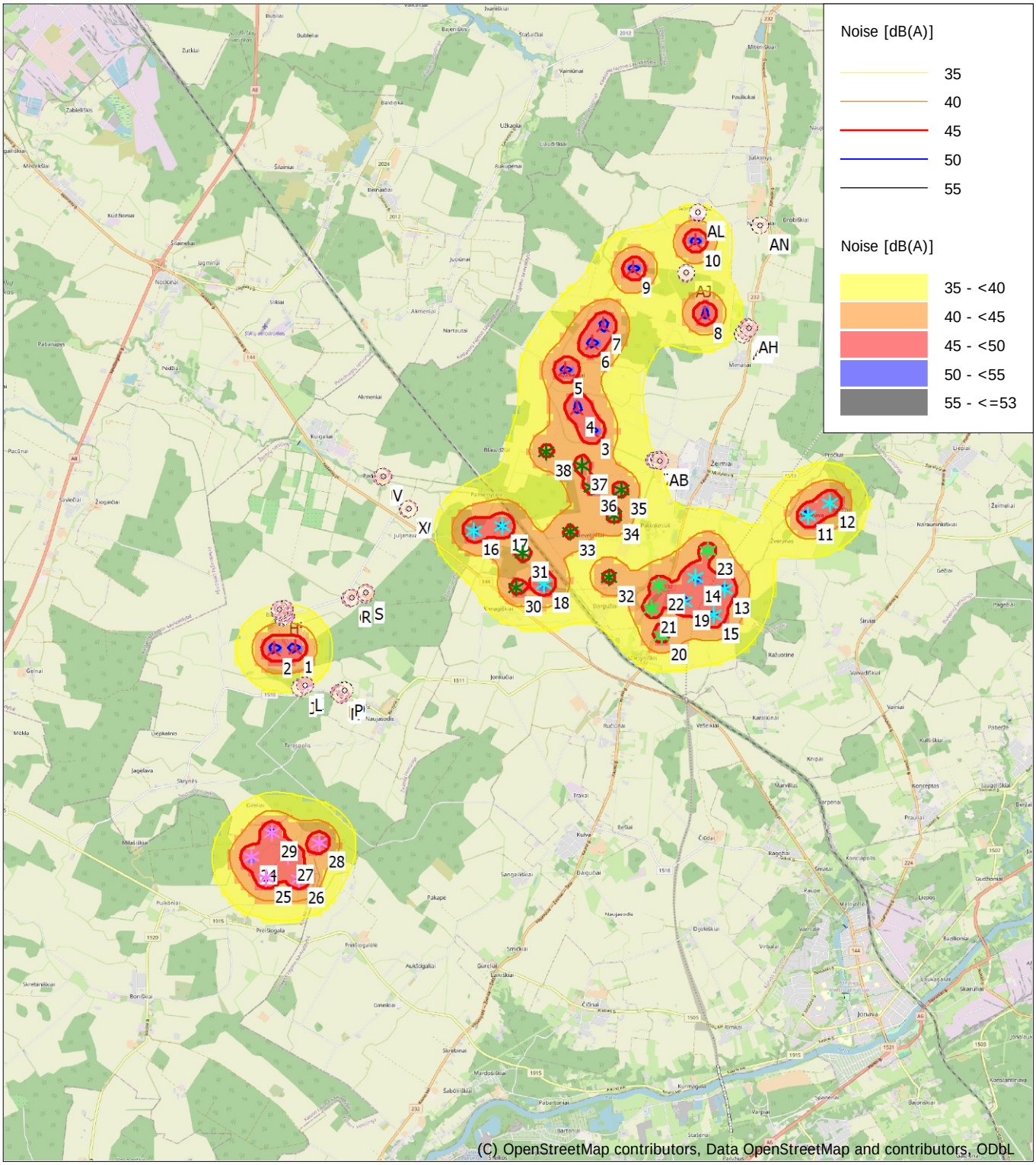
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Suminis: Planuojamos+ Foninės VE
Noise sensitive area: AN Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (40)
Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45,0 dB(A)
No distance demand

DECIBEL - Map 10,0 m/s

Calculation: Suminis: Planuojamos+ Foninės VE



0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:125 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 510 424 North: 6 114 099

New WTG Existing WTG Noise sensitive area

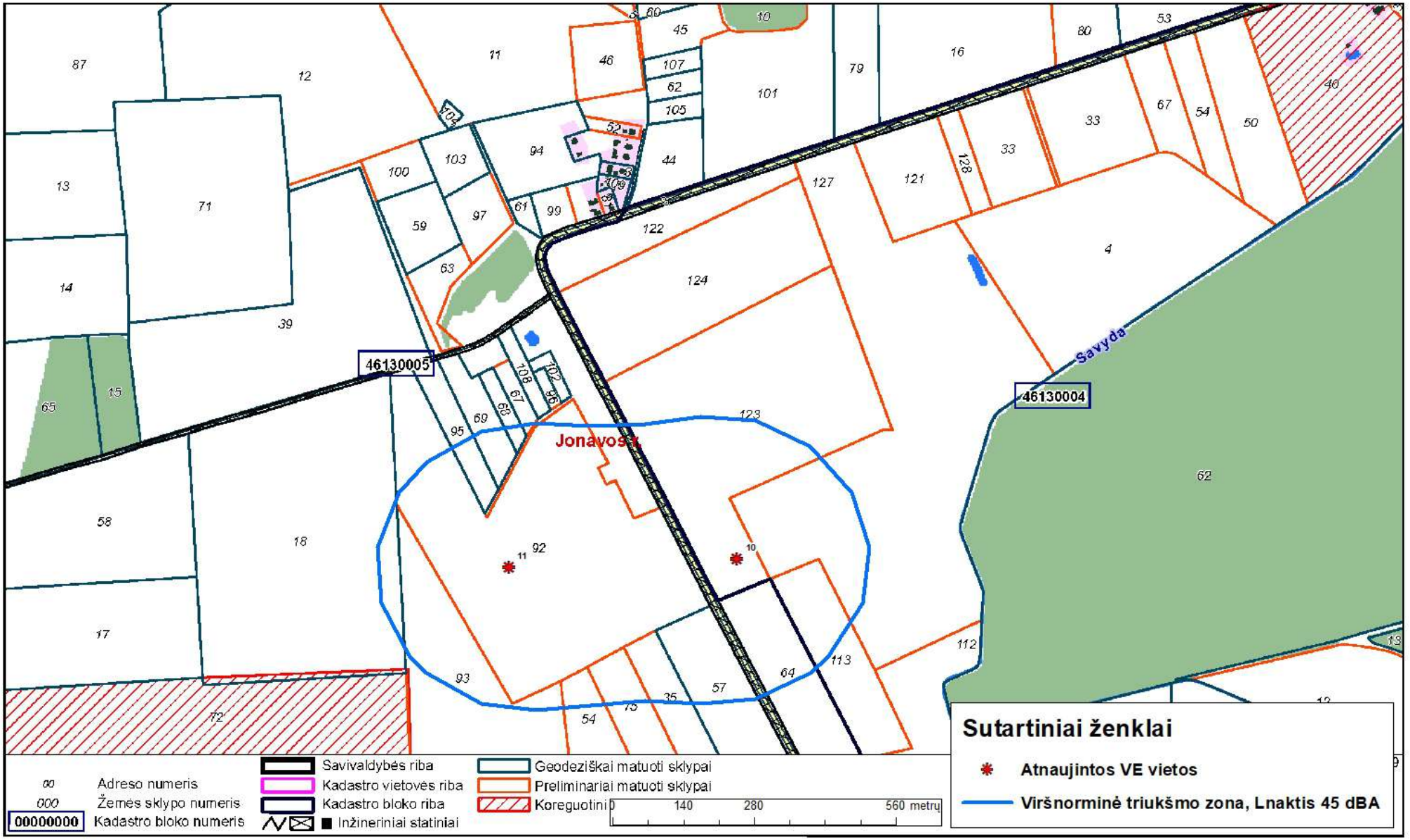
Noise calculation model: ISO 9613-2:2024 General. Wind speed: 10,0 m/s

Height above sea level from active line object

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Studentų g. 39, 08106 Vilnius tel. +370 5 268 8262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

KADASTRO ŽEMĖLAPIO IŠTRAUKA

Mastelis 1:10000



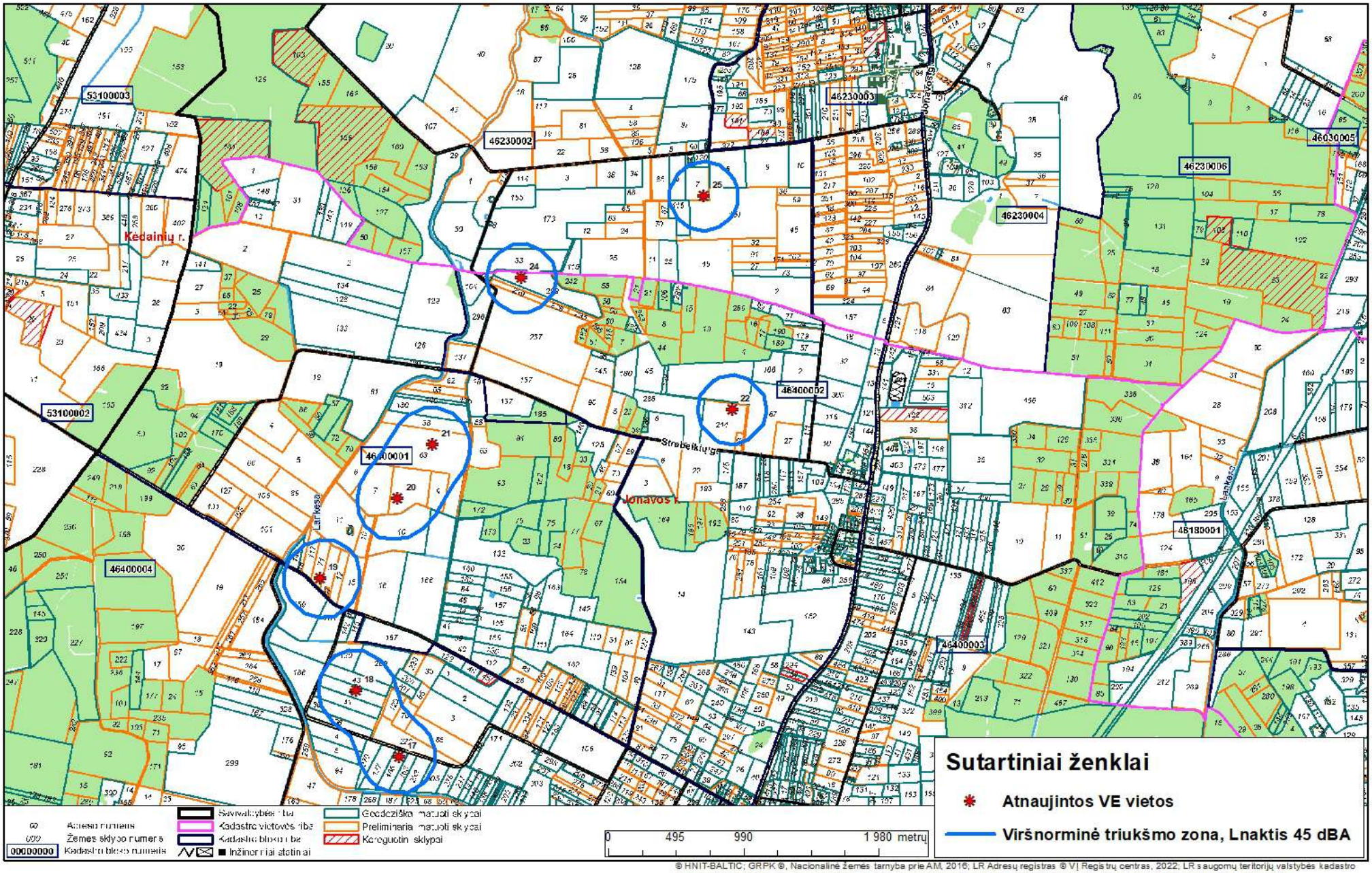
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REGISTRŲ CENTRAS

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 268 8262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

KADASTRO ŽEMĖLAPIO IŠTRAUKA

Mastelis 1:25000



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1.5 Priedėlis. Šešėliai

SHADOW - Main Result

Calculation: Planuojamos VE

Assumptions for shadow calculations

Maximum distance for influence
Calculate only when more than 20 % of sun is covered by the blade
Please look in WTG table

Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

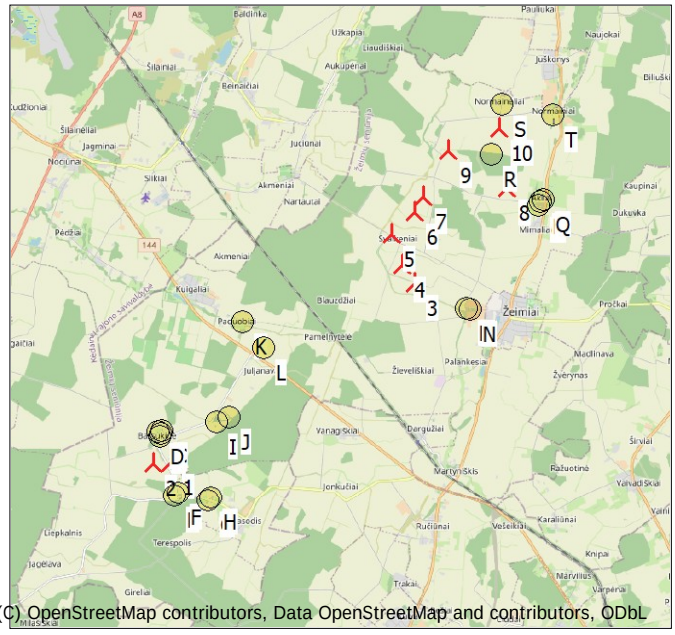
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

Monthly aggregation of real case reduction
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)
Receptor grid resolution: 1,0 m
Topographic shadow included in calculation

All coordinates are in
Lithuanian TM LKS94-LKS94 (LT)



Scale 1:200 000

New WTG Shadow receptor

WTGs

	Y	X	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
1	505 066	6 112 165	60,0	.... 8000 200.0 !O! hub: 180,0 m (...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
2	504 615	6 112 148	60,0	.... 8000 200.0 !O! hub: 180,0 m (...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
3	511 539	6 116 908	60,0	.... 8000 200.0 !O! hub: 180,0 m (...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
4	511 222	6 117 399	60,0	.... 8000 200.0 !O! hub: 180,0 m (...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
5	510 959	6 118 219	60,0	.... 8000 200.0 !O! hub: 180,0 m (...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
6	511 530	6 118 807	60,0	.... 8000 200.0 !O! hub: 180,0 m (...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
7	511 785	6 119 202	60,0	.... 8000 200.0 !O! hub: 180,0 m (...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
8	513 980	6 119 458	63,3	.... 8000 200.0 !O! hub: 180,0 m (...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
9	512 435	6 120 424	60,0	.... 8000 200.0 !O! hub: 180,0 m (...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
10	513 775	6 121 028	60,0	.... 8000 200.0 !O! hub: 180,0 m (...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-

Shadow receptor-Input

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
A	Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)	504 817	6 112 855	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
B	Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (2)	504 839	6 112 938	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
C	Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)	504 857	6 113 018	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
D	Gyvenamasis pastatas: Neturi adreso (4)	504 749	6 113 003	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
E	Gyvenamasis pastatas: Neturi adreso (5)	505 193	6 111 302	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
F	Gyvenamasis pastatas: Neturi adreso (6)	505 303	6 111 351	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G	Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)	506 074	6 111 169	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
H	Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)	506 175	6 111 241	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
I	Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)	506 325	6 113 257	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
J	Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (10)	506 632	6 113 377	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
K	Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)	506 986	6 115 906	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
L	Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)	507 555	6 115 201	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
M	Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)	512 944	6 116 258	64,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
N	Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)	513 024	6 116 250	66,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
O	Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)	514 833	6 118 996	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
P	Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)	514 878	6 119 076	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
Q	Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)	514 963	6 119 150	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R	Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)	513 588	6 120 356	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
S	Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)	513 846	6 121 657	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
T	Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)	515 192	6 121 383	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

SHADOW - Main Result

Calculation: Planuojamos VE

Calculation Results

Shadow receptor

No.	Name	Shadow, expected values Shadow hours per year [h/year]
A	Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)	23:07
B	Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (2)	17:58
C	Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)	14:20
D	Gyvenamasis pastatas: Neturi adreso (4)	14:54
E	Gyvenamasis pastatas: Neturi adreso (5)	0:00
F	Gyvenamasis pastatas: Neturi adreso (6)	0:00
G	Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)	7:13
H	Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)	9:13
I	Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)	3:38
J	Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (10)	2:29
K	Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)	0:00
L	Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)	0:00
M	Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)	15:43
N	Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)	13:50
O	Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)	16:52
P	Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)	22:42
Q	Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)	17:52
R	Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)	15:21
S	Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)	16:46
T	Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)	4:18

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Expected [h/year]
1	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)	17:34
2	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)	29:12
3	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (17)	10:02
4	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (18)	7:28
5	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (19)	0:00
6	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (20)	0:00
7	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (21)	1:14
8	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)	44:59
9	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)	9:12
10	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (25)	18:38

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: A - Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March	April	May	June
1	08:50		10:37 (1)	08:17		10:44 (1)	07:17	06:58	05:46	04:53
	16:05	115	14:02 (2)	16:59	122	14:13 (2)	17:58	20:00	20:58	21:52
2	08:50		10:36 (1)	08:16		10:45 (1)	07:14	06:56	05:44	04:52
	16:06	117	14:02 (2)	17:01	120	14:13 (2)	18:00	20:02	21:00	21:53
3	08:50		10:37 (1)	08:14		10:45 (1)	07:12	06:53	05:41	04:51
	16:07	117	14:03 (2)	17:03	117	14:11 (2)	18:02	20:04	21:02	21:54
4	08:50		10:37 (1)	08:12		10:45 (1)	07:09	06:51	05:39	04:50
	16:09	119	14:04 (2)	17:05	115	14:11 (2)	18:04	20:06	21:04	21:56
5	08:49		10:37 (1)	08:10		10:46 (1)	07:07	06:48	05:37	04:49
	16:10	120	14:05 (2)	17:07	112	14:10 (2)	18:06	20:08	21:06	21:57
6	08:49		10:37 (1)	08:08		10:47 (1)	07:04	06:46	05:35	04:48
	16:11	120	14:05 (2)	17:09	109	14:10 (2)	18:08	20:09	21:08	21:58
7	08:48		10:37 (1)	08:06		10:48 (1)	07:02	06:43	05:33	04:47
	16:13	122	14:06 (2)	17:12	104	14:09 (2)	18:10	20:11	21:10	21:59
8	08:48		10:37 (1)	08:04		10:49 (1)	07:00	06:41	05:31	04:47
	16:14	122	14:06 (2)	17:14	101	14:08 (2)	18:12	20:13	21:12	22:00
9	08:47		10:38 (1)	08:02		10:50 (1)	06:57	06:38	05:29	04:46
	16:16	123	14:07 (2)	17:16	96	14:07 (2)	18:14	20:15	21:14	22:01
10	08:46		10:38 (1)	08:00		10:51 (1)	06:55	06:36	05:27	04:46
	16:17	124	14:08 (2)	17:18	89	14:04 (2)	18:16	20:17	21:16	22:02
11	08:45		10:39 (1)	07:58		10:52 (1)	06:52	06:33	05:25	04:45
	16:19	125	14:09 (2)	17:20	84	14:03 (2)	18:18	20:19	21:17	22:03
12	08:45		10:39 (1)	07:56		10:54 (1)	06:49	06:31	05:23	04:45
	16:20	125	14:09 (2)	17:22	75	14:01 (2)	18:20	20:21	21:19	22:04
13	08:44		10:38 (1)	07:54		10:56 (1)	06:47	06:28	05:21	04:44
	16:22	126	14:09 (2)	17:24	66	13:58 (2)	18:22	20:23	21:21	22:04
14	08:43		10:39 (1)	07:51		10:58 (1)	06:44	06:26	05:19	04:44
	16:24	127	14:10 (2)	17:26	52	13:54 (2)	18:24	20:25	21:23	22:05
15	08:42		10:39 (1)	07:49		11:01 (1)	06:42	06:23	05:18	04:44
	16:26	127	14:10 (2)	17:29	28	11:29 (1)	18:26	20:27	21:25	22:06
16	08:41		10:39 (1)	07:47		11:05 (1)	06:39	06:21	05:16	04:43
	16:27	128	14:11 (2)	17:31	20	11:25 (1)	18:28	20:29	21:27	22:06
17	08:40		10:39 (1)	07:45		11:14 (1)	06:37	06:18	05:14	04:43
	16:29	129	14:11 (2)	17:33	1	11:15 (1)	18:30	20:31	21:28	22:07
18	08:38		10:40 (1)	07:43			06:34	06:16	05:12	04:43
	16:31	129	14:12 (2)	17:35			18:32	20:33	21:30	22:07
19	08:37		10:39 (1)	07:40			06:32	06:13	05:11	04:43
	16:33	128	14:11 (2)	17:37			18:34	20:35	21:32	22:08
20	08:36		10:40 (1)	07:38			06:29	06:11	05:09	04:43
	16:35	129	14:12 (2)	17:39			18:36	20:37	21:34	22:08
21	08:35		10:40 (1)	07:36			06:27	06:09	05:07	04:43
	16:37	129	14:12 (2)	17:41			18:38	20:39	21:35	22:08
22	08:33		10:41 (1)	07:33			06:24	06:06	05:06	04:44
	16:39	129	14:13 (2)	17:43			18:40	20:41	21:37	22:08
23	08:32		10:40 (1)	07:31			06:21	06:04	05:04	04:44
	16:41	130	14:13 (2)	17:45			18:42	20:43	21:39	22:09
24	08:30		10:40 (1)	07:29			06:19	06:02	05:03	04:44
	16:43	130	14:13 (2)	17:47			18:44	20:45	21:40	22:09
25	08:29		10:41 (1)	07:26			06:16	05:59	05:01	04:45
	16:45	130	14:14 (2)	17:50			18:46	20:47	21:42	22:09
26	08:27		10:41 (1)	07:24			06:14	05:57	05:00	04:45
	16:47	128	14:13 (2)	17:52			18:48	20:49	21:43	22:09
27	08:26		10:42 (1)	07:22			06:11	05:55	04:59	04:45
	16:49	127	14:13 (2)	17:54			18:50	20:51	21:45	22:08
28	08:24		10:42 (1)	07:19			06:09	05:52	04:57	04:46
	16:51	127	14:13 (2)	17:56			18:52	20:53	21:46	22:08
29	08:23		10:42 (1)				07:06	05:50	04:56	04:47
	16:53	126	14:13 (2)				19:54	20:55	21:48	22:08
30	08:21		10:42 (1)				07:03	05:48	04:55	04:47
	16:55	126	14:13 (2)				19:56	20:57	21:49	22:08
31	08:19		10:44 (1)				07:01		04:54	
	16:57	122	14:13 (2)				19:58		21:50	
Potential sun hours	243			270			366	423	500	519
Total, worst case		3876			1411					
Sun reduction		0,18			0,25					
Oper. time red.		0,99			0,99					
Wind dir. red.		0,64			0,64					
Total reduction		0,11			0,15					
Total, real		438			217					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: A - Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October			November			December		
1	04:48	05:30	06:28	07:25			07:26		10:20 (1)	08:25		10:21 (1)
	22:07	21:29	20:19	19:02			16:48	91	13:34 (2)	16:01	125	13:51 (2)
2	04:49	05:32	06:30	07:27			07:29		10:20 (1)	08:26		10:21 (1)
	22:07	21:28	20:17	19:00			16:46	97	13:37 (2)	16:00	123	13:50 (2)
3	04:50	05:34	06:32	07:29			07:31		10:19 (1)	08:28		10:21 (1)
	22:07	21:26	20:14	18:57			16:44	101	13:38 (2)	15:59	124	13:51 (2)
4	04:50	05:36	06:34	07:31			07:33		10:18 (1)	08:29		10:22 (1)
	22:06	21:24	20:12	18:55			16:42	105	13:39 (2)	15:59	122	13:51 (2)
5	04:51	05:38	06:36	07:33			07:35		10:17 (1)	08:31		10:22 (1)
	22:05	21:22	20:09	18:52			16:40	108	13:39 (2)	15:58	122	13:51 (2)
6	04:52	05:40	06:38	07:34			07:37		10:17 (1)	08:32		10:23 (1)
	22:05	21:20	20:07	18:50			16:38	111	13:41 (2)	15:57	120	13:51 (2)
7	04:53	05:41	06:40	07:36			07:39		10:16 (1)	08:34		10:25 (1)
	22:04	21:18	20:04	18:47			16:36	115	13:42 (2)	15:57	119	13:52 (2)
8	04:54	05:43	06:41	07:38			07:41		10:15 (1)	08:35		10:25 (1)
	22:03	21:15	20:02	18:45			16:34	117	13:42 (2)	15:56	119	13:52 (2)
9	04:56	05:45	06:43	07:40			07:43		10:15 (1)	08:36		10:25 (1)
	22:02	21:13	19:59	18:42			16:32	120	13:43 (2)	15:56	118	13:52 (2)
10	04:57	05:47	06:45	07:42			07:45		10:15 (1)	08:38		10:26 (1)
	22:01	21:11	19:57	18:40			16:31	122	13:44 (2)	15:55	118	13:53 (2)
11	04:58	05:49	06:47	07:44			07:47		10:15 (1)	08:39		10:27 (1)
	22:01	21:09	19:54	18:37			16:29	122	13:44 (2)	15:55	116	13:53 (2)
12	04:59	05:51	06:49	07:46			07:49		10:14 (1)	08:40		10:27 (1)
	22:00	21:07	19:51	18:35			16:27	125	13:45 (2)	15:55	116	13:53 (2)
13	05:00	05:53	06:51	07:48			07:51		10:14 (1)	08:41		10:27 (1)
	21:58	21:05	19:49	18:32			16:25	126	13:45 (2)	15:55	116	13:53 (2)
14	05:02	05:54	06:53	07:50			07:53		10:15 (1)	08:42		10:28 (1)
	21:57	21:02	19:46	18:30			16:23	127	13:46 (2)	15:55	115	13:53 (2)
15	05:03	05:56	06:55	07:52			07:55		10:15 (1)	08:43		10:29 (1)
	21:56	21:00	19:44	18:27			16:22	127	13:46 (2)	15:55	113	13:53 (2)
16	05:04	05:58	06:56	07:54			07:57		10:14 (1)	08:44		10:29 (1)
	21:55	20:58	19:41	18:25			16:20	128	13:46 (2)	15:55	114	13:54 (2)
17	05:06	06:00	06:58	07:56			07:59		10:14 (1)	08:45		10:30 (1)
	21:54	20:56	19:39	18:23			16:18	130	13:47 (2)	15:55	113	13:54 (2)
18	05:07	06:02	07:00	07:58			08:01		10:14 (1)	08:46		10:31 (1)
	21:52	20:53	19:36	18:20			16:17	130	13:47 (2)	15:55	112	13:55 (2)
19	05:09	06:04	07:02	08:00			08:03		10:15 (1)	08:47		10:32 (1)
	21:51	20:51	19:33	18:18			16:15	130	13:48 (2)	15:55	113	13:56 (2)
20	05:10	06:06	07:04	08:02			08:05		10:16 (1)	08:47		10:31 (1)
	21:50	20:49	19:31	18:15			16:14	129	13:48 (2)	15:56	113	13:55 (2)
21	05:12	06:08	07:06	08:04			08:07		10:16 (1)	08:48		10:32 (1)
	21:48	20:46	19:28	18:13			16:12	129	13:48 (2)	15:56	113	13:56 (2)
22	05:14	06:09	07:08	08:06			08:09		10:16 (1)	08:48		10:32 (1)
	21:47	20:44	19:26	18:11			16:11	129	13:48 (2)	15:56	113	13:56 (2)
23	05:15	06:11	07:10	08:08			08:11		10:16 (1)	08:49		10:33 (1)
	21:45	20:41	19:23	18:08			16:10	129	13:49 (2)	15:57	113	13:57 (2)
24	05:17	06:13	07:11	08:10			08:12		10:17 (1)	08:49		10:33 (1)
	21:44	20:39	19:20	18:06			16:08	129	13:49 (2)	15:58	113	13:57 (2)
25	05:18	06:15	07:13	07:12		10:39 (1)	08:14		10:17 (1)	08:50		10:34 (1)
	21:42	20:37	19:18	17:04	11	10:50 (1)	16:07	129	13:49 (2)	15:58	113	13:58 (2)
26	05:20	06:17	07:15	07:14		10:33 (1)	08:16		10:17 (1)	08:50		10:35 (1)
	21:40	20:34	19:15	17:02	23	10:56 (1)	16:06	128	13:49 (2)	15:59	113	13:59 (2)
27	05:22	06:19	07:17	07:16		10:30 (1)	08:18		10:18 (1)	08:50		10:35 (1)
	21:39	20:32	19:13	16:59	36	13:18 (2)	16:05	127	13:49 (2)	16:00	114	14:00 (2)
28	05:23	06:21	07:19	07:18		10:27 (1)	08:20		10:19 (1)	08:50		10:35 (1)
	21:37	20:29	19:10	16:57	56	13:24 (2)	16:04	126	13:50 (2)	16:01	115	14:00 (2)
29	05:25	06:23	07:21	07:20		10:25 (1)	08:21		10:19 (1)	08:50		10:36 (1)
	21:35	20:27	19:08	16:55	69	13:29 (2)	16:03	126	13:50 (2)	16:01	114	14:01 (2)
30	05:27	06:25	07:23	07:22		10:23 (1)	08:23		10:20 (1)	08:50		10:35 (1)
	21:33	20:24	19:05	16:53	77	13:31 (2)	16:02	125	13:50 (2)	16:02	115	14:00 (2)
31	05:29	06:26		07:24		10:22 (1)				08:50		10:36 (1)
	21:31	20:22		16:51	84	13:33 (2)				16:03	115	14:01 (2)
Potential sun hours	520	464	383	326			253			225		
Total, worst case					356			3638			3602	
Sun reduction					0,31			0,16			0,13	
Oper. time red.					0,99			0,99			0,99	
Wind dir. red.					0,63			0,64			0,64	
Total reduction					0,19			0,10			0,08	
Total, real					68			359			305	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: B - Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January		February		March	April	May	June	July	August	September	October	November		December		
1	08:50		08:17		07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26		08:25		
	16:05	116	16:59	95	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	9	16:01	118	13:49 (2)
2	08:50		08:16		07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:29		08:26		10:34 (1)
	16:06	116	17:01	90	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46	20	16:00	119	13:49 (2)
3	08:50		08:14		07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31		08:28		10:35 (1)
	16:07	116	17:03	86	18:02	20:04	21:02	21:54	22:07	21:26	20:14	18:57	16:44	44	15:59	118	13:49 (2)
4	08:50		08:12		07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33		08:29		10:36 (1)
	16:09	116	17:05	79	18:04	20:06	21:04	21:56	22:06	21:24	20:12	18:55	16:42	57	15:59	118	13:50 (2)
5	08:49		08:10		07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:33	07:35		08:31		10:36 (1)
	16:10	116	17:07	73	18:06	20:08	21:06	21:57	22:05	21:22	20:09	18:52	16:40	66	15:58	117	13:49 (2)
6	08:49		08:08		07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37		08:32		10:37 (1)
	16:11	116	17:09	66	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	74	15:57	116	13:50 (2)
7	08:48		08:06		07:02	06:43	05:33	04:47	04:53	05:41	06:40	07:36	07:39		08:34		10:38 (1)
	16:13	117	17:12	56	18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	81	15:57	116	13:51 (2)
8	08:48		08:04		07:00	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41		08:35		10:38 (1)
	16:14	118	17:14	42	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	86	15:56	116	13:51 (2)
9	08:47		08:02		06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43		08:36		10:38 (1)
	16:16	118	17:16	19	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	91	15:56	116	13:51 (2)
10	08:46		08:00		06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45		08:38		10:39 (1)
	16:17	118	17:18	3	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	93	15:55	116	13:52 (2)
11	08:45		07:58		06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47		08:39		10:39 (1)
	16:19	118	17:20		18:18	20:19	21:17	22:03	22:01	21:09	19:54	18:37	16:29	97	15:55	116	13:52 (2)
12	08:45		07:56		06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49		08:40		10:40 (1)
	16:20	119	17:22		18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	101	15:55	114	13:52 (2)
13	08:44		07:54		06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51		08:41		10:40 (1)
	16:22	119	17:24		18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	104	15:55	114	13:52 (2)
14	08:43		07:51		06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53		08:42		10:40 (1)
	16:24	119	17:26		18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	106	15:55	114	13:52 (2)
15	08:42		07:49		06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55		08:43		10:41 (1)
	16:26	119	17:29		18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	108	15:55	114	13:53 (2)
16	08:41		07:47		06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57		08:44		10:42 (1)
	16:27	119	17:31		18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	110	15:55	112	13:53 (2)
17	08:40		07:45		06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59		08:45		10:42 (1)
	16:29	118	17:33		18:30	20:31	21:28	22:07	21:54	20:56	19:39	18:23	16:18	112	15:55	114	13:54 (2)
18	08:38		07:43		06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01		08:46		10:43 (1)
	16:31	118	17:35		18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	114	15:55	113	13:54 (2)
19	08:37		07:40		06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03		08:47		10:44 (1)
	16:33	118	17:37		18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	114	15:55	112	13:55 (2)
20	08:36		07:38		06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05		08:47		10:44 (1)
	16:35	117	17:39		18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15	16:14	115	15:56	112	13:55 (2)
21	08:35		07:36		06:27	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07		08:48		10:44 (1)
	16:37	116	17:41		18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	116	15:56	113	13:56 (2)
22	08:33		07:33		06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09		08:48		10:44 (1)
	16:39	115	17:43		18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	117	15:56	113	13:56 (2)
23	08:32		07:31		06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:11		08:49		10:45 (1)
	16:41	114	17:45		18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:10	117	15:57	113	13:57 (2)
24	08:30		07:29		06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12		08:49		10:46 (1)
	16:43	114	17:47		18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	118	15:58	112	13:57 (2)
25	08:29		07:26		06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14		08:50		10:46 (1)
	16:45	112	17:50		18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	118	15:58	112	13:57 (2)
26	08:27		07:24		06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16		08:50		10:47 (1)
	16:47	110	17:52		18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:02	16:06	119	15:58	114	13:59 (2)
27	08:26		07:22		06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18		08:50		10:47 (1)
	16:49	109	17:54		18:50	20:51	21:45	22:08	21:39	20:32	19:13	16:59	16:05	119	16:00	114	13:59 (2)
28	08:24		07:19		06:09	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20		08:50		10:48 (1)
	16:51	106	17:56		18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	119	16:01	114	14:00 (2)
29	08:23				07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21		08:50		10:48 (1)
	16:53	105			19:54	20:55	21:48	22:08	21:35	20:27	19:08	16:55	16:03	118	16:01	114	14:00 (2)
30	08:21				07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23		08:50		10:48 (1)
	16:55	101			19:56	20:57	21:49	22:08	21:33	20:24	19:05	16:53	16:02	119	16:02	114	14:00 (2)
31	08:19				07:01		04:54		05:29	06:26		07:24			08:50		10:48 (1)
	16:57	97			19:58		21:50		21:31	20:22		16:51			16:03	116	14:01 (2)
Potential sun hours	243		270		366	423	500	519	520	464	383	326	253		225		
Total, worst case		3550		609										2882		3554	
Sun reduction		0,18		0,25										0,16		0,13	
Oper. time red.		0,99		0,99										0,99		0,99	
Wind dir. red.		0,64		0,63										0,64		0,64	
Total reduction		0,11		0,15										0,10		0,08	
Total, real		400		93										284		300	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: C - Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March	April	May	June	July	August	September	October	November			December		
1	08:50		11:00 (1)	08:17		11:24 (1)	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26			08:25		10:47 (1)
	16:05	110	14:00 (2)	16:59	55	13:57 (2)	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48			16:01	109	13:46 (2)
2	08:50		11:00 (1)	08:16		11:26 (1)	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:29			08:26		10:46 (1)
	16:06	111	14:00 (2)	17:01	44	13:54 (2)	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46			16:00	110	13:46 (2)
3	08:50		11:01 (1)	08:14		11:29 (1)	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31			08:28		10:47 (1)
	16:07	110	14:00 (2)	17:03	29	13:49 (2)	18:02	20:04	21:02	21:54	22:07	21:26	20:14	18:57	16:44			15:59	110	13:46 (2)
4	08:50		11:01 (1)	08:12		11:36 (1)	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33			08:29		10:48 (1)
	16:09	110	14:00 (2)	17:05	3	11:39 (1)	18:04	20:06	21:04	21:56	22:06	21:24	20:12	18:55	16:42			15:59	109	13:47 (2)
5	08:49		11:02 (1)	08:10			07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:33	07:35			08:31		10:47 (1)
	16:10	111	14:02 (2)	17:07			18:06	20:08	21:06	21:57	22:05	21:22	20:09	18:52	16:40			15:58	110	13:47 (2)
6	08:49		11:02 (1)	08:08			07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37			08:32		10:48 (1)
	16:11	111	14:02 (2)	17:09			18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38			15:57	110	13:48 (2)
7	08:48		11:02 (1)	08:06			07:02	06:43	05:33	04:47	04:53	05:41	06:40	07:36	07:39		11:05 (1)	08:34		10:49 (1)
	16:13	110	14:02 (2)	17:12			18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	7	11:12 (1)	15:57	111	13:49 (2)
8	08:48		11:04 (1)	08:04			07:00	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41		10:59 (1)	08:35		10:49 (1)
	16:14	109	14:03 (2)	17:14			18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	32	13:21 (2)	15:56	111	13:49 (2)
9	08:47		11:04 (1)	08:02			06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43		10:56 (1)	08:36		10:49 (1)
	16:16	110	14:03 (2)	17:16			18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	45	13:24 (2)	15:56	111	13:49 (2)
10	08:46		11:04 (1)	08:00			06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45		10:55 (1)	08:38		10:50 (1)
	16:17	110	14:04 (2)	17:18			18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	56	13:28 (2)	15:55	110	13:50 (2)
11	08:45		11:05 (1)	07:58			06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47		10:53 (1)	08:39		10:50 (1)
	16:19	109	14:04 (2)	17:20			18:18	20:19	21:17	22:03	22:01	21:09	19:54	18:37	16:29	62	13:29 (2)	15:55	110	13:50 (2)
12	08:45		11:05 (1)	07:56			06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49		10:51 (1)	08:40		10:51 (1)
	16:20	109	14:04 (2)	17:22			18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	70	13:31 (2)	15:55	109	13:50 (2)
13	08:44		11:05 (1)	07:54			06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51		10:50 (1)	08:41		10:51 (1)
	16:22	109	14:04 (2)	17:24			18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	74	13:32 (2)	15:55	109	13:50 (2)
14	08:43		11:06 (1)	07:51			06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53		10:49 (1)	08:42		10:51 (1)
	16:24	107	14:04 (2)	17:26			18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	80	13:34 (2)	15:55	110	13:51 (2)
15	08:42		11:07 (1)	07:49			06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55		10:48 (1)	08:43		10:52 (1)
	16:26	107	14:05 (2)	17:29			18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	84	13:35 (2)	15:55	109	13:51 (2)
16	08:41		11:07 (1)	07:47			06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57		10:47 (1)	08:44		10:52 (1)
	16:27	106	14:05 (2)	17:31			18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	88	13:36 (2)	15:55	109	13:51 (2)
17	08:40		11:07 (1)	07:45			06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59		10:47 (1)	08:45		10:53 (1)
	16:29	106	14:05 (2)	17:33			18:30	20:31	21:28	22:07	21:54	20:56	19:39	18:23	16:18	90	13:37 (2)	15:55	109	13:52 (2)
18	08:38		11:08 (1)	07:43			06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01		10:46 (1)	08:46		10:54 (1)
	16:31	104	14:05 (2)	17:35			18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	94	13:38 (2)	15:55	109	13:53 (2)
19	08:37		11:08 (1)	07:40			06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03		10:47 (1)	08:47		10:54 (1)
	16:33	104	14:05 (2)	17:37			18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	95	13:39 (2)	15:55	109	13:53 (2)
20	08:36		11:10 (1)	07:38			06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05		10:46 (1)	08:47		10:54 (1)
	16:35	101	14:05 (2)	17:39			18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15	16:14	98	13:40 (2)	15:56	108	13:53 (2)
21	08:35		11:10 (1)	07:36			06:27	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07		10:46 (1)	08:48		10:55 (1)
	16:37	101	14:05 (2)	17:41			18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	101	13:41 (2)	15:56	109	13:54 (2)
22	08:33		11:11 (1)	07:33			06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09		10:46 (1)	08:48		10:55 (1)
	16:39	98	14:05 (2)	17:43			18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	101	13:41 (2)	15:56	109	13:54 (2)
23	08:32		11:12 (1)	07:31			06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:11		10:45 (1)	08:49		10:56 (1)
	16:41	95	14:04 (2)	17:45			18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:10	104	13:42 (2)	15:57	108	13:55 (2)
24	08:30		11:12 (1)	07:29			06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12		10:45 (1)	08:49		10:56 (1)
	16:43	94	14:04 (2)	17:47			18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	104	13:42 (2)	15:58	109	13:55 (2)
25	08:29		11:14 (1)	07:26			06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14		10:45 (1)	08:50		10:57 (1)
	16:45	90	14:04 (2)	17:50			18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	106	13:43 (2)	15:58	109	13:56 (2)
26	08:27		11:15 (1)	07:24			06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16		10:45 (1)	08:50		10:58 (1)
	16:47	87	14:03 (2)	17:52			18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:02	16:06	106	13:43 (2)	15:59	109	13:57 (2)
27	08:26		11:15 (1)	07:22			06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18		10:46 (1)	08:50		10:58 (1)
	16:49	84	14:02 (2)	17:54			18:50	20:51	21:45	22:08	21:39	20:32	19:13	16:59	16:05	107	13:44 (2)	16:00	109	13:57 (2)
28	08:24		11:17 (1)	07:19			06:09	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20		10:46 (1)	08:50		10:59 (1)
	16:51	78	14:01 (2)	17:56			18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	108	13:44 (2)	16:01	109	13:58 (2)
29	08:23		11:18 (1)				07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21		10:46 (1)	08:50		10:59 (1)
	16:53	74	14:00 (2)				19:54	20:55	21:48	22:08	21:35	20:27	19:08	16:55	16:03	109	13:45 (2)	16:01	110	13:58 (2)
30	08:21		11:19 (1)				07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23		10:47 (1)	08:50		10:59 (1)
	16:55	69	13:59 (2)				19:56	20:57	21:49	22:08	21:33	20:24	19:05	16:53	16:02	108	13:45 (2)	16:02	109	13:58 (2)
31	08:19		11:22 (1)				07:01		04:54		05:29	06:26		07:24				08:50		10:59 (1)
	16:57	63	13:58 (2)				19:58		21:50		21:31	20:22		16:51				16:03	110	13:59 (2)
Potential sun hours	243			270			366	423	500	519	520	464	383	326	253			225		
Total, worst case		3097			131											2029			3392	
Sun reduction		0,18			0,25											0,16			0,13	
Oper. time red.		0,99			0,99											0,99			0,99	
Wind dir. red.		0,64			0,64											0,64			0,64	
Total reduction		0,11			0,15											0,10			0,08	
Total, real		351			20											201			288	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: D - Gyvenamasis pastatas: Neturi adreso (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March	April	May	June	July	August	September	October	November			December		
1	08:50		10:33 (1)	08:17		10:50 (1)	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26			08:25		10:18 (1)
	16:05	109	13:33 (2)	16:59	62	13:27 (2)	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48			16:01	111	13:19 (2)
2	08:50		10:33 (1)	08:16		10:51 (1)	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:29			08:26		10:18 (1)
	16:06	109	13:33 (2)	17:01	53	13:24 (2)	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46			16:00	110	13:19 (2)
3	08:50		10:33 (1)	08:14		10:52 (1)	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31			08:28		10:19 (1)
	16:07	110	13:34 (2)	17:03	33	11:25 (1)	18:02	20:04	21:02	21:54	22:07	21:26	20:14	18:57	16:44			15:59	110	13:19 (2)
4	08:50		10:33 (1)	08:12		10:54 (1)	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33		10:35 (1)	08:29		10:20 (1)
	16:09	110	13:34 (2)	17:05	29	11:23 (1)	18:04	20:06	21:04	21:56	22:06	21:24	20:12	18:55	16:42	8	10:43 (1)	15:59	109	13:20 (2)
5	08:49		10:34 (1)	08:10		10:57 (1)	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:33	07:35		10:29 (1)	08:31		10:19 (1)
	16:10	111	13:35 (2)	17:07	24	11:21 (1)	18:06	20:08	21:06	21:57	22:05	21:22	20:09	18:52	16:40	19	10:48 (1)	15:58	111	13:20 (2)
6	08:49		10:34 (1)	08:08		11:00 (1)	07:05	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37		10:27 (1)	08:32		10:20 (1)
	16:11	111	13:35 (2)	17:09	18	11:18 (1)	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	25	10:52 (1)	15:57	111	13:21 (2)
7	08:48		10:34 (1)	08:06		11:07 (1)	07:02	06:43	05:33	04:47	04:53	05:41	06:40	07:36	07:39		10:25 (1)	08:34		10:21 (1)
	16:13	111	13:35 (2)	17:12	4	11:11 (1)	18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	29	10:54 (1)	15:57	111	13:22 (2)
8	08:48		10:35 (1)	08:04			07:00	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41		10:23 (1)	08:35		10:21 (1)
	16:14	110	13:36 (2)	17:14			18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	36	12:47 (2)	15:56	111	13:22 (2)
9	08:47		10:36 (1)	08:02			06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43		10:21 (1)	08:36		10:21 (1)
	16:16	110	13:36 (2)	17:16			18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	53	12:54 (2)	15:56	110	13:22 (2)
10	08:46		10:36 (1)	08:00			06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45		10:21 (1)	08:38		10:23 (1)
	16:17	110	13:36 (2)	17:18			18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	62	12:58 (2)	15:55	109	13:23 (2)
11	08:45		10:36 (1)	07:58			06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47		10:20 (1)	08:39		10:23 (1)
	16:19	111	13:37 (2)	17:20			18:18	20:19	21:18	22:03	22:01	21:09	19:54	18:37	16:29	68	13:00 (2)	15:55	110	13:23 (2)
12	08:45		10:37 (1)	07:56			06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49		10:18 (1)	08:40		10:23 (1)
	16:20	109	13:37 (2)	17:22			18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	76	13:02 (2)	15:55	110	13:23 (2)
13	08:44		10:36 (1)	07:54			06:47	06:28	05:21	04:44	05:00	05:53	06:51	07:48	07:51		10:18 (1)	08:41		10:24 (1)
	16:22	110	13:36 (2)	17:24			18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	80	13:04 (2)	15:55	108	13:23 (2)
14	08:43		10:37 (1)	07:51			06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53		10:18 (1)	08:42		10:24 (1)
	16:24	109	13:37 (2)	17:26			18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	85	13:06 (2)	15:55	109	13:24 (2)
15	08:42		10:38 (1)	07:49			06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55		10:17 (1)	08:43		10:24 (1)
	16:26	108	13:37 (2)	17:29			18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	89	13:07 (2)	15:55	109	13:24 (2)
16	08:41		10:38 (1)	07:47			06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57		10:17 (1)	08:44		10:25 (1)
	16:27	108	13:38 (2)	17:31			18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	91	13:08 (2)	15:55	109	13:25 (2)
17	08:40		10:38 (1)	07:45			06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59		10:16 (1)	08:45		10:26 (1)
	16:29	107	13:37 (2)	17:33			18:30	20:31	21:28	22:07	21:54	20:56	19:39	18:23	16:18	95	13:09 (2)	15:55	107	13:25 (2)
18	08:39		10:39 (1)	07:43			06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01		10:16 (1)	08:46		10:26 (1)
	16:31	107	13:38 (2)	17:35			18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	97	13:10 (2)	15:55	109	13:26 (2)
19	08:37		10:39 (1)	07:40			06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03		10:16 (1)	08:47		10:27 (1)
	16:33	105	13:37 (2)	17:37			18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	99	13:11 (2)	15:55	109	13:27 (2)
20	08:36		10:40 (1)	07:38			06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05		10:16 (1)	08:47		10:27 (1)
	16:35	104	13:37 (2)	17:39			18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15	16:14	101	13:12 (2)	15:56	108	13:26 (2)
21	08:35		10:40 (1)	07:36			06:27	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07		10:16 (1)	08:48		10:28 (1)
	16:37	102	13:37 (2)	17:41			18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	102	13:13 (2)	15:56	108	13:27 (2)
22	08:33		10:41 (1)	07:33			06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09		10:16 (1)	08:48		10:28 (1)
	16:39	101	13:37 (2)	17:43			18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	104	13:13 (2)	15:56	108	13:27 (2)
23	08:32		10:41 (1)	07:31			06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:11		10:16 (1)	08:49		10:29 (1)
	16:41	99	13:36 (2)	17:45			18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:10	105	13:14 (2)	15:57	108	13:28 (2)
24	08:30		10:42 (1)	07:29			06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12		10:16 (1)	08:49		10:29 (1)
	16:43	97	13:36 (2)	17:47			18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	107	13:15 (2)	15:58	109	13:29 (2)
25	08:29		10:43 (1)	07:26			06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14		10:16 (1)	08:50		10:29 (1)
	16:45	95	13:36 (2)	17:50			18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	107	13:15 (2)	15:58	109	13:29 (2)
26	08:27		10:44 (1)	07:24			06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16		10:16 (1)	08:50		10:31 (1)
	16:47	91	13:35 (2)	17:52			18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:02	16:06	108	13:16 (2)	15:59	107	13:30 (2)
27	08:26		10:44 (1)	07:22			06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18		10:17 (1)	08:50		10:31 (1)
	16:49	89	13:34 (2)	17:54			18:50	20:51	21:45	22:08	21:39	20:32	19:13	16:59	16:05	108	13:16 (2)	16:00	108	13:30 (2)
28	08:24		10:45 (1)	07:19			06:09	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20		10:17 (1)	08:50		10:31 (1)
	16:51	85	13:33 (2)	17:56			18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	109	13:17 (2)	16:01	109	13:31 (2)
29	08:23		10:46 (1)				07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21		10:17 (1)	08:50		10:32 (1)
	16:53	80	13:32 (2)				19:54	20:55	21:48	22:08	21:35	20:27	19:08	16:55	16:03	111	13:18 (2)	16:01	108	13:31 (2)
30	08:21		10:47 (1)				07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23		10:18 (1)	08:50		10:31 (1)
	16:55	74	13:30 (2)				19:56	20:57	21:49	22:08	21:33	20:24	19:05	16:53	16:02	109	13:18 (2)	16:02	110	13:31 (2)
31	08:19		10:49 (1)				07:01		04:54		05:29	06:26		07:24				08:50		10:32 (1)
	16:57	69	13:29 (2)				19:58		21:51		21:31	20:22		16:51				16:03	109	13:32 (2)
Potential sun hours	243			270			366	423	500	519	520	464	383	326	253			225		
Total, worst case		3161			223											2183			3384	
Sun reduction		0,18			0,25											0,16			0,13	
Oper. time red.		0,99			0,99											0,99			0,99	
Wind dir. red.		0,64			0,63											0,64			0,64	
Total reduction		0,11			0,15											0,10			0,08	
Total, real		357			34											216			287	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: E - Gyvenamasis pastatas: Neturi adreso (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:06	21:26	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:24	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:48	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
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15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:56	19:38	18:23	16:19	15:55
18	08:38	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:49	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:50
	16:45	17:50	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:52	04:57	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: F - Gyvenamasis pastatas: Neturi adreso (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:06	21:26	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:24	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:48	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:56	19:38	18:23	16:18	15:55
18	08:38	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:49	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:50
	16:45	17:50	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:52	04:57	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: G - Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May		June		July		August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46		04:53		20:51 (2)	04:48	20:55 (2)	05:30	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58		21:52	24	21:15 (2)	22:07	29 21:24 (2)	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44		04:52		20:51 (2)	04:49	20:56 (2)	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00		21:53	25	21:16 (2)	22:07	28 21:24 (2)	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41		04:51		20:50 (2)	04:50	20:56 (2)	05:34	06:32	07:29	07:30	08:28
	16:07	17:03	18:02	20:03	21:02		21:54	26	21:16 (2)	22:06	28 21:24 (2)	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39		04:50		20:51 (2)	04:50	20:56 (2)	05:36	06:34	07:30	07:33	08:29
	16:09	17:05	18:04	20:05	21:04		21:55	26	21:17 (2)	22:06	28 21:24 (2)	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37		04:49		20:51 (2)	04:51	20:56 (2)	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06		21:57	27	21:18 (2)	22:05	28 21:24 (2)	21:21	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35		04:48		20:50 (2)	04:52	20:57 (2)	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08		21:58	28	21:18 (2)	22:05	27 21:24 (2)	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33		04:48		20:51 (2)	04:53	20:57 (2)	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10		21:59	27	21:18 (2)	22:04	27 21:24 (2)	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31		04:47		20:51 (2)	04:54	20:57 (2)	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12		22:00	27	21:18 (2)	22:03	27 21:24 (2)	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29		04:46		20:51 (2)	04:56	20:58 (2)	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14		22:01	28	21:19 (2)	22:02	26 21:24 (2)	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:36	05:27		04:46		20:51 (2)	04:57	20:58 (2)	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15		22:02	28	21:19 (2)	22:01	26 21:24 (2)	21:11	19:56	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25		04:45		20:51 (2)	04:58	20:58 (2)	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17		22:03	28	21:19 (2)	22:00	25 21:23 (2)	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23		04:45		20:52 (2)	04:59	21:00 (2)	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19		22:03	28	21:20 (2)	21:59	23 21:23 (2)	21:07	19:51	18:35	16:27	15:55
13	08:44	07:53	06:47	06:28	05:21		04:44		20:51 (2)	05:00	21:00 (2)	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21		22:04	28	21:19 (2)	21:58	22 21:22 (2)	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19		04:44		20:51 (2)	05:02	21:00 (2)	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23		22:05	29	21:20 (2)	21:57	21 21:21 (2)	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18		04:44		20:52 (2)	05:03	21:01 (2)	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25		22:05	28	21:20 (2)	21:56	19 21:20 (2)	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16		04:44		20:52 (2)	05:04	21:02 (2)	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26		22:06	28	21:20 (2)	21:55	17 21:19 (2)	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14		04:43		20:52 (2)	05:06	21:03 (2)	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28		22:07	29	21:21 (2)	21:54	15 21:18 (2)	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	06:16	05:12		04:43		20:53 (2)	05:07	21:03 (2)	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30		22:07	28	21:21 (2)	21:52	13 21:16 (2)	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11		04:43		20:53 (2)	05:09	21:05 (2)	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32		22:07	28	21:21 (2)	21:51	11 21:16 (2)	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09		04:43		20:53 (2)	05:10	21:06 (2)	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33		22:08	28	21:21 (2)	21:49	8 21:14 (2)	20:48	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07		04:43		20:53 (2)	05:12	21:08 (2)	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35		22:08	28	21:21 (2)	21:48	5 21:13 (2)	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	21:00 (2)	04:44		20:54 (2)	05:14		06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	2 21:02 (2)	22:08	28	21:22 (2)	21:46		20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	20:57 (2)	04:44		20:54 (2)	05:15		06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	7 21:04 (2)	22:08	28	21:22 (2)	21:45		20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	20:56 (2)	04:44		20:54 (2)	05:17		06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	10 21:06 (2)	22:08	28	21:22 (2)	21:43		20:39	19:20	18:06	16:08	15:58
25	08:29	07:26	06:16	05:59	05:01	20:54 (2)	04:45		20:54 (2)	05:18		06:15	07:13	07:12	08:14	08:49
	16:45	17:49	18:46	20:47	21:42	12 21:06 (2)	22:08	29	21:23 (2)	21:42		20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	20:53 (2)	04:45		20:54 (2)	05:20		06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	15 21:08 (2)	22:08	29	21:23 (2)	21:40		20:34	19:15	17:02	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	20:53 (2)	04:45		20:55 (2)	05:22		06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	16 21:09 (2)	22:08	28	21:23 (2)	21:38		20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:08	05:52	04:57	20:52 (2)	04:46		20:55 (2)	05:23		06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	19 21:11 (2)	22:08	28	21:23 (2)	21:37		20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	20:52 (2)	04:47		20:55 (2)	05:25		06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	20 21:12 (2)	22:08	29	21:24 (2)	21:35		20:27	19:07	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	20:52 (2)	04:47		20:55 (2)	05:27		06:24	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	21 21:13 (2)	22:08	28	21:23 (2)	21:33		20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54	20:51 (2)				05:29		06:26		07:24		08:50
	16:57		19:58		21:50	23 21:14 (2)				21:31		20:22		16:51		16:03
Potential sun hours	243	270	366	423	500		519			520		464	383	326	253	225
Total, worst case						145		831		453						
Sun reduction						0,52		0,48		0,49						
Oper. time red.						0,99		0,99		0,99						
Wind dir. red.						0,63		0,63		0,63						
Total reduction						0,32		0,30		0,30						
Total, real						47		250		137						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: H - Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May		June		July		August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46		04:53	20:37 (2)	04:48	20:44 (2)	05:30	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58		21:52	27 21:04 (2)	22:07	24 21:08 (2)	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44		04:52	20:37 (2)	04:49	20:45 (2)	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00		21:53	27 21:04 (2)	22:07	24 21:09 (2)	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41		04:51	20:37 (2)	04:50	20:45 (2)	05:34	06:32	07:29	07:30	08:28
	16:07	17:03	18:02	20:03	21:02		21:54	27 21:04 (2)	22:06	24 21:09 (2)	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39		04:50	20:38 (2)	04:50	20:44 (2)	05:36	06:34	07:30	07:33	08:29
	16:09	17:05	18:04	20:05	21:04		21:55	26 21:04 (2)	22:06	25 21:09 (2)	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37		04:49	20:38 (2)	04:51	20:44 (2)	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06		21:57	26 21:04 (2)	22:05	25 21:09 (2)	21:21	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35		04:48	20:38 (2)	04:52	20:44 (2)	05:39	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08		21:58	26 21:04 (2)	22:05	26 21:10 (2)	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33		04:48	20:39 (2)	04:53	20:44 (2)	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10		21:59	25 21:04 (2)	22:04	26 21:10 (2)	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31		04:47	20:39 (2)	04:54	20:44 (2)	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12		22:00	25 21:04 (2)	22:03	27 21:11 (2)	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29		04:46	20:40 (2)	04:56	20:44 (2)	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14		22:01	24 21:04 (2)	22:02	27 21:11 (2)	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:35	05:27		04:46	20:39 (2)	04:57	20:44 (2)	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15		22:02	25 21:04 (2)	22:01	27 21:11 (2)	21:11	19:56	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25		04:45	20:40 (2)	04:58	20:44 (2)	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17		22:03	24 21:04 (2)	22:00	27 21:11 (2)	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23		04:45	20:41 (2)	04:59	20:45 (2)	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19		22:03	23 21:04 (2)	21:59	27 21:12 (2)	21:07	19:51	18:35	16:27	15:55
13	08:44	07:53	06:47	06:28	05:21		04:44	20:40 (2)	05:00	20:45 (2)	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21		22:04	24 21:04 (2)	21:58	27 21:12 (2)	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	20:44 (2)	04:44	20:41 (2)	05:02	20:45 (2)	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	6 20:50 (2)	22:05	23 21:04 (2)	21:57	27 21:12 (2)	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	20:41 (2)	04:44	20:41 (2)	05:03	20:45 (2)	05:56	06:54	07:52	07:55	08:43
	16:26	17:28	18:26	20:27	21:25	10 20:51 (2)	22:05	23 21:04 (2)	21:56	27 21:12 (2)	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	20:41 (2)	04:44	20:42 (2)	05:04	20:46 (2)	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	12 20:53 (2)	22:06	22 21:04 (2)	21:55	27 21:13 (2)	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	20:39 (2)	04:43	20:42 (2)	05:06	20:45 (2)	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	15 20:54 (2)	22:07	23 21:05 (2)	21:54	28 21:13 (2)	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	06:16	05:12	20:39 (2)	04:43	20:43 (2)	05:07	20:45 (2)	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	17 20:56 (2)	22:07	22 21:05 (2)	21:52	27 21:12 (2)	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	20:38 (2)	04:43	20:43 (2)	05:09	20:46 (2)	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	19 20:57 (2)	22:07	22 21:05 (2)	21:51	27 21:13 (2)	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	20:37 (2)	04:43	20:43 (2)	05:10	20:46 (2)	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22 20:59 (2)	22:08	22 21:05 (2)	21:49	26 21:12 (2)	20:48	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07	20:36 (2)	04:43	20:43 (2)	05:12	20:46 (2)	06:07	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	24 21:00 (2)	22:08	22 21:05 (2)	21:48	26 21:12 (2)	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	20:36 (2)	04:44	20:44 (2)	05:14	20:47 (2)	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	26 21:02 (2)	22:08	22 21:06 (2)	21:46	25 21:12 (2)	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	20:37 (2)	04:44	20:44 (2)	05:15	20:47 (2)	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	25 21:02 (2)	22:08	22 21:06 (2)	21:45	23 21:10 (2)	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	20:37 (2)	04:44	20:44 (2)	05:17	20:48 (2)	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	26 21:03 (2)	22:08	22 21:06 (2)	21:43	21 21:09 (2)	20:39	19:20	18:06	16:08	15:58
25	08:29	07:26	06:16	05:59	05:01	20:36 (2)	04:45	20:44 (2)	05:18	20:48 (2)	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:47	21:42	27 21:03 (2)	22:08	23 21:07 (2)	21:42	19 21:07 (2)	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	20:36 (2)	04:45	20:44 (2)	05:20	20:49 (2)	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	27 21:03 (2)	22:08	23 21:07 (2)	21:40	17 21:06 (2)	20:34	19:15	17:02	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	20:36 (2)	04:45	20:45 (2)	05:22	20:50 (2)	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	27 21:03 (2)	22:08	22 21:07 (2)	21:38	14 21:04 (2)	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:08	05:52	04:57	20:36 (2)	04:46	20:44 (2)	05:23	20:51 (2)	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	28 21:04 (2)	22:08	23 21:07 (2)	21:37	12 21:03 (2)	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	20:36 (2)	04:47	20:45 (2)	05:25	20:53 (2)	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	28 21:04 (2)	22:08	23 21:08 (2)	21:35	9 21:02 (2)	20:27	19:07	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	20:37 (2)	04:47	20:44 (2)	05:27	20:55 (2)	06:24	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	27 21:04 (2)	22:08	24 21:08 (2)	21:33	4 20:59 (2)	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54	20:37 (2)			05:29		06:26		07:24		08:50
	16:57		19:58		21:50	27 21:04 (2)			21:31		20:22		16:51		16:03
Potential sun hours	243	270	366	423	500		519		520		464	383	326	253	225
Total, worst case						393		712		695					
Sun reduction						0,52		0,48		0,49					
Oper. time red.						0,99		0,99		0,99					
Wind dir. red.						0,63		0,63		0,63					
Total reduction						0,32		0,30		0,30					
Total, real						127		215		211					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: I - Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January		February		March	April	May	June	July	August	September	October	November	December
1	08:50		08:17	15:48 (1)	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26 15:22 (1)	08:25
	16:05		16:59 29	16:17 (1)	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48 44 16:15 (2)	16:01
2	08:50		08:15	15:48 (1)	07:14	06:56	05:43	04:52	04:49	05:32	06:30	07:27	07:28 15:21 (1)	08:26
	16:06		17:01 29	16:17 (1)	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46 44 16:13 (2)	16:00
3	08:50		08:14	15:49 (1)	07:12	06:53	05:41	04:51	04:49	05:34	06:32	07:29	07:31 15:21 (1)	08:28
	16:07		17:03 28	16:17 (1)	18:02	20:04	21:02	21:54	22:06	21:26	20:14	18:57	16:44 42 16:11 (2)	15:59
4	08:49		08:12	15:49 (1)	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30	07:33 15:20 (1)	08:29
	16:08		17:05 31	16:32 (2)	18:04	20:05	21:04	21:56	22:06	21:24	20:12	18:55	16:42 41 16:09 (2)	15:58
5	08:49		08:10	15:49 (1)	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35 15:19 (1)	08:31
	16:10		17:07 36	16:35 (2)	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40 39 16:07 (2)	15:58
6	08:49		08:08	15:50 (1)	07:04	06:46	05:35	04:48	04:52	05:39	06:38	07:34	07:37 15:20 (1)	08:32
	16:11		17:09 38	16:37 (2)	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38 35 16:05 (2)	15:57
7	08:48		08:06	15:50 (1)	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39 15:20 (1)	08:34
	16:13		17:11 42	16:40 (2)	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36 31 16:03 (2)	15:57
8	08:48		08:04	15:51 (1)	06:59	06:40	05:31	04:47	04:54	05:43	06:41	07:38	07:41 15:19 (1)	08:35
	16:14		17:14 43	16:42 (2)	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34 29 15:48 (1)	15:56
9	08:47		08:02	15:52 (1)	06:38	05:29	04:46	04:55	04:55	05:45	06:43	07:40	07:43 15:19 (1)	08:36
	16:16		17:16 45	16:45 (2)	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32 29 15:48 (1)	15:56
10	08:46		08:00	15:53 (1)	06:54	06:35	05:27	04:45	04:57	05:47	06:45	07:42	07:45 15:20 (1)	08:38
	16:17		17:18 45	16:46 (2)	18:16	20:17	21:16	22:02	22:01	21:11	19:56	18:40	16:30 28 15:48 (1)	15:55
11	08:45		07:58	15:54 (1)	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47 15:20 (1)	08:39
	16:19		17:20 44	16:47 (2)	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29 28 15:48 (1)	15:55
12	08:45		07:56	15:56 (1)	06:49	06:30	05:23	04:45	04:59	05:51	06:49	07:46	07:49 15:21 (1)	08:40
	16:20		17:22 39	16:47 (2)	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27 27 15:48 (1)	15:55
13	08:44		07:54	15:59 (1)	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51 15:21 (1)	08:41
	16:22		17:24 34	16:47 (2)	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25 26 15:47 (1)	15:55
14	08:43		07:51	16:24 (2)	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53 15:21 (1)	08:42
	16:24		17:26 22	16:46 (2)	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23 25 15:46 (1)	15:55
15	08:42		07:49	16:24 (2)	06:42	06:23	05:17	04:44	05:03	05:56	06:54	07:52	07:55 15:23 (1)	08:43
	16:25		17:28 22	16:46 (2)	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22 24 15:47 (1)	15:55
16	08:41		07:47	16:26 (2)	06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57 15:24 (1)	08:44
	16:27		17:31 20	16:46 (2)	18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20 21 15:45 (1)	15:55
17	08:40		07:45	16:26 (2)	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59 15:25 (1)	08:45
	16:29		17:33 18	16:44 (2)	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18 18 15:43 (1)	15:55
18	08:38		07:43	16:28 (2)	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01 15:26 (1)	08:46
	16:31		17:35 15	16:43 (2)	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17 15 15:41 (1)	15:55
19	08:37		07:40	16:30 (2)	06:32	06:13	05:10	04:43	05:09	06:04	07:02	08:00	08:03 15:27 (1)	08:46
	16:33		17:37 11	16:41 (2)	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15 12 15:39 (1)	15:55
20	08:36		07:38		06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05 15:30 (1)	08:47
	16:35		17:39		18:36	20:37	21:33	22:08	21:50	20:49	19:31	18:15	16:14 8 15:38 (1)	15:55
21	08:35	15:58 (1)	07:36		06:26	06:09	05:07	04:43	05:12	06:07	07:06	08:04	08:07 15:34 (1)	08:48
	16:37 2	16:00 (1)	17:41		18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12 2 15:36 (1)	15:56
22	08:33	15:55 (1)	07:33		06:24	06:06	05:06	04:43	05:13	06:09	07:08	08:06 17:02 (2)	08:09	08:48
	16:38 8	16:03 (1)	17:43		18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11 6 17:08 (2)	16:11	15:56
23	08:32	15:53 (1)	07:31		06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08 16:59 (2)	08:10	08:49
	16:40 12	16:05 (1)	17:45		18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08 12 17:11 (2)	16:10	15:57
24	08:30	15:52 (1)	07:29		06:19	06:01	05:03	04:44	05:17	06:13	07:11	08:10 16:57 (2)	08:12	08:49
	16:42 15	16:07 (1)	17:47		18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06 17 17:14 (2)	16:08	15:57
25	08:29	15:52 (1)	07:26		06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12 15:56 (2)	08:14	08:50
	16:44 18	16:10 (1)	17:49		18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04 19 16:15 (2)	16:07	15:58
26	08:27	15:51 (1)	07:24		06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14 15:55 (2)	08:16	08:50
	16:46 21	16:12 (1)	17:51		18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:01 20 16:15 (2)	16:06	15:59
27	08:26	15:50 (1)	07:22		06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16 15:54 (2)	08:18	08:50
	16:48 24	16:14 (1)	17:54		18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59 22 16:16 (2)	16:05	16:00
28	08:24	15:49 (1)	07:19		06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18 15:33 (1)	08:19	08:50
	16:50 26	16:15 (1)	17:56		18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57 24 16:16 (2)	16:04	16:00
29	08:22	15:49 (1)			07:06	05:50	04:56	04:46	05:25	06:23	07:21	07:20 15:28 (1)	08:21	08:50
	16:53 26	16:15 (1)			19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55 35 16:17 (2)	16:03	16:01
30	08:21	15:49 (1)			07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22 15:25 (1)	08:23	08:50
	16:55 27	16:16 (1)			19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53 40 16:16 (2)	16:02	16:02
31	08:19	15:48 (1)			07:01		04:54		05:29	06:26		07:24 15:23 (1)		08:50
	16:57 28	16:16 (1)			19:58		21:50		21:31	20:22		16:50 44 16:16 (2)		16:03
Potential sun hours	243		270		366	423	500	519	520	464	383	326	253	225
Total, worst case	207		591									239	568	
Sun reduction	0,18		0,25									0,31	0,16	
Oper. time red.	0,99		0,99									0,99	0,99	
Wind dir. red.	0,64		0,64									0,64	0,64	
Total reduction	0,11		0,16									0,19	0,10	
Total, real	24		92									47	57	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: J - Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26	08:25
	16:05	16:59 20 16:25 (1)	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48 33 15:37 (1) 16:15 (2)	16:01
2	08:50	08:15	07:14	06:56	05:43	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01 22 16:27 (1)	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46 33 15:36 (1) 16:13 (2)	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:49	05:34	06:32	07:29	07:30	08:28
	16:07	17:03 23 16:28 (1)	18:02	20:03	21:02	21:54	22:06	21:26	20:14	18:57	16:44 30 15:36 (1) 16:11 (2)	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30	07:33	08:29
	16:08	17:05 24 16:29 (1)	18:04	20:05	21:04	21:56	22:06	21:24	20:12	18:55	16:42 28 15:35 (1) 16:09 (2)	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07 24 16:29 (1)	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40 24 15:35 (1) 15:59 (1)	15:58
6	08:49	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:38	07:34	07:37	08:32
	16:11	17:09 24 16:29 (1)	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38 24 15:35 (1) 15:59 (1)	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:13	17:11 28 16:06 (1)	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36 24 15:35 (1) 15:59 (1)	15:57
8	08:47	08:04	06:59	06:40	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14 31 16:40 (2)	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34 23 15:36 (1) 15:59 (1)	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:16 33 16:07 (1) 16:45 (2)	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32 22 15:35 (1) 15:58 (1)	15:56
10	08:46	08:00	06:54	06:35	05:27	04:45	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18 34 16:07 (1) 16:46 (2)	18:16	20:17	21:16	22:02	22:01	21:11	19:56	18:40	16:30 20 15:37 (1) 15:57 (1)	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20 36 16:08 (1) 16:49 (2)	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29 17 15:36 (1) 15:55 (1)	15:55
12	08:45	07:56	06:49	06:30	05:23	04:45	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22 35 16:10 (1) 16:51 (2)	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27 14 15:38 (1) 15:52 (1)	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24 32 16:12 (1) 16:53 (2)	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25 11 15:39 (1) 15:50 (1)	15:55
14	08:43	07:51	06:44	06:25	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26 23 16:16 (1) 16:52 (2)	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23 8 15:40 (1) 15:48 (1)	15:55
15	08:42	07:49	06:42	06:23	05:17	04:44	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28 19 16:33 (2) 16:52 (2)	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22 4 15:43 (1) 15:47 (1)	15:55
16	08:41	07:47	06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:31 17 16:34 (2) 16:51 (2)	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33 16 16:34 (2) 16:50 (2)	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35 13 16:36 (2) 16:49 (2)	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:10	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37 8 16:39 (2) 16:47 (2)	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:50	20:49	19:31	18:15	16:14	15:55
21	08:35	07:36	06:26	06:09	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:43	05:13	06:09	07:08	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:09	08:08 17:07 (2)	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08 10 17:17 (2)	16:10	15:57
24	08:30	07:29	06:19	06:01	05:03	04:44	05:17	06:13	07:11	08:10 17:06 (2)	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06 13 17:19 (2)	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12 16:04 (2)	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04 16 16:20 (2)	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14 16:03 (2)	08:16	08:50
	16:46	17:51	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:01 18 16:21 (2)	16:06	15:59
27	08:26 16:10 (1)	07:21	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16 16:02 (2)	08:18	08:50
	16:48 4 16:14 (1)	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59 19 16:21 (2)	16:05	16:00
28	08:24 16:08 (1)	07:19	06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18 15:44 (1)	08:19	08:50
	16:50 8 16:16 (1)	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57 25 16:21 (2)	16:04	16:00
29	08:22 16:07 (1)		07:06	05:50	04:56	04:46	05:25	06:23	07:21	07:20 15:41 (1)	08:21	08:50
	16:53 11 16:18 (1)		19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55 33 16:22 (2)	16:03	16:01
30	08:21 16:06 (1)		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22 15:39 (1)	08:23	08:50
	16:55 15 16:21 (1)		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53 34 16:20 (2)	16:02	16:02
31	08:19 16:06 (1)		07:01		04:54		05:29	06:26		07:24 15:38 (1)		08:50
	16:57 17 16:23 (1)		19:58		21:50		21:31	20:22		16:50 34 16:18 (2)		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case	55	462								202	315	
Sun reduction	0,18	0,25								0,31	0,16	
Oper. time red.	0,99	0,99								0,99	0,99	
Wind dir. red.	0,64	0,64								0,64	0,64	
Total reduction	0,11	0,16								0,19	0,10	
Total, real	6	72								39	31	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: K - Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:45	04:52	04:48	05:30	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:16	07:14	06:56	05:43	04:51	04:48	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:07	21:26	20:14	18:57	16:44	15:59
4	08:50	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30	07:33	08:29
	16:08	17:05	18:04	20:05	21:04	21:56	22:06	21:24	20:12	18:55	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	15:56
8	08:48	08:04	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:27	04:45	04:56	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:02	21:11	19:56	18:40	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:01	21:09	19:54	18:37	16:28	15:55
12	08:45	07:56	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:44	05:01	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:54
15	08:42	07:49	06:42	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:21	15:54
16	08:41	07:47	06:39	06:21	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:56	19:38	18:22	16:18	15:55
18	08:39	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:10	04:43	05:09	06:04	07:02	08:00	08:03	08:47
	16:33	17:37	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15	16:14	15:55
21	08:35	07:36	06:26	06:08	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:43	05:13	06:09	07:08	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:09	08:08	08:11	08:49
	16:40	17:45	18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:29	06:19	06:01	05:03	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:22	06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:16	08:18	08:50
	16:48	17:53	18:50	20:51	21:45	22:09	21:39	20:32	19:13	16:59	16:05	15:59
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20	08:50
	16:50	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:00
29	08:23		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:54	20:55	21:48	22:08	21:35	20:27	19:07	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:54		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:02	16:02
31	08:19		07:01		04:54		05:28	06:26		07:24		08:50
	16:57		19:58		21:51		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: L - Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:45	04:53	04:48	05:30	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:43	04:51	04:48	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:07	21:26	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:50	04:50	05:36	06:34	07:30	07:33	08:29
	16:08	17:05	18:04	20:05	21:04	21:56	22:06	21:24	20:12	18:55	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:48	08:04	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:27	04:45	04:56	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:55
12	08:45	07:56	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:04	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:44	05:01	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:54
15	08:42	07:49	06:42	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:50	20:48	19:31	18:15	16:14	15:55
21	08:35	07:36	06:26	06:08	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:43	05:13	06:09	07:08	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:09	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:29	06:19	06:01	05:03	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:16	08:18	08:50
	16:48	17:53	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	15:59
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20	08:50
	16:50	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:54		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:02	16:02
31	08:19		07:01		04:54		05:28	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: M - Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	20:18 (3)	04:47	20:58 (4)	05:30	20:24 (3)	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52 45	21:15 (4)	22:07 24	21:22 (4)	21:29 29	20:53 (3)	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	20:20 (3)	04:48	20:59 (4)	05:32	20:25 (3)	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53 44	21:17 (4)	22:07 23	21:22 (4)	21:27 28	20:53 (3)	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41	04:50	20:21 (3)	04:49	20:33 (3)	05:33	20:25 (3)	06:31	07:28	07:30	08:27
	16:07	17:02	18:01	20:03	21:02	21:54 42	21:17 (4)	22:06 30	21:23 (4)	21:25 27	20:52 (3)	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	20:23 (3)	04:49	20:21 (3)	04:50	20:32 (3)	05:35	20:26 (3)	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04 10	20:33 (3)	21:55 42	21:17 (4)	22:06 33	21:23 (4)	21:23 25	20:51 (3)	20:11	18:54	16:42	15:58
5	08:49	08:10	07:06	06:48	05:36	20:20 (3)	04:48	20:22 (3)	04:51	20:31 (3)	05:37	20:27 (3)	06:35	07:32	07:34	08:31
	16:09	17:07	18:05	20:07	21:06 14	20:34 (3)	21:56 40	21:17 (4)	22:05 35	21:24 (4)	21:21 22	20:49 (3)	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:34	20:19 (3)	04:48	20:24 (3)	04:52	20:30 (3)	05:39	20:27 (3)	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:08 17	20:36 (3)	21:58 39	21:18 (4)	22:04 38	21:24 (4)	21:19 20	20:47 (3)	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	20:17 (3)	04:47	20:24 (3)	04:53	20:30 (3)	05:41	20:29 (3)	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:10 21	20:38 (3)	21:59 37	21:17 (4)	22:04 39	21:24 (4)	21:17 16	20:45 (3)	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	20:16 (3)	04:46	20:26 (3)	04:54	20:29 (3)	05:43	20:30 (3)	06:41	07:38	07:40	08:35
	16:13	17:13	18:12	20:13	21:11 23	20:39 (3)	22:00 34	21:18 (4)	22:03 41	21:24 (4)	21:15 13	20:43 (3)	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:37	05:28	20:15 (3)	04:45	20:27 (3)	04:55	20:28 (3)	05:44	20:32 (3)	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13 26	20:41 (3)	22:01 32	21:18 (4)	22:02 43	21:24 (4)	21:13 9	20:41 (3)	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	20:14 (3)	04:45	20:30 (3)	04:56	20:28 (3)	05:46		06:45	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15 28	20:42 (3)	22:02 27	21:18 (4)	22:01 42	21:24 (4)	21:11		19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	20:14 (3)	04:44	20:54 (4)	04:57	20:27 (3)	05:48		06:47	07:44	07:47	08:39
	16:18	17:19	18:18	20:19	21:17 29	20:43 (3)	22:02 24	21:18 (4)	22:00 44	21:24 (4)	21:09		19:54	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	20:13 (3)	04:44	20:55 (4)	04:58	20:27 (3)	05:50		06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19 30	20:43 (3)	22:03 23	21:18 (4)	21:59 44	21:23 (4)	21:06		19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	20:13 (3)	04:44	20:55 (4)	05:00	20:26 (3)	05:52		06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21 30	20:43 (3)	22:04 24	21:19 (4)	21:58 44	21:22 (4)	21:04		19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:19	20:12 (3)	04:43	20:56 (4)	05:01	20:25 (3)	05:54		06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23 31	20:43 (3)	22:05 23	21:19 (4)	21:57 44	21:20 (4)	21:02		19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	20:13 (3)	04:43	20:55 (4)	05:02	20:26 (3)	05:56		06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24 31	20:44 (3)	22:05 23	21:18 (4)	21:56 43	21:20 (4)	21:00		19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	20:12 (3)	04:43	20:55 (4)	05:04	20:25 (3)	05:58		06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26 31	20:43 (3)	22:06 24	21:19 (4)	21:55 43	21:19 (4)	20:57		19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	20:13 (3)	04:43	20:56 (4)	05:05	20:24 (3)	05:59		06:58	07:56	07:59	08:45
	16:28	17:32	18:30	20:31	21:28 31	20:44 (3)	22:06 23	21:19 (4)	21:53 42	21:17 (4)	20:55		19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	20:12 (3)	04:43	20:56 (4)	05:07	20:25 (3)	06:01		07:00	07:58	08:01	08:45
	16:30	17:34	18:32	20:33	21:30 32	20:44 (3)	22:07 23	21:19 (4)	21:52 41	21:17 (4)	20:53		19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	20:13 (3)	04:43	20:56 (4)	05:08	20:24 (3)	06:03		07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:31 31	20:44 (3)	22:07 23	21:19 (4)	21:51 40	21:15 (4)	20:51		19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:10	05:08	20:12 (3)	04:43	20:57 (4)	05:10	20:23 (3)	06:05		07:03	08:02	08:04	08:47
	16:34	17:38	18:36	20:37	21:33 31	20:43 (3)	22:08 23	21:20 (4)	21:49 40	21:14 (4)	20:48		19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	20:13 (3)	04:43	20:57 (4)	05:11	20:24 (3)	06:07		07:05	08:04	08:06	08:48
	16:36	17:41	18:38	20:38	21:35 34	21:01 (4)	22:08 23	21:20 (4)	21:48 37	21:13 (4)	20:46		19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	20:14 (3)	04:43	20:57 (4)	05:13	20:23 (3)	06:09		07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:40	21:37 35	21:02 (4)	22:08 23	21:20 (4)	21:46 34	21:11 (4)	20:43		19:25	18:10	16:10	15:56
23	08:32	07:31	06:21	06:03	05:04	20:13 (3)	04:43	20:57 (4)	05:14	20:23 (3)	06:11		07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42	21:38 38	21:03 (4)	22:08 23	21:20 (4)	21:45 32	21:10 (4)	20:41		19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	20:14 (3)	04:43	20:58 (4)	05:16	20:23 (3)	06:13		07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40 39	21:05 (4)	22:08 23	21:21 (4)	21:43 31	20:54 (3)	20:39		19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	20:15 (3)	04:44	20:58 (4)	05:18	20:23 (3)	06:14		07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41 41	21:07 (4)	22:08 23	21:21 (4)	21:42 31	20:54 (3)	20:36		19:17	17:03	16:07	15:57
26	08:27	07:24	06:13	05:56	04:59	20:15 (3)	04:44	20:57 (4)	05:19	20:23 (3)	06:16		07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43 42	21:08 (4)	22:08 24	21:21 (4)	21:40 31	20:54 (3)	20:34		19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	20:15 (3)	04:45	20:58 (4)	05:21	20:23 (3)	06:18		07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44 43	21:09 (4)	22:08 23	21:21 (4)	21:38 31	20:54 (3)	20:31		19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	20:16 (3)	04:45	20:58 (4)	05:23	20:23 (3)	06:20		07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46 43	21:10 (4)	22:08 23	21:21 (4)	21:36 31	20:54 (3)	20:29		19:10	16:56	16:03	16:00
29	08:22		07:05	05:50	04:55	20:16 (3)	04:46	20:58 (4)	05:25	20:23 (3)	06:22		07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47 43	21:11 (4)	22:08 24	21:22 (4)	21:35 31	20:54 (3)	20:26		19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	20:17 (3)	04:46	20:59 (4)	05:26	20:24 (3)	06:24		07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49 45	21:13 (4)	22:07 23	21:22 (4)	21:33 30	20:54 (3)	20:24		19:04	16:52	16:01	16:02
31	08:19		07:00		04:53	20:18 (3)			05:28	20:23 (3)	06:26			07:24		08:50
	16:56		19:57		21:50 44	21:14 (4)			21:31 30	20:53 (3)	20:21			16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Total, worst case					893	847	1122	189				
Sun reduction					0,52	0,48	0,49	0,52				
Oper. time red.					0,99	0,99	0,99	0,99				
Wind dir. red.					0,63	0,63	0,63	0,63				
Total reduction					0,32	0,30	0,30	0,32				
Total, real					288	255	340	61				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: N - Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May		June		July		August		September	October	November	December
1	08:50	08:17	07:16	06:58	05:45		20:24 (3)	04:52	20:49 (4)	04:47	20:57 (4)	05:30	20:21 (3)	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	3	20:27 (3)	21:52 23	21:12 (4)	22:07 20	21:17 (4)	21:29 30	20:51 (3)	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43		20:20 (3)	04:51	20:50 (4)	04:48	20:57 (4)	05:32	20:22 (3)	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	9	20:29 (3)	21:53 23	21:13 (4)	22:07 21	21:18 (4)	21:27 29	20:51 (3)	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41		20:18 (3)	04:50	20:50 (4)	04:49	20:57 (4)	05:33	20:22 (3)	06:31	07:28	07:30	08:27
	16:07	17:02	18:01	20:03	21:02	13	20:31 (3)	21:54 23	21:13 (4)	22:06 21	21:18 (4)	21:25 28	20:50 (3)	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39		20:16 (3)	04:49	20:50 (4)	04:50	20:57 (4)	05:35	20:22 (3)	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	17	20:33 (3)	21:55 23	21:13 (4)	22:06 22	21:19 (4)	21:23 28	20:50 (3)	20:11	18:54	16:42	15:58
5	08:49	08:10	07:06	06:48	05:36		20:15 (3)	04:48	20:50 (4)	04:51	20:57 (4)	05:37	20:23 (3)	06:35	07:32	07:34	08:31
	16:09	17:07	18:05	20:07	21:06	19	20:34 (3)	21:56 23	21:13 (4)	22:05 22	21:19 (4)	21:21 26	20:49 (3)	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:34		20:14 (3)	04:48	20:51 (4)	04:52	20:58 (4)	05:39	20:23 (3)	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:08	22	20:36 (3)	21:58 23	21:14 (4)	22:04 22	21:20 (4)	21:19 24	20:47 (3)	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32		20:13 (3)	04:47	20:51 (4)	04:53	20:58 (4)	05:41	20:24 (3)	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:10	25	20:38 (3)	21:59 22	21:13 (4)	22:04 22	21:20 (4)	21:17 21	20:45 (3)	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30		20:12 (3)	04:46	20:52 (4)	04:54	20:58 (4)	05:43	20:25 (3)	06:41	07:38	07:40	08:35
	16:13	17:13	18:12	20:13	21:11	27	20:39 (3)	22:00 22	21:14 (4)	22:03 22	21:20 (4)	21:15 18	20:43 (3)	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:37	05:28		20:12 (3)	04:45	20:52 (4)	04:55	20:58 (4)	05:44	20:25 (3)	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	28	20:40 (3)	22:01 21	21:13 (4)	22:02 23	21:21 (4)	21:13 16	20:41 (3)	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26		20:11 (3)	04:45	20:53 (4)	04:56	20:58 (4)	05:46	20:27 (3)	06:45	07:42	07:45	08:37
	16:16	17:17	18:16	20:17	21:15	29	20:40 (3)	22:02 21	21:14 (4)	22:01 23	21:21 (4)	21:11 12	20:39 (3)	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24		20:12 (3)	04:44	20:52 (4)	04:57	20:58 (4)	05:48	20:30 (3)	06:47	07:44	07:47	08:39
	16:18	17:19	18:18	20:19	21:17	29	20:41 (3)	22:02 21	21:13 (4)	22:00 23	21:21 (4)	21:09 7	20:37 (3)	19:54	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22		20:11 (3)	04:44	20:53 (4)	04:58	20:32 (3)	05:50		06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	30	20:41 (3)	22:03 20	21:13 (4)	21:59 29	21:21 (4)	21:06		19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21		20:11 (3)	04:44	20:53 (4)	05:00	20:30 (3)	05:52		06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	29	20:40 (3)	22:04 21	21:14 (4)	21:58 33	21:21 (4)	21:04		19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:19		20:10 (3)	04:43	20:54 (4)	05:01	20:29 (3)	05:54		06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	30	20:40 (3)	22:05 20	21:14 (4)	21:57 35	21:20 (4)	21:02		19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17		20:11 (3)	04:43	20:54 (4)	05:02	20:28 (3)	05:56		06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	30	20:41 (3)	22:05 19	21:13 (4)	21:56 37	21:20 (4)	21:00		19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15		20:11 (3)	04:43	20:54 (4)	05:04	20:27 (3)	05:58		06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	29	20:40 (3)	22:06 20	21:14 (4)	21:55 39	21:19 (4)	20:57		19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13		20:12 (3)	04:43	20:54 (4)	05:05	20:26 (3)	05:59		06:58	07:56	07:59	08:45
	16:28	17:32	18:30	20:31	21:28	29	20:41 (3)	22:06 20	21:14 (4)	21:53 38	21:17 (4)	20:55		19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12		20:11 (3)	04:43	20:55 (4)	05:07	20:26 (3)	06:01		07:00	07:58	08:01	08:45
	16:30	17:34	18:32	20:33	21:30	31	20:56 (4)	22:07 19	21:14 (4)	21:52 39	21:17 (4)	20:53		19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10		20:12 (3)	04:43	20:55 (4)	05:08	20:25 (3)	06:03		07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:31	33	20:58 (4)	22:07 19	21:14 (4)	21:51 38	21:15 (4)	20:51		19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:10	05:08		20:12 (3)	04:43	20:56 (4)	05:10	20:24 (3)	06:05		07:03	08:02	08:04	08:47
	16:34	17:38	18:36	20:37	21:33	34	20:59 (4)	22:08 19	21:15 (4)	21:49 38	21:14 (4)	20:48		19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07		20:13 (3)	04:43	20:56 (4)	05:11	20:24 (3)	06:07		07:05	08:04	08:06	08:47
	16:36	17:41	18:38	20:38	21:35	36	21:01 (4)	22:08 19	21:15 (4)	21:48 37	21:13 (4)	20:46		19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05		20:14 (3)	04:43	20:56 (4)	05:13	20:23 (3)	06:09		07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:40	21:37	36	21:02 (4)	22:08 19	21:15 (4)	21:46 36	21:11 (4)	20:43		19:25	18:10	16:10	15:56
23	08:32	07:31	06:21	06:03	05:04		20:14 (3)	04:43	20:56 (4)	05:14	20:23 (3)	06:11		07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42	21:38	37	21:03 (4)	22:08 19	21:15 (4)	21:45 35	21:10 (4)	20:41		19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02		20:15 (3)	04:43	20:57 (4)	05:16	20:22 (3)	06:13		07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	38	21:05 (4)	22:08 19	21:16 (4)	21:43 33	21:08 (4)	20:39		19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01		20:16 (3)	04:44	20:56 (4)	05:18	20:22 (3)	06:14		07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	38	21:07 (4)	22:08 20	21:16 (4)	21:42 32	21:07 (4)	20:36		19:17	17:03	16:07	15:57
26	08:27	07:24	06:13	05:56	04:59		20:17 (3)	04:44	20:56 (4)	05:19	20:22 (3)	06:16		07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	38	21:08 (4)	22:08 20	21:16 (4)	21:40 28	20:50 (3)	20:34		19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58		20:17 (3)	04:45	20:57 (4)	05:21	20:22 (3)	06:18		07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	38	21:09 (4)	22:08 19	21:16 (4)	21:38 29	20:51 (3)	20:31		19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57		20:18 (3)	04:45	20:56 (4)	05:23	20:21 (3)	06:20		07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	38	21:10 (4)	22:08 20	21:16 (4)	21:36 30	20:51 (3)	20:29		19:10	16:56	16:03	16:00
29	08:22		07:05	05:50	04:55		20:19 (3)	04:46	20:57 (4)	05:25	20:21 (3)	06:22		07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	37	21:11 (4)	22:08 20	21:17 (4)	21:35 30	20:51 (3)	20:26		19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54		20:21 (3)	04:46	20:57 (4)	05:26	20:22 (3)	06:24		07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	35	21:12 (4)	22:07 21	21:18 (4)	21:33 29	20:51 (3)	20:24		19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		20:23 (3)			05:28	20:21 (3)	06:26			07:24		08:50
	16:56		19:57		21:50	31	21:12 (4)			21:31 30	20:51 (3)	20:21			16:50		16:03
Potential sun hours	243	270	366	423	501			519		521		465		383	326	253	225
Total, worst case						898		618		916		239					
Sun reduction						0,52		0,48		0,49		0,52					
Oper. time red.						0,99		0,99		0,99		0,99					
Wind dir. red.						0,63		0,63		0,63		0,63					
Total reduction						0,32		0,30		0,30		0,32					
Total, real						290		186		278		77					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: O - Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May		June		July		August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45		04:52	20:10 (8)	04:47	20:15 (8)	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58		21:52 47	20:57 (8)	22:07 50	21:05 (8)	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43		04:51	20:10 (8)	04:48	20:15 (8)	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00		21:53 47	20:57 (8)	22:07 50	21:05 (8)	21:27	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41		04:50	20:11 (8)	04:49	20:16 (8)	05:33	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02		21:54 47	20:58 (8)	22:06 49	21:05 (8)	21:25	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38		04:49	20:10 (8)	04:49	20:16 (8)	05:35	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04		21:55 48	20:58 (8)	22:06 50	21:06 (8)	21:23	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36		04:48	20:10 (8)	04:50	20:16 (8)	05:37	06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06		21:56 48	20:58 (8)	22:05 49	21:05 (8)	21:21	20:09	18:52	16:39	15:57
6	08:48	08:08	07:04	06:45	05:34		04:47	20:10 (8)	04:51	20:16 (8)	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08		21:58 48	20:58 (8)	22:04 49	21:05 (8)	21:19	20:06	18:49	16:37	15:56
7	08:48	08:06	07:01	06:42	05:32		04:46	20:10 (8)	04:52	20:16 (8)	05:40	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:10		21:59 49	20:59 (8)	22:04 49	21:05 (8)	21:17	20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30		04:46	20:10 (8)	04:53	20:17 (8)	05:42	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11		22:00 49	20:59 (8)	22:03 48	21:05 (8)	21:15	20:01	18:44	16:33	15:55
9	08:47	08:02	06:56	06:37	05:28		04:45	20:10 (8)	04:55	20:17 (8)	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13		22:01 50	21:00 (8)	22:02 48	21:05 (8)	21:13	19:59	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26		04:45	20:10 (8)	04:56	20:17 (8)	05:46	06:44	07:42	07:45	08:37
	16:16	17:17	18:15	20:17	21:15		22:02 50	21:00 (8)	22:01 48	21:05 (8)	21:11	19:56	18:39	16:30	15:54
11	08:45	07:57	06:51	06:32	05:24		04:44	20:10 (8)	04:57	20:18 (8)	05:48	06:46	07:44	07:47	08:39
	16:18	17:19	18:17	20:19	21:17		22:02 50	21:00 (8)	22:00 47	21:05 (8)	21:09	19:53	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22		04:44	20:11 (8)	04:58	20:19 (8)	05:50	06:48	07:46	07:49	08:40
	16:19	17:21	18:19	20:21	21:19		22:03 50	21:01 (8)	21:59 46	21:05 (8)	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20		04:43	20:11 (8)	04:59	20:19 (8)	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:21	20:23	21:21		22:04 50	21:01 (8)	21:58 46	21:05 (8)	21:04	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	20:27 (8)	04:43	20:11 (8)	05:01	20:19 (8)	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23 10	20:37 (8)	22:05 50	21:01 (8)	21:57 45	21:04 (8)	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	20:24 (8)	04:43	20:11 (8)	05:02	20:19 (8)	05:55	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24 17	20:41 (8)	22:05 50	21:01 (8)	21:56 45	21:04 (8)	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	20:21 (8)	04:42	20:11 (8)	05:04	20:21 (8)	05:57	06:56	07:53	07:57	08:44
	16:26	17:30	18:28	20:29	21:26 22	20:43 (8)	22:06 51	21:02 (8)	21:55 43	21:04 (8)	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	20:19 (8)	04:42	20:11 (8)	05:05	20:21 (8)	05:59	06:58	07:55	07:59	08:45
	16:28	17:32	18:29	20:31	21:28 26	20:45 (8)	22:06 51	21:02 (8)	21:53 43	21:04 (8)	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	20:18 (8)	04:42	20:12 (8)	05:06	20:21 (8)	06:01	07:00	07:57	08:01	08:45
	16:30	17:34	18:31	20:33	21:30 29	20:47 (8)	22:07 50	21:02 (8)	21:52 42	21:03 (8)	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	20:16 (8)	04:42	20:12 (8)	05:08	20:22 (8)	06:03	07:01	07:59	08:03	08:46
	16:32	17:36	18:33	20:35	21:32 32	20:48 (8)	22:07 50	21:02 (8)	21:51 41	21:03 (8)	20:50	19:33	18:17	16:14	15:54
20	08:36	07:38	06:28	06:10	05:08	20:16 (8)	04:42	20:12 (8)	05:09	20:23 (8)	06:05	07:03	08:02	08:04	08:47
	16:34	17:38	18:35	20:36	21:33 33	20:49 (8)	22:08 50	21:02 (8)	21:49 39	21:02 (8)	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:06	20:15 (8)	04:42	20:12 (8)	05:11	20:24 (8)	06:07	07:05	08:04	08:06	08:48
	16:36	17:40	18:37	20:38	21:35 36	20:51 (8)	22:08 50	21:02 (8)	21:48 38	21:02 (8)	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	20:14 (8)	04:43	20:13 (8)	05:13	20:24 (8)	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:37 37	20:51 (8)	22:08 50	21:03 (8)	21:46 37	21:01 (8)	20:43	19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	05:03	20:13 (8)	04:43	20:13 (8)	05:14	20:26 (8)	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42	21:38 39	20:52 (8)	22:08 50	21:03 (8)	21:45 34	21:00 (8)	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	20:13 (8)	04:43	20:13 (8)	05:16	20:27 (8)	06:12	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40 40	20:53 (8)	22:08 50	21:03 (8)	21:43 32	20:59 (8)	20:39	19:20	18:05	16:08	15:57
25	08:29	07:26	06:16	05:58	05:00	20:12 (8)	04:43	20:14 (8)	05:17	20:28 (8)	06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41 41	20:53 (8)	22:08 50	21:04 (8)	21:42 30	20:58 (8)	20:36	19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	04:59	20:12 (8)	04:44	20:13 (8)	05:19	20:29 (8)	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43 42	20:54 (8)	22:08 51	21:04 (8)	21:40 27	20:56 (8)	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	04:58	20:11 (8)	04:44	20:14 (8)	05:21	20:31 (8)	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44 44	20:55 (8)	22:08 50	21:04 (8)	21:38 24	20:55 (8)	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:56	20:11 (8)	04:45	20:14 (8)	05:23	20:33 (8)	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46 44	20:55 (8)	22:08 50	21:04 (8)	21:36 20	20:53 (8)	20:29	19:09	16:56	16:03	16:00
29	08:22		07:05	05:49	04:55	20:11 (8)	04:46	20:14 (8)	05:24	20:36 (8)	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47 45	20:56 (8)	22:08 51	21:05 (8)	21:35 14	20:50 (8)	20:26	19:07	16:54	16:02	16:00
30	08:20		07:03	05:47	04:54	20:11 (8)	04:46	20:14 (8)	05:26	20:41 (8)	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49 45	20:56 (8)	22:08 50	21:04 (8)	21:33 3	20:44 (8)	20:24	19:04	16:52	16:01	16:01
31	08:19		07:00		04:53	20:10 (8)			05:28		06:26		07:24		08:50
	16:56		19:57		21:50 47	20:57 (8)			21:31		20:21		16:50		16:02
Potential sun hours	243	269	366	423	501		519		521		465	383	326	253	225
Total, worst case						629		1487		1186					
Sun reduction						0,52		0,48		0,49					
Oper. time red.						0,99		0,99		0,99					
Wind dir. red.						0,63		0,63		0,63					
Total reduction						0,32		0,30		0,30					
Total, real						203		449		360					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: P - Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	19:50 (8)	04:47	19:57 (8)	05:30	20:04 (8)	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52 49	20:39 (8)	22:07 48	20:45 (8)	21:29 40	20:44 (8)	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	19:50 (8)	04:48	19:57 (8)	05:31	20:04 (8)	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53 49	20:39 (8)	22:07 48	20:45 (8)	21:27 39	20:43 (8)	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41	20:08 (8)	04:50	19:51 (8)	04:48	19:58 (8)	05:33	20:05 (8)	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02 11	20:19 (8)	21:54 49	20:40 (8)	22:06 48	20:46 (8)	21:25 37	20:42 (8)	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	20:04 (8)	04:49	19:51 (8)	04:49	19:58 (8)	05:35	20:06 (8)	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04 19	20:23 (8)	21:55 49	20:40 (8)	22:06 48	20:46 (8)	21:23 35	20:41 (8)	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	20:02 (8)	04:48	19:51 (8)	04:50	19:57 (8)	05:37	20:07 (8)	06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06 24	20:26 (8)	21:56 49	20:40 (8)	22:05 48	20:45 (8)	21:21 32	20:39 (8)	20:09	18:52	16:39	15:57
6	08:48	08:08	07:04	06:45	05:34	20:00 (8)	04:47	19:51 (8)	04:51	19:57 (8)	05:39	20:08 (8)	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08 28	20:28 (8)	21:58 49	20:40 (8)	22:04 49	20:46 (8)	21:19 30	20:38 (8)	20:06	18:49	16:37	15:56
7	08:48	08:06	07:01	06:42	05:32	19:59 (8)	04:46	19:52 (8)	04:52	19:57 (8)	05:40	20:10 (8)	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:10 30	20:29 (8)	21:59 48	20:40 (8)	22:04 49	20:46 (8)	21:17 27	20:37 (8)	20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30	19:57 (8)	04:46	19:52 (8)	04:53	19:57 (8)	05:42	20:13 (8)	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11 33	20:30 (8)	22:00 48	20:40 (8)	22:03 49	20:46 (8)	21:15 22	20:35 (8)	20:01	18:44	16:33	15:55
9	08:47	08:02	06:56	06:37	05:28	19:56 (8)	04:45	19:52 (8)	04:55	19:57 (8)	05:44	20:15 (8)	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13 35	20:31 (8)	22:01 48	20:40 (8)	22:02 50	20:47 (8)	21:13 16	20:31 (8)	19:59	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	19:54 (8)	04:45	19:52 (8)	04:56	19:57 (8)	05:46	20:20 (8)	06:44	07:42	07:45	08:37
	16:16	17:17	18:15	20:17	21:15 38	20:32 (8)	22:02 48	20:40 (8)	22:01 50	20:47 (8)	21:11 6	20:26 (8)	19:56	18:39	16:30	15:54
11	08:45	07:57	06:51	06:32	05:24	19:53 (8)	04:44	19:53 (8)	04:57	19:58 (8)	05:48		06:46	07:44	07:47	08:39
	16:18	17:19	18:17	20:19	21:17 40	20:33 (8)	22:02 47	20:40 (8)	22:00 50	20:48 (8)	21:09		19:53	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	19:53 (8)	04:44	19:53 (8)	04:58	19:58 (8)	05:50		06:48	07:46	07:49	08:40
	16:19	17:21	18:19	20:21	21:19 41	20:34 (8)	22:03 48	20:41 (8)	21:59 50	20:48 (8)	21:06		19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	19:52 (8)	04:43	19:54 (8)	04:59	19:58 (8)	05:52		06:50	07:48	07:51	08:41
	16:21	17:24	18:21	20:23	21:21 43	20:35 (8)	22:04 47	20:41 (8)	21:58 50	20:48 (8)	21:04		19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	19:51 (8)	04:43	19:54 (8)	05:01	19:58 (8)	05:54		06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23 44	20:35 (8)	22:05 47	20:41 (8)	21:57 50	20:48 (8)	21:02		19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	19:51 (8)	04:43	19:54 (8)	05:02	19:58 (8)	05:55		06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24 45	20:36 (8)	22:05 47	20:41 (8)	21:56 50	20:48 (8)	21:00		19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	19:50 (8)	04:42	19:54 (8)	05:04	19:59 (8)	05:57		06:56	07:53	07:57	08:44
	16:26	17:30	18:27	20:29	21:26 46	20:36 (8)	22:06 47	20:41 (8)	21:55 49	20:48 (8)	20:57		19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	19:50 (8)	04:42	19:55 (8)	05:05	19:58 (8)	05:59		06:58	07:55	07:59	08:45
	16:28	17:32	18:29	20:31	21:28 46	20:36 (8)	22:06 46	20:41 (8)	21:53 50	20:48 (8)	20:55		19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	19:50 (8)	04:42	19:55 (8)	05:06	19:58 (8)	06:01		07:00	07:57	08:01	08:45
	16:30	17:34	18:31	20:33	21:30 47	20:37 (8)	22:07 46	20:41 (8)	21:52 50	20:48 (8)	20:53		19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	19:49 (8)	04:42	19:55 (8)	05:08	19:59 (8)	06:03		07:01	07:59	08:03	08:46
	16:32	17:36	18:33	20:35	21:32 48	20:37 (8)	22:07 47	20:42 (8)	21:51 50	20:49 (8)	20:50		19:33	18:17	16:14	15:54
20	08:36	07:38	06:28	06:10	05:08	19:49 (8)	04:42	19:55 (8)	05:09	19:59 (8)	06:05		07:03	08:02	08:04	08:47
	16:34	17:38	18:35	20:36	21:33 49	20:38 (8)	22:08 47	20:42 (8)	21:49 49	20:48 (8)	20:48		19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:06	19:50 (8)	04:42	19:55 (8)	05:11	19:59 (8)	06:07		07:05	08:04	08:06	08:48
	16:36	17:40	18:37	20:38	21:35 48	20:38 (8)	22:08 47	20:42 (8)	21:48 50	20:49 (8)	20:46		19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	19:49 (8)	04:43	19:56 (8)	05:13	19:59 (8)	06:09		07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:37 49	20:38 (8)	22:08 47	20:43 (8)	21:46 49	20:48 (8)	20:43		19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	05:03	19:49 (8)	04:43	19:56 (8)	05:14	20:00 (8)	06:11		07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42	21:38 49	20:38 (8)	22:08 47	20:43 (8)	21:45 49	20:49 (8)	20:41		19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	19:49 (8)	04:43	19:56 (8)	05:16	20:00 (8)	06:12		07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40 50	20:39 (8)	22:08 46	20:42 (8)	21:43 48	20:48 (8)	20:39		19:20	18:05	16:08	15:57
25	08:29	07:26	06:16	05:58	05:00	19:49 (8)	04:43	19:57 (8)	05:17	20:01 (8)	06:14		07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41 49	20:38 (8)	22:08 46	20:43 (8)	21:42 47	20:48 (8)	20:36		19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	04:59	19:49 (8)	04:44	19:56 (8)	05:19	20:00 (8)	06:16		07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43 50	20:39 (8)	22:08 47	20:43 (8)	21:40 47	20:47 (8)	20:34		19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	04:58	19:49 (8)	04:44	19:57 (8)	05:21	20:01 (8)	06:18		07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44 50	20:39 (8)	22:08 47	20:44 (8)	21:38 46	20:47 (8)	20:31		19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:56	19:49 (8)	04:45	19:57 (8)	05:23	20:01 (8)	06:20		07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46 50	20:39 (8)	22:08 47	20:44 (8)	21:36 45	20:46 (8)	20:29		19:09	16:56	16:03	16:00
29	08:22		07:05	05:49	04:55	19:49 (8)	04:46	19:57 (8)	05:24	20:02 (8)	06:22		07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47 50	20:39 (8)	22:08 47	20:44 (8)	21:35 44	20:46 (8)	20:26		19:07	16:54	16:02	16:00
30	08:20		07:03	05:47	04:54	19:50 (8)	04:46	19:57 (8)	05:26	20:02 (8)	06:24		07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49 49	20:39 (8)	22:08 47	20:44 (8)	21:33 43	20:45 (8)	20:24		19:04	16:52	16:01	16:01
31	08:19		07:00		04:53	19:50 (8)			05:28	20:03 (8)	06:26			07:24		08:50
	16:56		19:57		21:50 49	20:39 (8)			21:31 42	20:45 (8)	20:21			16:50		16:02
Potential sun hours	243	269	366	423	501		519		521		465		383	326	253	225
Total, worst case						1210		1423		1495		284				
Sun reduction						0,52		0,48		0,49		0,52				
Oper. time red.						0,99		0,99		0,99		0,99				
Wind dir. red.						0,63		0,63		0,63		0,63				
Total reduction						0,32		0,30		0,30		0,32				
Total, real						390		428		453		91				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: Q - Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	19:36 (8)	04:52	19:43 (8)	04:47	19:59 (8)	05:30	19:43 (8)	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58 41	20:17 (8)	21:52 28	20:11 (8)	22:07 8	20:07 (8)	21:29 46	20:29 (8)	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	19:35 (8)	04:51	19:44 (8)	04:48	19:58 (8)	05:31	19:42 (8)	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00 41	20:16 (8)	21:53 26	20:10 (8)	22:07 11	20:09 (8)	21:27 46	20:28 (8)	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41	19:34 (8)	04:50	19:45 (8)	04:48	19:57 (8)	05:33	19:42 (8)	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02 43	20:17 (8)	21:54 26	20:11 (8)	22:06 14	20:11 (8)	21:25 47	20:29 (8)	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	19:33 (8)	04:49	19:46 (8)	04:49	19:57 (8)	05:35	19:43 (8)	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04 44	20:17 (8)	21:55 24	20:10 (8)	22:06 15	20:12 (8)	21:23 46	20:29 (8)	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	19:34 (8)	04:48	19:47 (8)	04:50	19:55 (8)	05:37	19:42 (8)	06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06 44	20:18 (8)	21:56 22	20:09 (8)	22:05 17	20:12 (8)	21:21 46	20:28 (8)	20:09	18:52	16:39	15:57
6	08:48	08:08	07:04	06:45	05:34	19:33 (8)	04:47	19:47 (8)	04:51	19:54 (8)	05:39	19:42 (8)	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08 45	20:18 (8)	21:58 21	20:08 (8)	22:04 20	20:14 (8)	21:19 46	20:28 (8)	20:06	18:49	16:37	15:56
7	08:48	08:06	07:01	06:42	05:32	19:33 (8)	04:46	19:49 (8)	04:52	19:54 (8)	05:40	19:43 (8)	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:10 46	20:19 (8)	21:59 19	20:08 (8)	22:04 21	20:15 (8)	21:17 45	20:28 (8)	20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30	19:33 (8)	04:46	19:50 (8)	04:53	19:53 (8)	05:42	19:43 (8)	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11 46	20:19 (8)	22:00 16	20:06 (8)	22:03 23	20:16 (8)	21:15 45	20:28 (8)	20:01	18:44	16:33	15:55
9	08:47	08:02	06:56	06:37	05:28	19:32 (8)	04:45	19:52 (8)	04:54	19:52 (8)	05:44	19:43 (8)	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13 46	20:18 (8)	22:01 14	20:06 (8)	22:02 25	20:17 (8)	21:13 43	20:26 (8)	19:59	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	19:32 (8)	04:45	19:52 (8)	04:56	19:51 (8)	05:46	19:44 (8)	06:44	07:42	07:45	08:37
	16:16	17:17	18:15	20:17	21:15 46	20:18 (8)	22:02 12	20:04 (8)	22:01 26	20:17 (8)	21:11 42	20:26 (8)	19:56	18:39	16:30	15:54
11	08:45	07:57	06:51	06:32	05:24	19:32 (8)	04:44	19:54 (8)	04:57	19:52 (8)	05:48	19:44 (8)	06:46	07:44	07:47	08:39
	16:18	17:19	18:17	20:19	21:17 46	20:18 (8)	22:02 10	20:04 (8)	22:00 27	20:19 (8)	21:09 41	20:25 (8)	19:53	18:36	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	19:33 (8)	04:44	19:57 (8)	04:58	19:51 (8)	05:50	19:44 (8)	06:48	07:46	07:49	08:40
	16:19	17:21	18:19	20:21	21:19 46	20:19 (8)	22:03 6	20:03 (8)	21:59 29	20:20 (8)	21:06 40	20:24 (8)	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	19:32 (8)	04:43		04:59	19:50 (8)	05:52	19:45 (8)	06:50	07:48	07:51	08:41
	16:21	17:23	18:21	20:23	21:21 46	20:18 (8)	22:04		21:58 31	20:21 (8)	21:04 38	20:23 (8)	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	19:32 (8)	04:43		05:01	19:49 (8)	05:54	19:46 (8)	06:52	07:50	07:53	08:42
	16:23	17:26	18:23	20:25	21:23 46	20:18 (8)	22:05		21:57 32	20:21 (8)	21:02 36	20:22 (8)	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	19:33 (8)	04:43		05:02	19:48 (8)	05:55	19:47 (8)	06:54	07:52	07:55	08:43
	16:25	17:28	18:25	20:27	21:24 45	20:18 (8)	22:05		21:56 34	20:22 (8)	21:00 34	20:21 (8)	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	19:33 (8)	04:42		05:03	19:48 (8)	05:57	19:49 (8)	06:56	07:53	07:57	08:44
	16:26	17:30	18:27	20:29	21:26 45	20:18 (8)	22:06		21:55 35	20:23 (8)	20:57 31	20:20 (8)	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:17	05:13	19:33 (8)	04:42		05:05	19:48 (8)	05:59	19:49 (8)	06:58	07:55	07:59	08:45
	16:28	17:32	18:29	20:31	21:28 44	20:17 (8)	22:06		21:53 35	20:23 (8)	20:55 28	20:17 (8)	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	19:34 (8)	04:42		05:06	19:47 (8)	06:01	19:51 (8)	07:00	07:57	08:01	08:45
	16:30	17:34	18:31	20:33	21:30 43	20:17 (8)	22:07		21:52 37	20:24 (8)	20:53 25	20:16 (8)	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	19:33 (8)	04:42		05:08	19:47 (8)	06:03	19:53 (8)	07:01	07:59	08:03	08:46
	16:32	17:36	18:33	20:35	21:32 44	20:17 (8)	22:07		21:51 38	20:25 (8)	20:50 20	20:13 (8)	19:33	18:17	16:14	15:54
20	08:36	07:38	06:28	06:10	05:08	19:34 (8)	04:42		05:09	19:46 (8)	06:05	19:57 (8)	07:03	08:02	08:04	08:47
	16:34	17:38	18:35	20:36	21:33 43	20:17 (8)	22:08		21:49 39	20:25 (8)	20:48 13	20:10 (8)	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:06	19:35 (8)	04:42		05:11	19:46 (8)	06:07		07:05	08:04	08:06	08:48
	16:36	17:40	18:37	20:38	21:35 42	20:17 (8)	22:08		21:48 40	20:26 (8)	20:46		19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	19:35 (8)	04:43		05:13	19:45 (8)	06:09		07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:37 41	20:16 (8)	22:08		21:46 41	20:26 (8)	20:43		19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	19:51 (8) 05:03	19:36 (8)	04:43		05:14	19:45 (8)	06:11		07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42 14	20:05 (8) 21:38 40	20:16 (8)	22:08		21:45 42	20:27 (8)	20:41		19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	19:47 (8) 05:02	19:37 (8)	04:43		05:16	19:44 (8)	06:12		07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44 21	20:08 (8) 21:40 39	20:16 (8)	22:08		21:43 43	20:27 (8)	20:39		19:20	18:05	16:08	15:57
25	08:29	07:26	06:16	05:58	19:44 (8) 05:00	19:37 (8)	04:43		05:17	19:45 (8)	06:14		07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46 25	20:09 (8) 21:41 37	20:14 (8)	22:08		21:42 43	20:28 (8)	20:36		19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	19:42 (8) 04:59	19:38 (8)	04:44		05:19	19:44 (8)	06:16		07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48 29	20:11 (8) 21:43 36	20:14 (8)	22:08		21:40 44	20:28 (8)	20:34		19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	19:41 (8) 04:58	19:39 (8)	04:44		05:21	19:44 (8)	06:18		07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50 32	20:13 (8) 21:44 35	20:14 (8)	22:08		21:38 44	20:28 (8)	20:31		19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	19:39 (8) 04:56	19:39 (8)	04:45		05:23	19:43 (8)	06:20		07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52 35	20:14 (8) 21:46 34	20:13 (8)	22:08		21:36 45	20:28 (8)	20:29		19:09	16:56	16:03	16:00
29	08:22		07:05	05:49	19:38 (8) 04:55	19:40 (8)	04:46		05:24	19:43 (8)	06:22		07:20	07:20	08:21	08:50
	16:52		19:53	20:54 37	20:15 (8) 21:47 33	20:13 (8)	22:08		21:35 46	20:29 (8)	20:26		19:07	16:54	16:02	16:00
30	08:20		07:03	05:47	19:37 (8) 04:54	19:41 (8)	04:46	20:01 (8)	05:26	19:42 (8)	06:24		07:22	07:22	08:23	08:50
	16:54		19:55	20:56 39	20:16 (8) 21:49 31	20:12 (8)	22:08 4	20:05 (8)	21:33 46	20:28 (8)	20:24		19:04	16:52	16:01	16:01
31	08:19		07:00		04:53	19:42 (8)			05:28	19:43 (8)	06:26			07:24		08:50
	16:56		19:57		21:50 30	20:12 (8)			21:31 46	20:29 (8)	20:21			16:50		16:02
Potential sun hours	243	269	366	423	501	519	521	465	383	326	253	225
Total, worst case				232	1288	228	997	758				
Sun reduction				0,39	0,52	0,48	0,49	0,52				
Oper. time red.				0,99	0,99	0,99	0,99	0,99				
Wind dir. red.				0,62	0,62	0,62	0,62	0,62				
Total reduction				0,24	0,32	0,30	0,30	0,32				
Total, real				56	410	68	298	240				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: R - Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March			April			May	June
1	08:50		10:21 (8)	08:17		10:43 (8)	07:16			06:58		19:10 (9)	05:45	04:52
	16:04	50	11:11 (8)	16:58	25	11:08 (8)	17:57			19:59	19	19:29 (9)	20:58	21:52
2	08:50		10:21 (8)	08:15		10:45 (8)	07:14			06:55		19:07 (9)	05:43	04:51
	16:05	50	11:11 (8)	17:00	21	11:06 (8)	17:59			20:01	24	19:31 (9)	21:00	21:53
3	08:50		10:22 (8)	08:13		10:49 (8)	07:11			06:53		19:05 (9)	05:41	04:50
	16:06	50	11:12 (8)	17:02	13	11:02 (8)	18:01			20:03	28	19:33 (9)	21:02	21:54
4	08:49		10:22 (8)	08:12		16:31 (7)	07:09			06:50		19:03 (9)	05:38	04:49
	16:08	50	11:12 (8)	17:04	1	16:32 (7)	18:03			20:05	31	19:34 (9)	21:04	21:55
5	08:49		10:23 (8)	08:10		16:29 (7)	07:07			06:48		19:02 (9)	05:36	04:48
	16:09	50	11:13 (8)	17:07	5	16:34 (7)	18:05			20:07	33	19:35 (9)	21:06	21:57
6	08:49		10:23 (8)	08:08		16:28 (7)	07:04			06:45		19:00 (9)	05:34	04:47
	16:10	50	11:13 (8)	17:09	9	16:37 (7)	18:07			20:09	35	19:35 (9)	21:08	21:58
7	08:48		10:23 (8)	08:06		16:28 (7)	07:02			06:42		19:00 (9)	05:32	04:46
	16:12	50	11:13 (8)	17:11	11	16:39 (7)	18:09			20:11	36	19:36 (9)	21:10	21:59
8	08:47		10:23 (8)	08:04		16:27 (7)	06:59			06:40		18:58 (9)	05:30	04:46
	16:13	50	11:13 (8)	17:13	15	16:42 (7)	18:11			20:13	38	19:36 (9)	21:12	22:00
9	08:47		10:25 (8)	08:02		16:26 (7)	06:57			06:37		18:58 (9)	05:28	04:45
	16:15	50	11:15 (8)	17:15	17	16:43 (7)	18:14			20:15	38	19:36 (9)	21:14	22:01
10	08:46		10:25 (8)	08:00		16:26 (7)	06:54			06:35		18:57 (9)	05:26	04:45
	16:16	50	11:15 (8)	17:17	20	16:46 (7)	18:16			20:17	39	19:36 (9)	21:15	22:02
11	08:45		10:25 (8)	07:58		16:26 (7)	06:51			06:32		18:57 (9)	05:24	04:44
	16:18	50	11:15 (8)	17:19	22	16:48 (7)	18:18			20:19	39	19:36 (9)	21:17	22:03
12	08:44		10:25 (8)	07:55		16:27 (7)	06:49			06:30		18:57 (9)	05:22	04:44
	16:19	50	11:15 (8)	17:21	22	16:49 (7)	18:20			20:21	40	19:37 (9)	21:19	22:03
13	08:44		10:26 (8)	07:53		16:26 (7)	06:46			06:27		18:56 (9)	05:20	04:43
	16:21	49	11:15 (8)	17:24	22	16:48 (7)	18:22			20:23	40	19:36 (9)	21:21	22:04
14	08:43		10:26 (8)	07:51		16:27 (7)	06:44			06:25		18:56 (9)	05:18	04:43
	16:23	50	11:16 (8)	17:26	21	16:48 (7)	18:24			20:25	40	19:36 (9)	21:23	22:05
15	08:42		10:27 (8)	07:49		16:28 (7)	06:41			06:22		18:56 (9)	05:17	04:43
	16:25	49	11:16 (8)	17:28	19	16:47 (7)	18:26			20:27	39	19:35 (9)	21:25	22:06
16	08:41		10:28 (8)	07:47		16:28 (7)	06:39			06:20		18:56 (9)	05:15	04:42
	16:26	49	11:17 (8)	17:30	18	16:46 (7)	18:28			20:29	39	19:35 (9)	21:26	22:06
17	08:39		10:28 (8)	07:44		16:30 (7)	06:36			06:18		18:57 (9)	05:13	04:42
	16:28	48	11:16 (8)	17:32	15	16:45 (7)	18:30			20:31	37	19:34 (9)	21:28	22:07
18	08:38		10:29 (8)	07:42		16:32 (7)	06:34			06:15		18:56 (9)	05:11	04:42
	16:30	48	11:17 (8)	17:34	11	16:43 (7)	18:32			20:33	37	19:33 (9)	21:30	22:07
19	08:37		10:29 (8)	07:40		16:35 (7)	06:31			06:13		18:57 (9)	05:10	04:42
	16:32	47	11:16 (8)	17:36	4	16:39 (7)	18:34			20:35	35	19:32 (9)	21:32	22:07
20	08:36		10:30 (8)	07:38			06:29			06:10		18:58 (9)	05:08	04:42
	16:34	47	11:17 (8)	17:38			18:36			20:37	33	19:31 (9)	21:33	22:08
21	08:34		10:30 (8)	07:35			06:26			06:08		18:58 (9)	05:06	04:42
	16:36	46	11:16 (8)	17:40			18:38			20:39	32	19:30 (9)	21:35	22:08
22	08:33		10:31 (8)	07:33			06:23			06:06		19:00 (9)	05:05	04:43
	16:38	46	11:17 (8)	17:43			18:39			20:41	29	19:29 (9)	21:37	22:08
23	08:32		10:32 (8)	07:31			06:21			06:03		19:01 (9)	05:03	04:43
	16:40	44	11:16 (8)	17:45			18:41			20:42	26	19:27 (9)	21:38	22:08
24	08:30		10:32 (8)	07:28			06:18			06:01		19:03 (9)	05:02	04:43
	16:42	44	11:16 (8)	17:47			18:43			20:44	23	19:26 (9)	21:40	22:09
25	08:29		10:34 (8)	07:26			06:16			05:58		19:04 (9)	05:00	04:43
	16:44	42	11:16 (8)	17:49			18:45			20:46	18	19:22 (9)	21:42	22:09
26	08:27		10:35 (8)	07:24			06:13			05:56		19:08 (9)	04:59	04:44
	16:46	40	11:15 (8)	17:51			18:47			20:48	11	19:19 (9)	21:43	22:09
27	08:26		10:35 (8)	07:21			06:11			05:54			04:58	04:44
	16:48	39	11:14 (8)	17:53			18:49			20:50			21:45	22:08
28	08:24		10:36 (8)	07:19			06:08			05:52			04:56	04:45
	16:50	37	11:13 (8)	17:55			18:51			20:52			21:46	22:08
29	08:22		10:38 (8)				07:05			05:49			04:55	04:46
	16:52	34	11:12 (8)				19:53			20:54			21:48	22:08
30	08:21		10:39 (8)				07:03			05:47			04:54	04:46
	16:54	32	11:11 (8)				19:55			20:56			21:49	22:08
31	08:19		10:41 (8)				07:00		19:14 (9)				04:53	
	16:56	29	11:10 (8)				19:57	12	19:26 (9)				21:50	
Potential sun hours	242			269			366			423			501	519
Total, worst case		1420			291			12			839			
Sun reduction		0,18			0,25			0,34			0,39			
Oper. time red.		0,99			0,99			0,99			0,99			
Wind dir. red.		0,64			0,64			0,63			0,63			
Total reduction		0,11			0,16			0,21			0,25			
Total, real		160			45			3			206			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: R - Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August			September			October			November			December		
1	04:47	05:30			06:28		18:56 (9)	07:24			07:26		15:56 (7)	08:24		10:08 (8)
	22:07	21:29			20:19	39	19:35 (9)	19:02			16:48	19	16:15 (7)	16:00	50	10:58 (8)
2	04:48	05:31			06:29		18:56 (9)	07:26			07:28		15:56 (7)	08:26		10:07 (8)
	22:07	21:27			20:16	39	19:35 (9)	18:59			16:46	16	16:12 (7)	15:59	50	10:57 (8)
3	04:48	05:33			06:31		18:56 (9)	07:28			07:30		15:57 (7)	08:28		10:08 (8)
	22:06	21:25			20:14	39	19:35 (9)	18:57			16:43	14	16:11 (7)	15:58	50	10:58 (8)
4	04:49	05:35			06:33		18:56 (9)	07:30			07:32		15:57 (7)	08:29		10:08 (8)
	22:06	21:23			20:11	38	19:34 (9)	18:54			16:41	11	16:08 (7)	15:58	50	10:58 (8)
5	04:50	05:37			06:35		18:56 (9)	07:32			07:34		15:58 (7)	08:31		10:08 (8)
	22:05	21:21			20:09	36	19:32 (9)	18:52			16:39	8	16:06 (7)	15:57	50	10:58 (8)
6	04:51	05:39			06:37		18:56 (9)	07:34			07:36		15:59 (7)	08:32		10:09 (8)
	22:05	21:19			20:06	35	19:31 (9)	18:49			16:37	5	16:04 (7)	15:56	50	10:59 (8)
7	04:52	05:41			06:39		18:57 (9)	07:36			07:39			08:34		10:09 (8)
	22:04	21:17			20:04	33	19:30 (9)	18:47			16:35			15:56	50	10:59 (8)
8	04:53	05:42			06:41		18:58 (9)	07:38			07:41		10:19 (8)	08:35		10:10 (8)
	22:03	21:15			20:01	31	19:29 (9)	18:44			16:33	14	10:33 (8)	15:55	50	11:00 (8)
9	04:55	05:44			06:43		18:59 (9)	07:40			07:43		10:16 (8)	08:36		10:10 (8)
	22:02	21:13			19:59	28	19:27 (9)	18:42			16:32	21	10:37 (8)	15:55	50	11:00 (8)
10	04:56	05:46			06:45		19:00 (9)	07:42			07:45		10:13 (8)	08:38		10:11 (8)
	22:01	21:11			19:56	24	19:24 (9)	18:39			16:30	26	10:39 (8)	15:54	50	11:01 (8)
11	04:57	05:48			06:46		19:02 (9)	07:44			07:47		10:12 (8)	08:39		10:11 (8)
	22:00	21:09			19:54	20	19:22 (9)	18:37			16:28	30	10:42 (8)	15:54	50	11:01 (8)
12	04:58	05:50			06:48		19:05 (9)	07:46			07:49		10:11 (8)	08:40		10:12 (8)
	21:59	21:07			19:51	13	19:18 (9)	18:34			16:26	32	10:43 (8)	15:54	49	11:01 (8)
13	04:59	05:52			06:50			07:48			07:51		10:09 (8)	08:41		10:12 (8)
	21:58	21:04			19:48			18:32			16:24	35	10:44 (8)	15:54	49	11:01 (8)
14	05:01	05:54			06:52			07:50			07:53		10:08 (8)	08:42		10:12 (8)
	21:57	21:02			19:46			18:29			16:23	37	10:45 (8)	15:54	49	11:01 (8)
15	05:02	05:55			06:54			07:52			07:55		10:08 (8)	08:43		10:13 (8)
	21:56	21:00			19:43			18:27			16:21	39	10:47 (8)	15:54	49	11:02 (8)
16	05:04	05:57			06:56			07:54			07:57		10:07 (8)	08:44		10:13 (8)
	21:55	20:58			19:41			18:24			16:19	41	10:48 (8)	15:54	49	11:02 (8)
17	05:05	05:59		19:13 (9)	06:58			07:56			07:59		10:07 (8)	08:45		10:14 (8)
	21:54	20:55	14	19:27 (9)	19:38			18:22			16:18	42	10:49 (8)	15:54	49	11:03 (8)
18	05:06	06:01		19:10 (9)	07:00			07:58			08:01		10:06 (8)	08:46		10:15 (8)
	21:52	20:53	19	19:29 (9)	19:35			18:19			16:16	44	10:50 (8)	15:54	48	11:03 (8)
19	05:08	06:03		19:08 (9)	07:01			08:00			08:03		10:06 (8)	08:46		10:16 (8)
	21:51	20:51	23	19:31 (9)	19:33			18:17			16:15	44	10:50 (8)	15:54	48	11:04 (8)
20	05:09	06:05		19:06 (9)	07:03			08:02			08:05		10:06 (8)	08:47		10:15 (8)
	21:49	20:48	27	19:33 (9)	19:30			18:15			16:13	46	10:52 (8)	15:55	49	11:04 (8)
21	05:11	06:07		19:04 (9)	07:05			08:04			08:07		10:06 (8)	08:48		10:16 (8)
	21:48	20:46	29	19:33 (9)	19:28			18:12			16:12	46	10:52 (8)	15:55	49	11:05 (8)
22	05:13	06:09		19:03 (9)	07:07			08:06			08:08		10:06 (8)	08:48		10:16 (8)
	21:46	20:44	31	19:34 (9)	19:25			18:10			16:10	47	10:53 (8)	15:55	49	11:05 (8)
23	05:14	06:11		19:02 (9)	07:09			08:08		17:04 (7)	08:10		10:06 (8)	08:49		10:17 (8)
	21:45	20:41	33	19:35 (9)	19:22			18:08	7	17:11 (7)	16:09	47	10:53 (8)	15:56	49	11:06 (8)
24	05:16	06:12		19:01 (9)	07:11			08:10		17:01 (7)	08:12		10:06 (8)	08:49		10:17 (8)
	21:43	20:39	35	19:36 (9)	19:20			18:05	12	17:13 (7)	16:08	48	10:54 (8)	15:57	49	11:06 (8)
25	05:17	06:14		19:00 (9)	07:13			07:12		15:59 (7)	08:14		10:06 (8)	08:50		10:18 (8)
	21:42	20:36	37	19:37 (9)	19:17			17:03	16	16:15 (7)	16:06	48	10:54 (8)	15:57	48	11:06 (8)
26	05:19	06:16		18:58 (9)	07:15			07:14		15:58 (7)	08:16		10:06 (8)	08:50		10:19 (8)
	21:40	20:34	38	19:36 (9)	19:15			17:01	18	16:16 (7)	16:05	49	10:55 (8)	15:58	49	11:08 (8)
27	05:21	06:18		18:58 (9)	07:17			07:16		15:57 (7)	08:18		10:06 (8)	08:50		10:19 (8)
	21:38	20:31	38	19:36 (9)	19:12			16:59	20	16:17 (7)	16:04	49	10:55 (8)	15:59	49	11:08 (8)
28	05:23	06:20		18:57 (9)	07:19			07:18		15:56 (7)	08:19		10:06 (8)	08:50		10:20 (8)
	21:37	20:29	40	19:37 (9)	19:10			16:56	21	16:17 (7)	16:03	50	10:56 (8)	16:00	49	11:09 (8)
29	05:24	06:22		18:57 (9)	07:20			07:20		15:55 (7)	08:21		10:07 (8)	08:50		10:20 (8)
	21:35	20:26	40	19:37 (9)	19:07			16:54	22	16:17 (7)	16:02	49	10:56 (8)	16:00	49	11:09 (8)
30	05:26	06:24		18:57 (9)	07:22			07:22		15:56 (7)	08:23		10:07 (8)	08:50		10:20 (8)
	21:33	20:24	40	19:37 (9)	19:04			16:52	22	16:18 (7)	16:01	50	10:57 (8)	16:01	49	11:09 (8)
31	05:28	06:26		18:56 (9)				07:24		15:56 (7)				08:50		10:20 (8)
	21:31	20:21	40	19:36 (9)				16:50	21	16:17 (7)				16:02	50	11:10 (8)
Potential sun hours	521	465			383			326			253			225		
Total, worst case			484			375			159			1007			1528	
Sun reduction			0,52			0,40			0,31			0,16			0,14	
Oper. time red.			0,99			0,99			0,99			0,99			0,99	
Wind dir. red.			0,63			0,63			0,65			0,64			0,64	
Total reduction			0,32			0,25			0,20			0,10			0,08	
Total, real			155			92			31			100			129	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: S - Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January		February		March	April	May	June
1	08:50		12:20 (10)	08:17	12:26 (10)	07:16	06:58	05:45	04:52
	16:04	65	13:25 (10)	16:58	99	16:16 (9)	17:57	19:59	20:58	21:52
2	08:50		12:19 (10)	08:15	12:27 (10)	07:14	06:55	05:43	04:51
	16:05	67	13:26 (10)	17:00	98	16:16 (9)	17:59	20:01	21:00	21:53
3	08:50		12:20 (10)	08:13	12:27 (10)	07:11	06:53	05:41	04:50
	16:06	67	13:27 (10)	17:02	96	16:16 (9)	18:01	20:03	21:02	21:54
4	08:49		12:20 (10)	08:12	12:28 (10)	07:09	06:50	05:38	04:49
	16:07	67	13:27 (10)	17:04	95	16:16 (9)	18:03	20:05	21:04	21:56
5	08:49		12:21 (10)	08:10	12:29 (10)	07:07	06:47	05:36	04:48
	16:09	67	13:28 (10)	17:06	92	16:15 (9)	18:05	20:07	21:06	21:57
6	08:49		12:21 (10)	08:08	12:29 (10)	07:04	06:45	05:34	04:47
	16:10	67	13:28 (10)	17:09	91	16:15 (9)	18:07	20:09	21:08	21:58
7	08:48		12:20 (10)	08:06	12:30 (10)	07:02	06:42	05:32	04:46
	16:12	69	13:29 (10)	17:11	88	16:15 (9)	18:09	20:11	21:10	21:59
8	08:47		12:22 (10)	08:04	12:31 (10)	06:59	06:40	05:30	04:46
	16:13	68	13:30 (10)	17:13	85	16:14 (9)	18:11	20:13	21:12	22:00
9	08:47		12:22 (10)	08:02	12:31 (10)	06:57	06:37	05:28	04:45
	16:15	69	13:31 (10)	17:15	79	16:11 (9)	18:13	20:15	21:14	22:01
10	08:46		12:22 (10)	08:00	12:33 (10)	06:54	06:35	05:26	04:44
	16:16	70	13:32 (10)	17:17	73	16:10 (9)	18:16	20:17	21:15	22:02
11	08:45		12:22 (10)	07:58	12:34 (10)	06:51	06:32	05:24	04:44
	16:18	70	13:32 (10)	17:19	60	13:34 (10)	18:18	20:19	21:17	22:03
12	08:45		12:22 (10)	07:55	12:35 (10)	06:49	06:30	05:22	04:44
	16:19	71	13:33 (10)	17:21	58	13:33 (10)	18:20	20:21	21:19	22:04
13	08:44		12:21 (10)	07:53	12:36 (10)	06:46	06:27	05:20	04:43
	16:21	72	13:33 (10)	17:23	55	13:31 (10)	18:22	20:23	21:21	22:04
14	08:43		12:22 (10)	07:51	12:38 (10)	06:44	06:25	05:18	04:43
	16:23	71	13:33 (10)	17:26	52	13:30 (10)	18:24	20:25	21:23	22:05
15	08:42		12:22 (10)	07:49	12:40 (10)	06:41	06:22	05:17	04:43
	16:25	72	13:34 (10)	17:28	49	13:29 (10)	18:26	20:27	21:25	22:06
16	08:41		12:23 (10)	07:47	12:41 (10)	06:39	06:20	05:15	04:42
	16:26	72	13:35 (10)	17:30	45	13:26 (10)	18:28	20:29	21:26	22:06
17	08:40		12:22 (10)	07:44	12:44 (10)	06:36	06:18	05:13	04:42
	16:28	73	13:35 (10)	17:32	40	13:24 (10)	18:30	20:31	21:28	22:07
18	08:38		12:23 (10)	07:42	12:47 (10)	06:34	06:15	05:11	04:42
	16:30	73	13:36 (10)	17:34	35	13:22 (10)	18:32	20:33	21:30	22:07
19	08:37		12:22 (10)	07:40	12:50 (10)	06:31	06:13	05:10	04:42
	16:32	74	13:36 (10)	17:36	28	13:18 (10)	18:34	20:35	21:32	22:08
20	08:36		12:23 (10)	07:38	12:56 (10)	06:29	06:10	05:08	04:42
	16:34	74	13:37 (10)	17:38	16	13:12 (10)	18:36	20:37	21:33	22:08
21	08:35		12:23 (10)	07:35		06:26	06:08	05:06	04:42
	16:36	78	15:59 (9)	17:40		18:37	20:39	21:35	22:08
22	08:33		12:24 (10)	07:33		06:23	06:05	05:05	04:42
	16:38	82	16:02 (9)	17:43		18:39	20:41	21:37	22:08
23	08:32		12:24 (10)	07:31		06:21	06:03	05:03	04:43
	16:40	85	16:04 (9)	17:45		18:41	20:43	21:38	22:09
24	08:30		12:24 (10)	07:28		06:18	06:01	05:02	04:43
	16:42	88	16:06 (9)	17:47		18:43	20:44	21:40	22:09
25	08:29		12:25 (10)	07:26		06:16	05:58	05:00	04:43
	16:44	91	16:09 (9)	17:49		18:45	20:46	21:42	22:09
26	08:27		12:25 (10)	07:24		06:13	05:56	04:59	04:44
	16:46	94	16:11 (9)	17:51		18:47	20:48	21:43	22:09
27	08:26		12:25 (10)	07:21		06:11	05:54	04:58	04:44
	16:48	96	16:13 (9)	17:53		18:49	20:50	21:45	22:08
28	08:24		12:25 (10)	07:19		06:08	05:52	04:56	04:45
	16:50	98	16:14 (9)	17:55		18:51	20:52	21:46	22:08
29	08:22		12:25 (10)			07:05	05:49	04:55	04:45
	16:52	99	16:15 (9)			19:53	20:54	21:48	22:08
30	08:21		12:25 (10)			07:03	05:47	04:54	04:46
	16:54	99	16:15 (9)			19:55	20:56	21:49	22:08
31	08:19		12:26 (10)			07:00		04:53	
	16:56	99	16:16 (9)			19:57		21:50	
Potential sun hours	242			269		366	423	501	519
Total, worst case		2407			1334				
Sun reduction		0,18			0,25				
Oper. time red.		0,99			0,99				
Wind dir. red.		0,65			0,65				
Total reduction		0,12			0,16				
Total, real		277			208				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: S - Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October			November			December		
1	04:47	05:30	06:28	07:24			07:26		12:02 (10)	08:25		12:04 (10)
	22:07	21:29	20:19	19:02			16:48	75	15:40 (9)	16:00	70	13:14 (10)
2	04:48	05:31	06:29	07:26			07:28		12:01 (10)	08:26		12:04 (10)
	22:07	21:27	20:16	18:59			16:46	79	15:41 (9)	15:59	70	13:14 (10)
3	04:48	05:33	06:31	07:28			07:30		12:01 (10)	08:28		12:05 (10)
	22:07	21:25	20:14	18:57			16:43	85	15:44 (9)	15:58	69	13:14 (10)
4	04:49	05:35	06:33	07:30			07:32		12:00 (10)	08:29		12:06 (10)
	22:06	21:23	20:11	18:54			16:41	87	15:44 (9)	15:58	69	13:15 (10)
5	04:50	05:37	06:35	07:32			07:34		11:59 (10)	08:31		12:06 (10)
	22:05	21:21	20:09	18:52			16:39	91	15:45 (9)	15:57	68	13:14 (10)
6	04:51	05:39	06:37	07:34			07:36		11:58 (10)	08:32		12:07 (10)
	22:05	21:19	20:06	18:49			16:37	93	15:45 (9)	15:56	68	13:15 (10)
7	04:52	05:40	06:39	07:36			07:39		11:59 (10)	08:34		12:08 (10)
	22:04	21:17	20:04	18:47			16:35	95	15:47 (9)	15:56	67	13:15 (10)
8	04:53	05:42	06:41	07:38			07:41		11:58 (10)	08:35		12:08 (10)
	22:03	21:15	20:01	18:44			16:33	97	15:47 (9)	15:55	67	13:15 (10)
9	04:54	05:44	06:43	07:40			07:43		11:57 (10)	08:36		12:08 (10)
	22:02	21:13	19:59	18:42			16:32	98	15:47 (9)	15:55	67	13:15 (10)
10	04:56	05:46	06:45	07:42			07:45		11:57 (10)	08:38		12:09 (10)
	22:01	21:11	19:56	18:39			16:30	98	15:47 (9)	15:54	67	13:16 (10)
11	04:57	05:48	06:46	07:44			07:47		11:58 (10)	08:39		12:10 (10)
	22:00	21:09	19:54	18:37			16:28	98	15:47 (9)	15:54	66	13:16 (10)
12	04:58	05:50	06:48	07:46			07:49		11:57 (10)	08:40		12:10 (10)
	21:59	21:07	19:51	18:34			16:26	99	15:47 (9)	15:54	66	13:16 (10)
13	04:59	05:52	06:50	07:48			07:51		11:57 (10)	08:41		12:11 (10)
	21:58	21:04	19:48	18:32			16:24	99	15:47 (9)	15:54	65	13:16 (10)
14	05:01	05:54	06:52	07:50			07:53		11:57 (10)	08:42		12:12 (10)
	21:57	21:02	19:46	18:29			16:23	98	15:46 (9)	15:54	65	13:17 (10)
15	05:02	05:55	06:54	07:52			07:55		11:58 (10)	08:43		12:13 (10)
	21:56	21:00	19:43	18:27			16:21	96	15:46 (9)	15:54	64	13:17 (10)
16	05:03	05:57	06:56	07:54			07:57		11:58 (10)	08:44		12:12 (10)
	21:55	20:58	19:41	18:24			16:19	94	15:44 (9)	15:54	65	13:17 (10)
17	05:05	05:59	06:58	07:56			07:59		11:58 (10)	08:45		12:13 (10)
	21:54	20:55	19:38	18:22			16:18	91	15:42 (9)	15:54	64	13:17 (10)
18	05:06	06:01	07:00	07:58			08:01		11:58 (10)	08:46		12:14 (10)
	21:52	20:53	19:35	18:19			16:16	88	15:40 (9)	15:54	64	13:18 (10)
19	05:08	06:03	07:01	08:00			08:03		11:58 (10)	08:46		12:15 (10)
	21:51	20:51	19:33	18:17			16:14	85	15:38 (9)	15:54	63	13:18 (10)
20	05:09	06:05	07:03	08:02			08:05		11:59 (10)	08:47		12:15 (10)
	21:49	20:48	19:30	18:15			16:13	82	15:37 (9)	15:55	64	13:19 (10)
21	05:11	06:07	07:05	08:04			08:07		11:59 (10)	08:48		12:15 (10)
	21:48	20:46	19:28	18:12			16:12	78	15:35 (9)	15:55	64	13:19 (10)
22	05:12	06:09	07:07	08:06		13:25 (10)	08:08		11:59 (10)	08:48		12:16 (10)
	21:47	20:44	19:25	18:10	20	13:45 (10)	16:10	74	13:13 (10)	15:55	64	13:20 (10)
23	05:14	06:11	07:09	08:08		13:19 (10)	08:10		12:00 (10)	08:49		12:16 (10)
	21:45	20:41	19:22	18:08	30	13:49 (10)	16:09	73	13:13 (10)	15:56	64	13:20 (10)
24	05:16	06:12	07:11	08:10		13:16 (10)	08:12		12:00 (10)	08:49		12:16 (10)
	21:43	20:39	19:20	18:05	36	13:52 (10)	16:07	73	13:13 (10)	15:56	64	13:20 (10)
25	05:17	06:14	07:13	07:12		12:14 (10)	08:14		12:00 (10)	08:50		12:18 (10)
	21:42	20:36	19:17	17:03	41	12:55 (10)	16:06	73	13:13 (10)	15:57	64	13:22 (10)
26	05:19	06:16	07:15	07:14		12:11 (10)	08:16		12:01 (10)	08:50		12:18 (10)
	21:40	20:34	19:15	17:01	46	12:57 (10)	16:05	72	13:13 (10)	15:58	64	13:22 (10)
27	05:21	06:18	07:17	07:16		12:09 (10)	08:18		12:01 (10)	08:50		12:18 (10)
	21:38	20:31	19:12	16:59	50	12:59 (10)	16:04	72	13:13 (10)	15:59	64	13:22 (10)
28	05:22	06:20	07:19	07:18		12:07 (10)	08:19		12:02 (10)	08:50		12:19 (10)
	21:37	20:29	19:10	16:56	53	13:00 (10)	16:03	72	13:14 (10)	15:59	64	13:23 (10)
29	05:24	06:22	07:20	07:20		12:05 (10)	08:21		12:03 (10)	08:50		12:19 (10)
	21:35	20:26	19:07	16:54	56	13:01 (10)	16:02	71	13:14 (10)	16:00	65	13:24 (10)
30	05:26	06:24	07:22	07:22		12:05 (10)	08:23		12:03 (10)	08:50		12:19 (10)
	21:33	20:24	19:04	16:52	58	13:03 (10)	16:01	71	13:14 (10)	16:01	65	13:24 (10)
31	05:28	06:26		07:24		12:03 (10)				08:50		12:19 (10)
	21:31	20:21		16:50	63	15:35 (9)				16:02	65	13:24 (10)
Potential sun hours	521	465	383	326			253			225		
Total, worst case					453			2557			2035	
Sun reduction					0,31			0,16			0,14	
Oper. time red.					0,99			0,99			0,99	
Wind dir. red.					0,65			0,65			0,65	
Total reduction					0,20			0,10			0,09	
Total, real					89			257			176	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: T - Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February		March			April		May	June
1	08:50		14:42 (8)	08:17		07:16			06:58		05:45	04:52
	16:04	16	14:58 (8)	16:58		17:57			19:59		20:58	21:52
2	08:50		14:42 (8)	08:15		07:14			06:55		05:43	04:51
	16:05	15	14:57 (8)	17:00		17:59			20:01		21:00	21:53
3	08:50		14:43 (8)	08:13		07:11			06:52		05:40	04:50
	16:06	15	14:58 (8)	17:02		18:01			20:03		21:02	21:54
4	08:49		14:44 (8)	08:11		07:09			06:50		05:38	04:49
	16:07	13	14:57 (8)	17:04		18:03			20:05		21:04	21:55
5	08:49		14:46 (8)	08:10		07:06		17:28 (10)	06:47		05:36	04:48
	16:09	12	14:58 (8)	17:06		18:05	9	17:37 (10)	20:07		21:06	21:57
6	08:48		14:47 (8)	08:08		07:04		17:25 (10)	06:45		05:34	04:47
	16:10	10	14:57 (8)	17:09		18:07	15	17:40 (10)	20:09		21:08	21:58
7	08:48		14:48 (8)	08:06		07:01		17:23 (10)	06:42		05:32	04:46
	16:12	8	14:56 (8)	17:11		18:09	18	17:41 (10)	20:11		21:10	21:59
8	08:47		14:51 (8)	08:04		06:59		17:22 (10)	06:40		05:30	04:46
	16:13	3	14:54 (8)	17:13		18:11	22	17:44 (10)	20:13		21:12	22:00
9	08:47			08:02		06:56		17:20 (10)	06:37		05:28	04:45
	16:15			17:15		18:13	26	17:46 (10)	20:15		21:13	22:01
10	08:46			08:00		06:54		17:19 (10)	06:35		05:26	04:44
	16:16			17:17		18:15	28	17:47 (10)	20:17		21:15	22:02
11	08:45			07:57		06:51		17:18 (10)	06:32		05:24	04:44
	16:18			17:19		18:17	29	17:47 (10)	20:19		21:17	22:03
12	08:44			07:55		06:49		17:18 (10)	06:30		05:22	04:43
	16:19			17:21		18:19	30	17:48 (10)	20:21		21:19	22:03
13	08:44			07:53		06:46		17:17 (10)	06:27		05:20	04:43
	16:21			17:23		18:21	31	17:48 (10)	20:23		21:21	22:04
14	08:43			07:51		06:44		17:16 (10)	06:25		05:18	04:43
	16:23			17:26		18:23	31	17:47 (10)	20:25		21:23	22:05
15	08:42			07:49		06:41		17:16 (10)	06:22		05:16	04:42
	16:24			17:28		18:25	32	17:48 (10)	20:27		21:25	22:06
16	08:41			07:47		06:39		17:16 (10)	06:20		05:15	04:42
	16:26			17:30		18:27	31	17:47 (10)	20:29		21:26	22:06
17	08:39			07:44		06:36		17:16 (10)	06:17		05:13	04:42
	16:28			17:32		18:29	31	17:47 (10)	20:31		21:28	22:07
18	08:38			07:42		06:34		17:16 (10)	06:15		05:11	04:42
	16:30			17:34		18:31	29	17:45 (10)	20:33		21:30	22:07
19	08:37			07:40		06:31		17:16 (10)	06:13		05:10	04:42
	16:32			17:36		18:33	28	17:44 (10)	20:35		21:32	22:07
20	08:36			07:38		06:28		17:18 (10)	06:10		05:08	04:42
	16:34			17:38		18:35	25	17:43 (10)	20:37		21:33	22:08
21	08:34			07:35		06:26		17:18 (10)	06:08		05:06	04:42
	16:36			17:40		18:37	23	17:41 (10)	20:38		21:35	22:08
22	08:33			07:33		06:23		17:20 (10)	06:05		05:05	04:42
	16:38			17:42		18:39	20	17:40 (10)	20:40		21:37	22:08
23	08:32			07:31		06:21		17:22 (10)	06:03		05:03	04:43
	16:40			17:45		18:41	15	17:37 (10)	20:42		21:38	22:08
24	08:30			07:28		06:18		17:25 (10)	06:01		05:02	04:43
	16:42			17:47		18:43	7	17:32 (10)	20:44		21:40	22:09
25	08:29			07:26		06:16			05:58		05:00	04:43
	16:44			17:49		18:45			20:46		21:41	22:09
26	08:27			07:23		06:13			05:56		04:59	04:44
	16:46			17:51		18:47			20:48		21:43	22:08
27	08:26			07:21		06:10			05:54		04:58	04:44
	16:48			17:53		18:49			20:50		21:45	22:08
28	08:24			07:19		06:08			05:51		04:56	04:45
	16:50			17:55		18:51			20:52		21:46	22:08
29	08:22					07:05			05:49		04:55	04:45
	16:52					19:53			20:54		21:48	22:08
30	08:21					07:03			05:47		04:54	04:46
	16:54					19:55			20:56		21:49	22:08
31	08:19					07:00					04:53	
	16:56					19:57					21:50	
Potential sun hours	242			269		366			423		501	519
Total, worst case		92					480					
Sun reduction		0,18					0,34					
Oper. time red.		0,99					0,99					
Wind dir. red.		0,65					0,62					
Total reduction		0,12					0,21					
Total, real		11					101					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Planuojamos VE Shadow receptor: T - Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September		October		November	December		
1	04:47	05:29	06:27		07:24		17:57 (10)	07:26	08:24	
	22:07	21:29	20:19		19:02	30	18:27 (10)	16:48	16:00	
2	04:48	05:31	06:29		07:26		17:57 (10)	07:28	08:26	
	22:07	21:27	20:16		18:59	30	18:27 (10)	16:45	15:59	
3	04:48	05:33	06:31		07:28		17:57 (10)	07:30	08:28	
	22:06	21:25	20:14		18:57	29	18:26 (10)	16:43	15:58	
4	04:49	05:35	06:33		07:30		17:57 (10)	07:32	08:29	14:36 (8)
	22:06	21:23	20:11		18:54	28	18:25 (10)	16:41	15:57	3 14:39 (8)
5	04:50	05:37	06:35		07:32		17:58 (10)	07:34	08:31	14:33 (8)
	22:05	21:21	20:09		18:52	24	18:22 (10)	16:39	15:57	8 14:41 (8)
6	04:51	05:39	06:37		07:34		17:59 (10)	07:36	08:32	14:33 (8)
	22:05	21:19	20:06		18:49	20	18:19 (10)	16:37	15:56	10 14:43 (8)
7	04:52	05:40	06:39		07:36		18:01 (10)	07:38	08:34	14:32 (8)
	22:04	21:17	20:04		18:46	16	18:17 (10)	16:35	15:56	12 14:44 (8)
8	04:53	05:42	06:41		07:38		18:03 (10)	07:40	08:35	14:32 (8)
	22:03	21:15	20:01		18:44	11	18:14 (10)	16:33	15:55	13 14:45 (8)
9	04:54	05:44	06:43		07:40		18:07 (10)	07:43	08:36	14:32 (8)
	22:02	21:13	19:59		18:41	5	18:12 (10)	16:31	15:55	14 14:46 (8)
10	04:56	05:46	06:44		07:42			07:45	08:37	14:32 (8)
	22:01	21:11	19:56		18:39			16:30	15:54	15 14:47 (8)
11	04:57	05:48	06:46		07:44			07:47	08:39	14:32 (8)
	22:00	21:09	19:53		18:36			16:28	15:54	16 14:48 (8)
12	04:58	05:50	06:48		07:46			07:49	08:40	14:32 (8)
	21:59	21:06	19:51		18:34			16:26	15:54	16 14:48 (8)
13	04:59	05:52	06:50		07:48			07:51	08:41	14:32 (8)
	21:58	21:04	19:48		18:32			16:24	15:54	17 14:49 (8)
14	05:01	05:53	06:52		07:50			07:53	08:42	14:32 (8)
	21:57	21:02	19:46		18:29			16:22	15:54	18 14:50 (8)
15	05:02	05:55	06:54		07:52			07:55	08:43	14:32 (8)
	21:56	21:00	19:43		18:27			16:21	15:54	18 14:50 (8)
16	05:03	05:57	06:56		07:54			07:57	08:44	14:33 (8)
	21:55	20:57	19:41		18:24			16:19	15:54	18 14:51 (8)
17	05:05	05:59	06:58		07:56			07:59	08:45	14:33 (8)
	21:53	20:55	19:38		18:22			16:17	15:54	19 14:52 (8)
18	05:06	06:01	06:59		07:58			08:01	08:46	14:34 (8)
	21:52	20:53	19:35		18:19			16:16	15:54	18 14:52 (8)
19	05:08	06:03	07:01	18:16 (10)	08:00			08:03	08:46	14:34 (8)
	21:51	20:51	19:33	1 18:17 (10)	18:17			16:14	15:54	19 14:53 (8)
20	05:09	06:05	07:03	18:09 (10)	08:02			08:05	08:47	14:34 (8)
	21:49	20:48	19:30	14 18:23 (10)	18:15			16:13	15:54	19 14:53 (8)
21	05:11	06:07	07:05	18:06 (10)	08:04			08:06	08:48	14:35 (8)
	21:48	20:46	19:28	19 18:25 (10)	18:12			16:11	15:55	19 14:54 (8)
22	05:12	06:09	07:07	18:03 (10)	08:06			08:08	08:48	14:35 (8)
	21:46	20:43	19:25	23 18:26 (10)	18:10			16:10	15:55	19 14:54 (8)
23	05:14	06:10	07:09	18:02 (10)	08:08			08:10	08:49	14:36 (8)
	21:45	20:41	19:22	25 18:27 (10)	18:08			16:09	15:56	19 14:55 (8)
24	05:16	06:12	07:11	18:00 (10)	08:10			08:12	08:49	14:36 (8)
	21:43	20:39	19:20	27 18:27 (10)	18:05			16:07	15:56	19 14:55 (8)
25	05:17	06:14	07:13	17:59 (10)	07:12			08:14	08:49	14:36 (8)
	21:42	20:36	19:17	29 18:28 (10)	17:03			16:06	15:57	19 14:55 (8)
26	05:19	06:16	07:15	17:58 (10)	07:14			08:16	08:50	14:38 (8)
	21:40	20:34	19:15	30 18:28 (10)	17:01			16:05	15:58	18 14:56 (8)
27	05:21	06:18	07:17	17:58 (10)	07:16			08:18	08:50	14:38 (8)
	21:38	20:31	19:12	30 18:28 (10)	16:58			16:04	15:59	19 14:57 (8)
28	05:22	06:20	07:18	17:57 (10)	07:18			08:19	08:50	14:39 (8)
	21:37	20:29	19:09	31 18:28 (10)	16:56			16:03	15:59	18 14:57 (8)
29	05:24	06:22	07:20	17:57 (10)	07:20			08:21	08:50	14:40 (8)
	21:35	20:26	19:07	31 18:28 (10)	16:54			16:02	16:00	17 14:57 (8)
30	05:26	06:24	07:22	17:57 (10)	07:22			08:23	08:50	14:39 (8)
	21:33	20:24	19:04	31 18:28 (10)	16:52			16:01	16:01	18 14:57 (8)
31	05:28	06:26			07:24				08:50	14:40 (8)
	21:31	20:21			16:50				16:02	17 14:57 (8)
Potential sun hours	521	465	383		326		253	225		
Total, worst case			291		193			455		
Sun reduction			0,40		0,31			0,14		
Oper. time red.			0,99		0,99			0,99		
Wind dir. red.			0,62		0,62			0,65		
Total reduction			0,24		0,19			0,09		
Total, real			71		36			40		

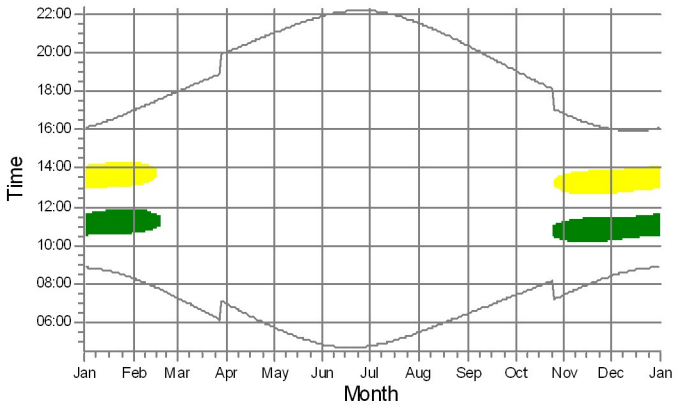
Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

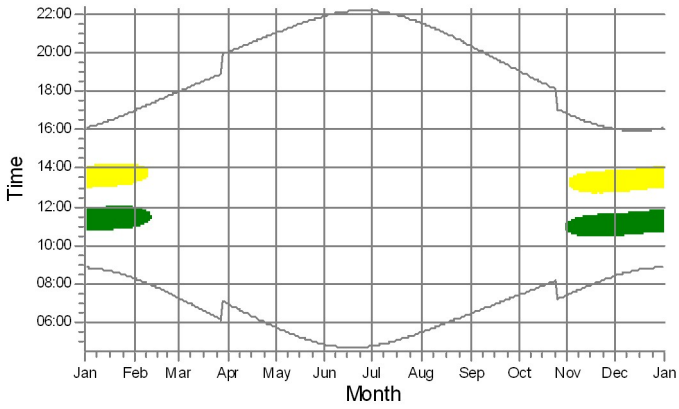
SHADOW - Calendar, graphical

Calculation: Planuojamos VE

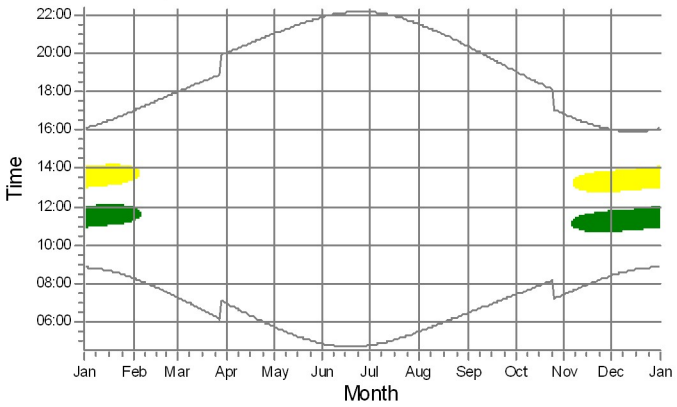
A: Gyvenamasis pastatas: Barsukinės k. 8, Žeimių sen., Jonavos r. sav. (



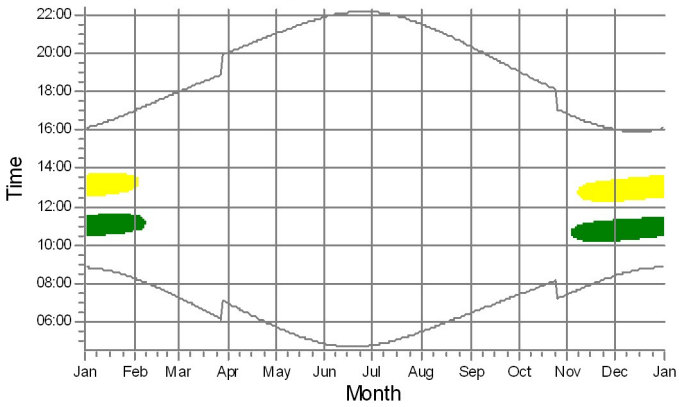
B: Gyvenamasis pastatas: Barsukinės k. 6, Žeimių sen., Jonavos r. sav. (



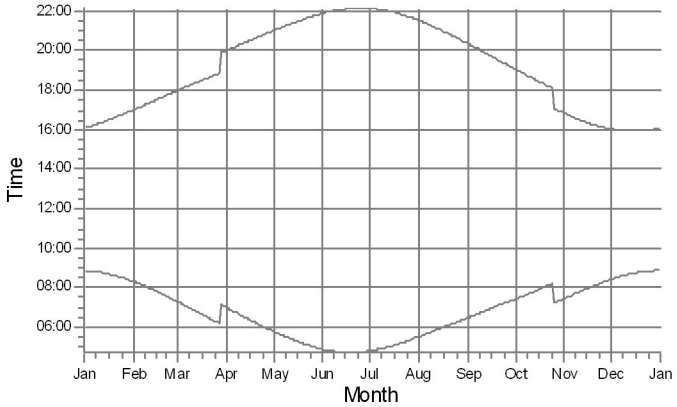
C: Gyvenamasis pastatas: Barsukinės k. 4, Žeimių sen., Jonavos r. sav. (



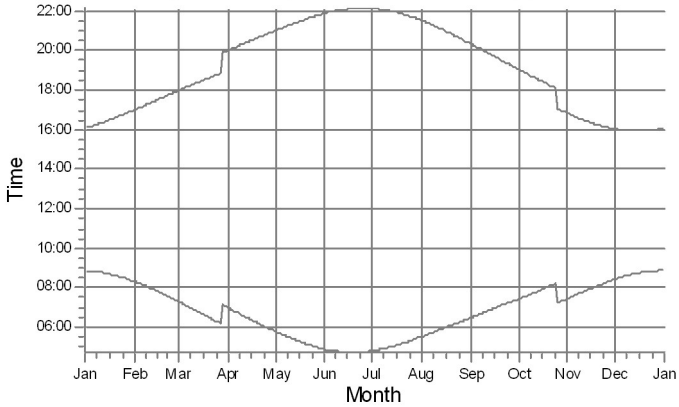
D: Gyvenamasis pastatas: Neturi adreso (4)



E: Gyvenamasis pastatas: Neturi adreso (5)



F: Gyvenamasis pastatas: Neturi adreso (6)



WTGs

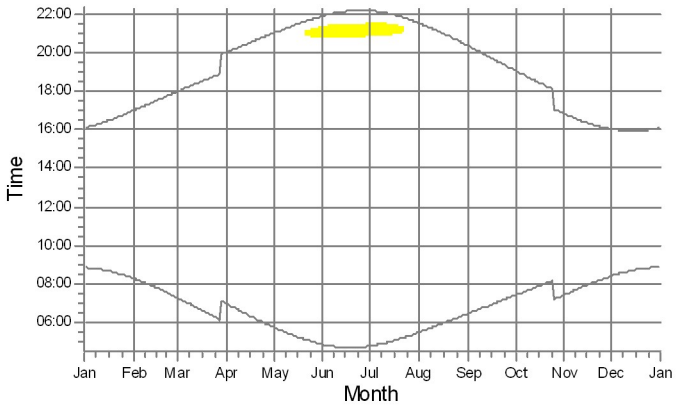
1: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)

2: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)

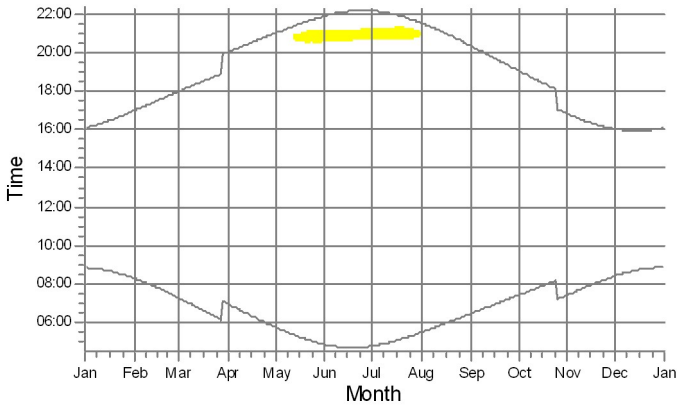
SHADOW - Calendar, graphical

Calculation: Planuojamos VE

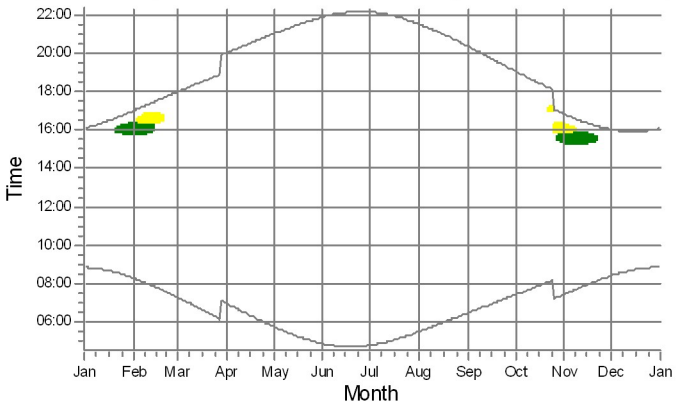
G: Gyvenamasis pastatas: Šviesos g. 1A, Naujasodžio k., Žeimių sen., Jo



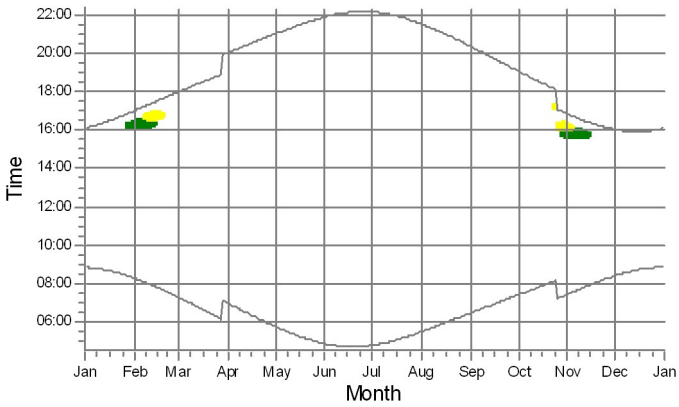
H: Gyvenamasis pastatas: Šviesos g. 2, Naujasodžio k., Žeimių sen., Jona



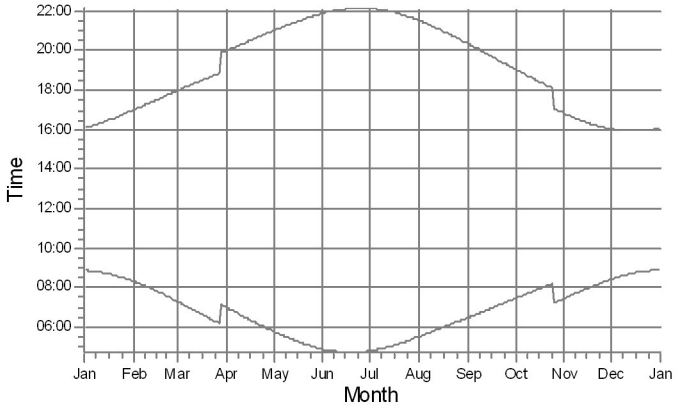
I: Gyvenamasis pastatas: Barsukinės k. 2, Žeimių sen., Jonavos r. sav. (9



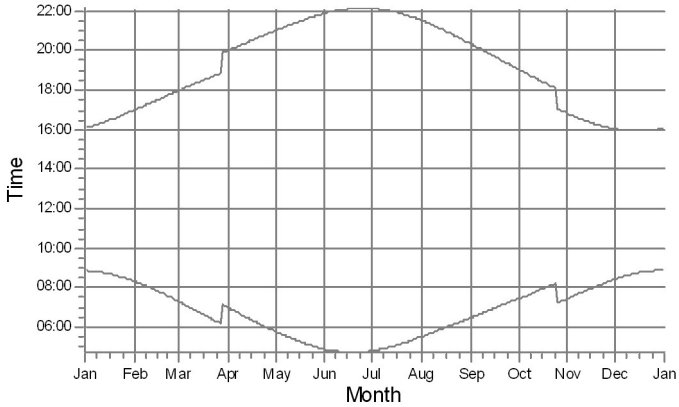
J: Gyvenamasis pastatas: Barsukinės k. 1, Žeimių sen., Jonavos r. sav. (1



K: Gyvenamasis pastatas: Paduobių k. 4, Žeimių sen., Jonavos r. sav. (11



L: Gyvenamasis pastatas: Paduobių k. 7, Žeimių sen., Jonavos r. sav. (12



WTGs

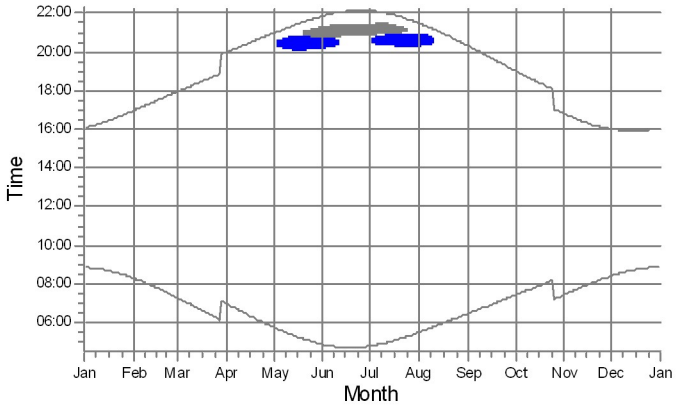
1: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)

2: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)

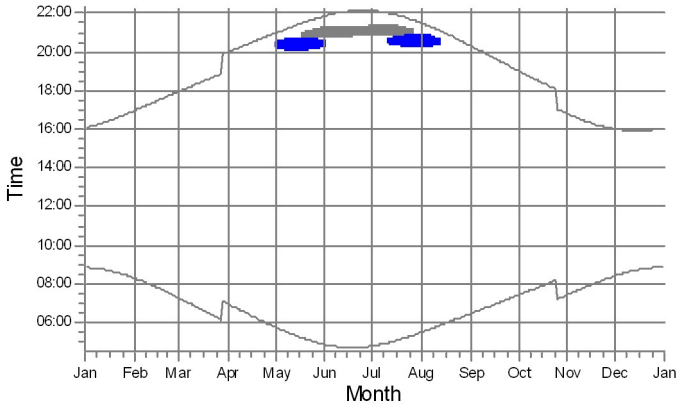
SHADOW - Calendar, graphical

Calculation: Planuojamos VE

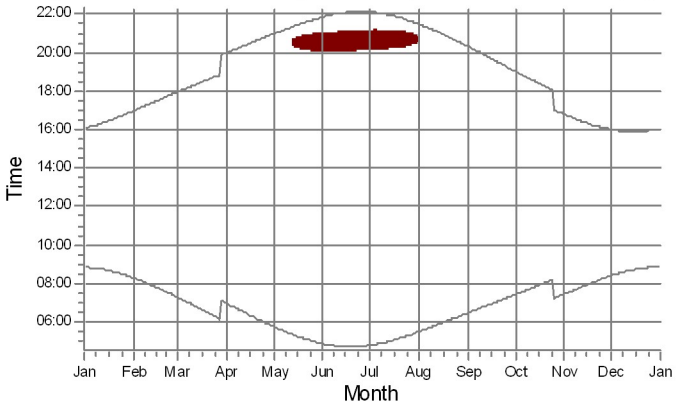
M: Gyvenamasis pastatas: Blauzdžių k. 14, Žeimių sen., Jonavos r. sav. (



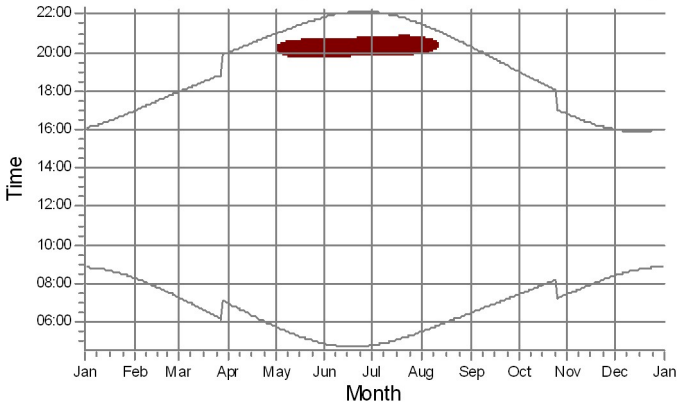
N: Gyvenamasis pastatas: Blauzdžių k. 12, Žeimių sen., Jonavos r. sav. (



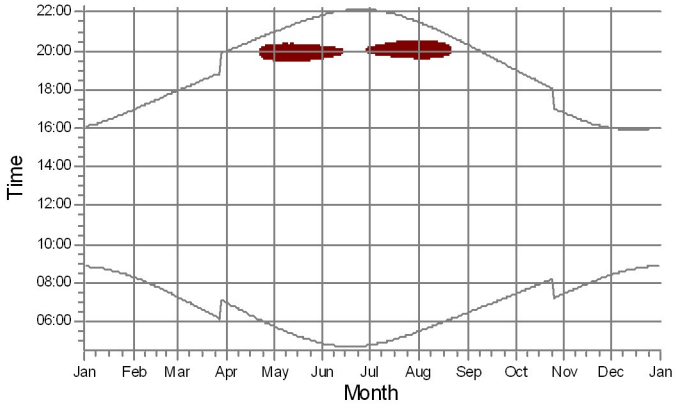
O: Gyvenamasis pastatas: Aklių k. 3, Žeimių sen., Jonavos r. sav. (15)



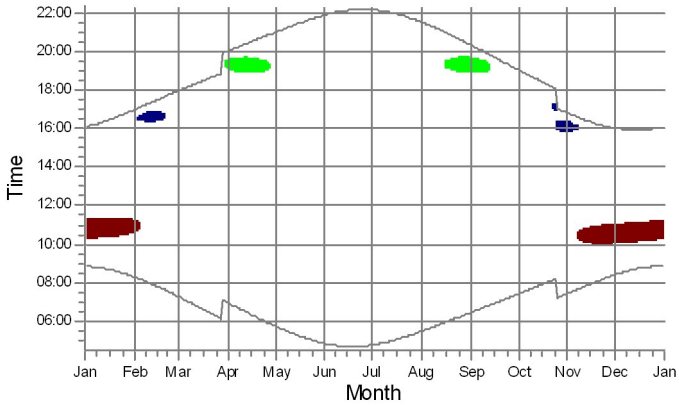
P: Gyvenamasis pastatas: Aklių k. 2, Žeimių sen., Jonavos r. sav. (16)



Q: Gyvenamasis pastatas: Aklių k. 5, Žeimių sen., Jonavos r. sav. (17)



R: Gyvenamasis pastatas: Aklių k. 8, Žeimių sen., Jonavos r. sav. (18)



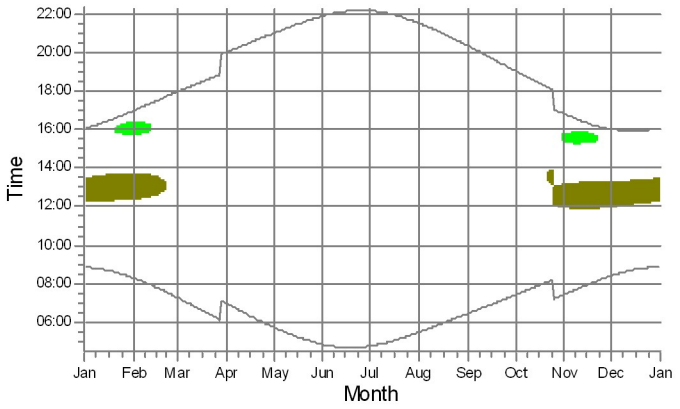
WTGs

3: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (17)	8: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)
4: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (18)	9: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)
7: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (21)	

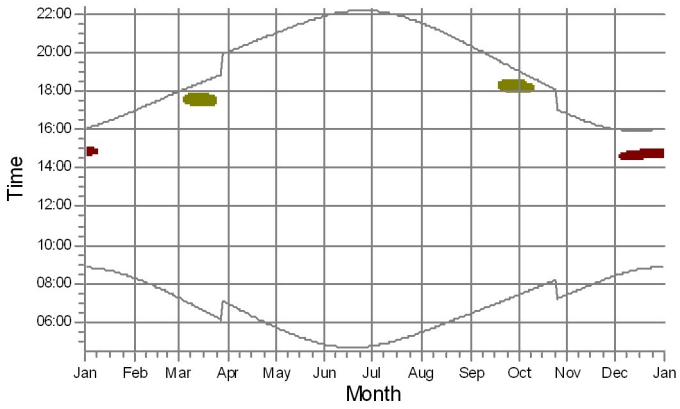
SHADOW - Calendar, graphical

Calculation: Planuojamos VE

S: Gyvenamasis pastatas: Normainėlių k. 1, Žeimių sen., Jonavos r. sav. (



T: Gyvenamasis pastatas: Normainėlių l k. 3, Žeimių sen., Jonavos r. sav.



WTGs

8: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)

9: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)

10: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (25)

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 1 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January		February		March	April	May	June
1	08:50	10:33-11:56/83	08:17	15:48-16:25/37	07:17	06:58	05:46	04:53
	16:05		16:59	10:44-11:53/69	17:58	20:00	20:58	21:52
2	08:50	10:33-11:56/83	08:16	15:48-16:27/39	07:14	06:56	05:44	04:52
	16:06		17:01	10:45-11:52/67	18:00	20:02	21:00	21:53
3	08:50	10:33-11:57/84	08:14	15:49-16:28/39	07:12	06:53	05:41	04:51
	16:07		17:03	10:45-11:50/65	18:02	20:04	21:02	21:54
4	08:49	10:33-11:57/84	08:12	15:49-16:29/40	07:09	06:51	05:39	04:50
	16:09		17:05	10:45-11:49/64	18:04	20:06	21:04	21:56
5	08:49	10:34-11:58/84	08:10	15:49-16:29/40	07:07	06:48	05:37	04:49
	16:10		17:07	10:46-11:47/61	18:06	20:07	21:06	21:57
6	08:49	10:34-11:58/84	08:08	15:50-16:29/39	07:04	06:46	05:35	04:48
	16:11		17:09	10:47-11:46/59	18:08	20:09	21:08	21:58
7	08:48	10:34-11:58/84	08:06	15:50-16:29/39	07:02	06:43	05:33	04:48
	16:13		17:12	10:48-11:44/56	18:10	20:11	21:10	21:59
8	08:48	10:35-11:59/84	08:04	15:51-16:29/38	06:59	06:41	05:31	04:47
	16:14		17:14	10:49-11:42/53	18:12	20:13	21:12	22:00
9	08:47	10:36-12:00/84	08:02	15:52-16:29/37	06:57	06:38	05:29	04:46
	16:16		17:16	10:50-11:41/51	18:14	20:15	21:14	22:01
10	08:46	10:36-12:00/84	08:00	15:53-16:27/34	06:54	06:36	05:27	04:46
	16:17		17:18	10:51-11:39/48	18:16	20:17	21:16	22:02
11	08:45	10:36-12:00/84	07:58	15:54-16:27/33	06:52	06:33	05:25	04:45
	16:19		17:20	10:52-11:38/46	18:18	20:19	21:17	22:03
12	08:45	10:37-12:01/84	07:56	15:56-16:26/30	06:49	06:31	05:23	04:45
	16:20		17:22	10:54-11:36/42	18:20	20:21	21:19	22:03
13	08:44	10:36-12:00/84	07:54	16:12-16:24/12 10:56-11:35/39	06:47	06:28	05:21	04:44
	16:22		17:24	15:59-16:10/11	18:22	20:23	21:21	22:04
14	08:43	10:37-12:00/83	07:51	16:16-16:19/3	06:44	06:26	05:19	04:44
	16:24		17:26	10:58-11:31/33	18:24	20:25	21:23	22:05
15	08:42	10:38-12:01/83	07:49	11:01-11:29/28	06:42	06:23	05:18	04:44
	16:26		17:29		18:26	20:27	21:25	22:06
16	08:41	10:38-12:01/83	07:47	11:05-11:25/20	06:39	06:21	05:16	04:44
	16:27		17:31		18:28	20:29	21:27	22:06
17	08:40	10:38-12:01/83	07:45	11:14-11:15/1	06:37	06:18	05:14	04:43
	16:29		17:33		18:30	20:31	21:28	22:07
18	08:38	10:39-12:01/82	07:43		06:34	06:16	05:12	04:43
	16:31		17:35		18:32	20:33	21:30	22:07
19	08:37	10:39-12:01/82	07:40		06:32	06:13	05:11	04:43
	16:33		17:37		18:34	20:35	21:32	22:08
20	08:36	10:40-12:01/81	07:38		06:29	06:11	05:09	04:43
	16:35		17:39		18:36	20:37	21:33	22:08
21	08:35	15:58-16:00/2	07:36		06:27	06:09	05:07	04:43
	16:37	10:40-12:01/81	17:41		18:38	20:39	21:35	22:08
22	08:33	15:55-16:03/8	07:33		06:24	06:06	05:06	04:44
	16:39	10:41-12:01/80	17:43		18:40	20:41	21:37	22:08
23	08:32	15:53-16:05/12	07:31		06:21	06:04	05:04	04:44
	16:41	10:40-12:00/80	17:45		18:42	20:43	21:38	22:08
24	08:30	15:52-16:07/15	07:29		06:19	06:02	05:03	04:44
	16:43	10:40-12:00/80	17:47		18:44	20:45	21:40	22:09
25	08:29	15:52-16:10/18	07:26		06:16	05:59	05:01	04:45
	16:45	10:41-12:00/79	17:50		18:46	20:47	21:42	22:09
26	08:27	15:51-16:12/21	07:24		06:14	05:57	05:00	04:45
	16:47	10:41-11:59/78	17:52		18:48	20:49	21:43	22:09
27	08:26	15:50-16:14/24	07:22		06:11	05:55	04:59	04:45
	16:49	10:42-11:58/76	17:54		18:50	20:51	21:45	22:08
28	08:24	15:49-16:16/27	07:19		06:09	05:52	04:57	04:46
	16:51	10:42-11:57/75	17:56		18:52	20:53	21:46	22:08
29	08:23	15:49-16:18/29			07:06	05:50	04:56	04:47
	16:53	10:42-11:56/74			19:54	20:55	21:48	22:08
30	08:21	15:49-16:21/32			07:03	05:48	04:55	04:47
	16:55	10:42-11:55/73			19:56	20:56	21:49	22:08
31	08:19	15:48-16:23/35			07:01		04:54	
	16:57	10:44-11:55/71			19:58		21:50	
Potential sun hours	243		270		366	423	500	519
Sum of minutes with flicker	2737		1273		0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 1 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October		November		December	
1	04:48	05:30	06:28	07:25		07:26	15:22-15:57/35	08:25	10:18-11:42/84
	22:07	21:29	20:19	19:02		16:48	10:20-11:09/49	16:01	
2	04:49	05:32	06:30	07:27		07:28	15:21-15:58/37	08:26	10:18-11:42/84
	22:07	21:27	20:17	19:00		16:46	10:20-11:11/51	16:00	
3	04:50	05:34	06:32	07:29		07:31	15:21-15:59/38	08:28	10:19-11:43/84
	22:06	21:26	20:14	18:57		16:44	10:19-11:12/53	15:59	
4	04:50	05:36	06:34	07:31		07:33	15:20-15:59/39	08:29	10:20-11:43/83
	22:06	21:24	20:12	18:55		16:42	10:18-11:14/56	15:59	
5	04:51	05:38	06:36	07:32		07:35	15:19-15:59/40	08:31	10:19-11:43/84
	22:05	21:22	20:09	18:52		16:40	10:17-11:16/59	15:58	
6	04:52	05:40	06:38	07:34		07:37	15:20-15:59/39	08:32	10:20-11:44/84
	22:05	21:20	20:07	18:50		16:38	10:17-11:18/61	15:57	
7	04:53	05:41	06:40	07:36		07:39	15:20-15:59/39	08:34	10:21-11:45/84
	22:04	21:17	20:04	18:47		16:36	10:16-11:20/64	15:57	
8	04:54	05:43	06:41	07:38		07:41	15:19-15:59/40	08:35	10:21-11:45/84
	22:03	21:15	20:02	18:45		16:34	10:15-11:21/66	15:56	
9	04:56	05:45	06:43	07:40		07:43	15:19-15:58/39	08:36	10:21-11:45/84
	22:02	21:13	19:59	18:42		16:32	10:15-11:22/67	15:56	
10	04:57	05:47	06:45	07:42		07:45	15:20-15:57/37	08:38	10:23-11:46/83
	22:01	21:11	19:57	18:40		16:31	10:15-11:24/69	15:55	
11	04:58	05:49	06:47	07:44		07:47	15:20-15:55/35	08:39	10:23-11:46/83
	22:00	21:09	19:54	18:37		16:29	10:15-11:25/70	15:55	
12	04:59	05:51	06:49	07:46		07:49	15:21-15:52/31	08:40	10:23-11:46/83
	21:59	21:07	19:51	18:35		16:27	10:14-11:27/73	15:55	
13	05:00	05:53	06:51	07:48		07:51	15:21-15:50/29	08:41	10:24-11:46/82
	21:58	21:05	19:49	18:32		16:25	10:14-11:28/74	15:55	
14	05:02	05:54	06:53	07:50		07:53	15:21-15:48/27	08:42	10:24-11:47/83
	21:57	21:02	19:46	18:30		16:23	10:15-11:30/75	15:55	
15	05:03	05:56	06:55	07:52		07:55	15:23-15:47/24	08:43	10:24-11:47/83
	21:56	21:00	19:44	18:27		16:22	10:15-11:31/76	15:55	
16	05:05	05:58	06:56	07:54		07:57	15:24-15:45/21	08:44	10:25-11:48/83
	21:55	20:58	19:41	18:25		16:20	10:14-11:32/78	15:55	
17	05:06	06:00	06:58	07:56		07:59	15:25-15:43/18	08:45	10:26-11:48/82
	21:54	20:56	19:39	18:23		16:18	10:14-11:33/79	15:55	
18	05:07	06:02	07:00	07:58		08:01	15:26-15:41/15	08:46	10:26-11:49/83
	21:52	20:53	19:36	18:20		16:17	10:14-11:34/80	15:55	
19	05:09	06:04	07:02	08:00		08:03	15:27-15:39/12	08:46	10:27-11:50/83
	21:51	20:51	19:33	18:18		16:15	10:15-11:35/80	15:55	
20	05:10	06:06	07:04	08:02		08:05	15:30-15:38/8	08:47	10:27-11:49/82
	21:50	20:49	19:31	18:15		16:14	10:16-11:36/80	15:56	
21	05:12	06:08	07:06	08:04		08:07	15:34-15:36/2	08:48	10:28-11:50/82
	21:48	20:46	19:28	18:13		16:12	10:16-11:37/81	15:56	
22	05:14	06:09	07:08	08:06		08:09	10:16-11:37/81	08:48	10:28-11:50/82
	21:47	20:44	19:26	18:11		16:11		15:56	
23	05:15	06:11	07:10	08:08		08:10	10:16-11:38/82	08:49	10:29-11:51/82
	21:45	20:41	19:23	18:08		16:10		15:57	
24	05:17	06:13	07:11	08:10		08:12	10:16-11:38/82	08:49	10:29-11:52/83
	21:43	20:39	19:20	18:06		16:08		15:58	
25	05:18	06:15	07:13	07:12	10:39-10:50/11	08:14	10:16-11:39/83	08:50	10:29-11:52/83
	21:42	20:37	19:18	17:04		16:07		15:58	
26	05:20	06:17	07:15	07:14	10:33-10:56/23	08:16	10:16-11:39/83	08:50	10:31-11:53/82
	21:40	20:34	19:15	17:02		16:06		15:59	
27	05:22	06:19	07:17	07:16	10:30-10:59/29	08:18	10:17-11:40/83	08:50	10:31-11:54/83
	21:38	20:32	19:13	16:59		16:05		16:00	
28	05:23	06:21	07:19	07:18	15:44-15:50/6 10:27-11:02/35	08:20	10:17-11:41/84	08:50	10:31-11:54/83
	21:37	20:29	19:10	16:57	15:33-15:34/1	16:04		16:01	
29	05:25	06:23	07:21	07:20	15:41-15:54/13 10:25-11:05/40	08:21	10:17-11:41/84	08:50	10:32-11:55/83
	21:35	20:27	19:08	16:55	15:28-15:40/12	16:03		16:01	
30	05:27	06:25	07:23	07:22	15:25-15:55/30	08:23	10:18-11:42/84	08:50	10:31-11:54/83
	21:33	20:24	19:05	16:53	10:23-11:06/43	16:02		16:02	
31	05:29	06:26		07:24	15:23-15:56/33			08:50	10:32-11:55/83
	21:31	20:22		16:51	10:22-11:08/46			16:03	
Potential sun hours	520	464	383	326		253		225	
Sum of minutes with flicker	0	0	0	322		2792		2574	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 2 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June
1	08:50 12:36-14:02/86 16:05	08:17 13:04-14:13/69 16:59	07:17 17:58	06:58 20:00	05:46 20:58	04:53 20:37-21:15/38 21:52
2	08:50 12:36-14:02/86 16:06	08:16 13:07-14:13/66 17:01	07:14 18:00	06:56 20:02	05:44 21:00	04:52 20:37-21:16/39 21:53
3	08:50 12:37-14:03/86 16:07	08:14 13:14-14:11/57 17:03	07:12 18:02	06:53 20:04	05:41 21:02	04:51 20:37-21:16/39 21:54
4	08:50 12:37-14:04/87 16:09	08:12 16:29-16:32/3 17:05 13:15-14:11/56	07:09 18:04	06:51 20:06	05:39 21:04	04:50 20:38-21:17/39 21:56
5	08:49 12:38-14:05/87 16:10	08:10 16:27-16:35/8 17:07 13:16-14:10/54	07:07 18:06	06:48 20:08	05:37 21:06	04:49 20:38-21:18/40 21:57
6	08:49 12:38-14:05/87 16:11	08:08 16:26-16:37/11 17:09 13:17-14:10/53	07:05 18:08	06:46 20:09	05:35 21:08	04:48 20:38-21:18/40 21:58
7	08:48 12:38-14:06/88 16:13	08:06 16:25-16:40/15 17:12 13:19-14:09/50	07:02 18:10	06:43 20:11	05:33 21:10	04:48 20:39-21:18/39 21:59
8	08:48 12:40-14:06/86 16:14	08:04 16:25-16:42/17 17:14 13:20-14:08/48	07:00 18:12	06:41 20:13	05:31 21:12	04:47 20:39-21:18/39 22:00
9	08:47 12:40-14:07/87 16:16	08:02 16:24-16:45/21 17:16 13:22-14:07/45	06:57 18:14	06:38 20:15	05:29 21:14	04:46 20:40-21:19/39 22:01
10	08:46 12:40-14:08/88 16:17	08:00 16:23-16:46/23 17:18 13:23-14:04/41	06:55 18:16	06:36 20:17	05:27 21:16	04:46 20:39-21:19/40 22:02
11	08:45 12:41-14:09/88 16:19	07:58 16:23-16:49/26 17:20 13:25-14:03/38	06:52 18:18	06:33 20:19	05:25 21:17	04:45 20:40-21:19/39 22:03
12	08:45 12:42-14:09/87 16:20	07:56 16:24-16:51/27 17:22 13:28-14:01/33	06:49 18:20	06:31 20:21	05:23 21:19	04:45 20:41-21:20/39 22:03
13	08:44 12:41-14:09/88 16:22	07:54 16:24-16:53/29 17:24 13:31-13:58/27	06:47 18:22	06:28 20:23	05:21 21:21	04:44 20:40-21:19/39 22:04
14	08:43 12:42-14:10/88 16:24	07:51 16:24-16:52/28 17:26 13:35-13:54/19	06:44 18:24	06:26 20:25	05:19 20:44-20:50/6 21:23	04:44 20:41-21:20/39 22:05
15	08:42 12:43-14:10/87 16:26	07:49 16:24-16:52/28 17:29	06:42 18:26	06:23 20:27	05:18 20:41-20:51/10 21:25	04:44 20:41-21:20/39 22:06
16	08:41 12:44-14:11/87 16:27	07:47 16:26-16:51/25 17:31	06:39 18:28	06:21 20:29	05:16 20:41-20:53/12 21:27	04:44 20:42-21:20/38 22:06
17	08:40 12:44-14:11/87 16:29	07:45 16:26-16:50/24 17:33	06:37 18:30	06:18 20:31	05:14 20:39-20:54/15 21:28	04:43 20:42-21:21/39 22:07
18	08:38 12:45-14:12/87 16:31	07:43 16:28-16:49/21 17:35	06:34 18:32	06:16 20:33	05:12 20:39-20:56/17 21:30	04:43 20:43-21:21/38 22:07
19	08:37 12:45-14:11/86 16:33	07:40 16:30-16:47/17 17:37	06:32 18:34	06:13 20:35	05:11 20:38-20:57/19 21:32	04:43 20:43-21:21/38 22:08
20	08:36 12:46-14:12/86 16:35	07:38 17:39	06:29 18:36	06:11 20:37	05:09 20:37-20:59/22 21:34	04:43 20:43-21:21/38 22:08
21	08:35 12:47-14:12/85 16:37	07:36 17:41	06:27 18:38	06:09 20:39	05:07 20:36-21:00/24 21:35	04:43 20:43-21:21/38 22:08
22	08:33 12:48-14:13/85 16:39	07:33 17:43	06:24 18:40	06:06 20:41	05:06 20:36-21:02/26 21:37	04:44 20:44-21:22/38 22:08
23	08:32 12:49-14:13/84 16:41	07:31 17:45	06:21 18:42	06:04 20:43	05:04 20:37-21:04/27 21:38	04:44 20:44-21:22/38 22:08
24	08:30 12:49-14:13/84 16:43	07:29 17:47	06:19 18:44	06:02 20:45	05:03 20:37-21:06/29 21:40	04:44 20:44-21:22/38 22:09
25	08:29 12:51-14:14/83 16:45	07:26 17:50	06:16 18:46	05:59 20:47	05:01 20:36-21:06/30 21:42	04:45 20:44-21:23/39 22:09
26	08:27 12:52-14:13/81 16:47	07:24 17:52	06:14 18:48	05:57 20:49	05:00 20:36-21:08/32 21:43	04:45 20:44-21:23/39 22:09
27	08:26 12:53-14:13/80 16:49	07:22 17:54	06:11 18:50	05:55 20:51	04:59 20:36-21:09/33 21:45	04:45 20:45-21:23/38 22:08
28	08:24 12:54-14:13/79 16:51	07:19 17:56	06:09 18:52	05:52 20:53	04:57 20:36-21:11/35 21:46	04:46 20:44-21:23/39 22:08
29	08:23 12:56-14:13/77 16:53		07:06 19:54	05:50 20:55	04:56 20:36-21:12/36 21:48	04:47 20:45-21:24/39 22:08
30	08:21 12:58-14:13/75 16:55		07:03 19:56	05:48 20:56	04:55 20:37-21:13/36 21:49	04:47 20:44-21:23/39 22:08
31	08:19 13:01-14:13/72 16:57		07:01 19:58		04:54 20:37-21:14/37 21:50	
Potential sun hours	243	270	366	423	500	519
Sum of minutes with flicker	2624	979	0	0	446	1163

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 2 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October	November	December
1	04:48 20:44-21:24/40 22:07	05:31 21:29	06:28 20:19	07:25 19:02	07:26 15:53-16:15/22 16:48 12:52-13:34/42	08:25 12:23-13:51/88 16:01
2	04:49 20:45-21:24/39 22:07	05:32 21:28	06:30 20:17	07:27 19:00	07:29 15:53-16:13/20 16:46 12:51-13:37/46	08:26 12:23-13:50/87 16:00
3	04:50 20:45-21:24/39 22:07	05:34 21:26	06:32 20:14	07:29 18:57	07:31 15:55-16:11/16 16:44 12:50-13:38/48	08:28 12:23-13:51/88 15:59
4	04:50 20:44-21:24/40 22:06	05:36 21:24	06:34 20:12	07:31 18:55	07:33 15:55-16:09/14 16:42 12:48-13:39/51	08:29 12:24-13:51/87 15:59
5	04:51 20:44-21:24/40 22:05	05:38 21:22	06:36 20:09	07:33 18:52	07:35 15:56-16:07/11 16:40 12:47-13:39/52	08:31 12:23-13:51/88 15:58
6	04:52 20:44-21:24/40 22:05	05:40 21:20	06:38 20:07	07:34 18:50	07:37 15:58-16:05/7 16:38 12:47-13:41/54	08:32 12:24-13:51/87 15:57
7	04:53 20:44-21:24/40 22:04	05:41 21:18	06:40 20:04	07:36 18:47	07:39 16:00-16:03/3 16:36 12:46-13:42/56	08:34 12:25-13:52/87 15:57
8	04:54 20:44-21:24/40 22:03	05:43 21:15	06:41 20:02	07:38 18:45	07:41 12:44-13:42/58 16:34	08:35 12:25-13:52/87 15:56
9	04:56 20:44-21:24/40 22:02	05:45 21:13	06:43 19:59	07:40 18:42	07:43 12:37-13:43/66 16:32	08:36 12:25-13:52/87 15:56
10	04:57 20:44-21:24/40 22:01	05:47 21:11	06:45 19:57	07:42 18:40	07:45 12:34-13:44/70 16:31	08:38 12:26-13:53/87 15:55
11	04:58 20:44-21:23/39 22:00	05:49 21:09	06:47 19:54	07:44 18:37	07:47 12:32-13:44/72 16:29	08:39 12:26-13:53/87 15:55
12	04:59 20:45-21:23/38 21:59	05:51 21:07	06:49 19:51	07:46 18:35	07:49 12:29-13:45/76 16:27	08:40 12:26-13:53/87 15:55
13	05:00 20:45-21:22/37 21:58	05:53 21:05	06:51 19:49	07:48 18:32	07:51 12:28-13:45/77 16:25	08:41 12:27-13:53/86 15:55
14	05:02 20:45-21:21/36 21:57	05:54 21:02	06:53 19:46	07:50 18:30	07:53 12:27-13:46/79 16:23	08:42 12:27-13:53/86 15:55
15	05:03 20:45-21:20/35 21:56	05:56 21:00	06:55 19:44	07:52 18:27	07:55 12:26-13:46/80 16:22	08:43 12:28-13:53/85 15:55
16	05:05 20:46-21:19/33 21:55	05:58 20:58	06:56 19:41	07:54 18:25	07:57 12:25-13:46/81 16:20	08:44 12:28-13:54/86 15:55
17	05:06 20:45-21:18/33 21:54	06:00 20:56	06:58 19:39	07:56 18:23	07:59 12:24-13:47/83 16:19	08:45 12:29-13:54/85 15:55
18	05:07 20:45-21:16/31 21:52	06:02 20:53	07:00 19:36	07:58 18:20	08:01 12:23-13:47/84 16:17	08:46 12:29-13:55/86 15:55
19	05:09 20:46-21:16/30 21:51	06:04 20:51	07:02 19:33	08:00 18:18	08:03 12:24-13:48/84 16:15	08:46 12:30-13:56/86 15:55
20	05:10 20:46-21:14/28 21:50	06:06 20:49	07:04 19:31	08:02 18:15	08:05 12:23-13:48/85 16:14	08:47 12:30-13:55/85 15:56
21	05:12 20:46-21:13/27 21:48	06:08 20:46	07:06 19:28	08:04 18:13	08:07 12:23-13:48/85 16:13	08:48 12:31-13:56/85 15:56
22	05:14 20:47-21:12/25 21:47	06:09 20:44	07:08 19:26	08:06 17:02-17:08/6 18:11	08:09 12:22-13:48/86 16:11	08:48 12:31-13:56/85 15:56
23	05:15 20:47-21:10/23 21:45	06:11 20:41	07:10 19:23	08:08 16:59-17:17/18 18:08	08:11 12:22-13:49/87 16:10	08:49 12:32-13:57/85 15:57
24	05:17 20:48-21:09/21 21:43	06:13 20:39	07:12 19:20	08:10 16:57-17:19/22 18:06	08:12 12:22-13:49/87 16:09	08:49 12:32-13:57/85 15:58
25	05:18 20:48-21:07/19 21:42	06:15 20:37	07:13 19:18	07:12 15:56-16:20/24 17:04	08:14 12:22-13:49/87 16:07	08:50 12:32-13:58/86 15:58
26	05:20 20:49-21:06/17 21:40	06:17 20:34	07:15 19:15	07:14 15:55-16:21/26 17:02	08:16 12:22-13:49/87 16:06	08:50 12:34-13:59/85 15:59
27	05:22 20:50-21:04/14 21:38	06:19 20:32	07:17 19:13	07:16 15:54-16:21/27 16:59 13:11-13:18/7	08:18 12:22-13:49/87 16:05	08:50 12:34-14:00/86 16:00
28	05:24 20:51-21:03/12 21:37	06:21 20:29	07:19 19:10	07:18 15:53-16:21/28 16:57 13:03-13:24/21	08:20 12:22-13:50/88 16:04	08:50 12:34-14:00/86 16:01
29	05:25 20:53-21:02/9 21:35	06:23 20:27	07:21 19:08	07:20 15:54-16:22/28 16:55 13:00-13:29/29	08:21 12:22-13:50/88 16:03	08:50 12:35-14:01/86 16:02
30	05:27 20:55-20:59/4 21:33	06:25 20:24	07:23 19:05	07:22 15:53-16:20/27 16:53 12:57-13:31/34	08:23 12:23-13:50/87 16:02	08:50 12:34-14:00/86 16:02
31	05:29 21:31	06:26 20:22		07:24 15:53-16:18/25 16:51 12:55-13:33/38		08:50 12:35-14:01/86 16:04
Potential sun hours	520	464	383	326	253	225
Sum of minutes with flicker	909	0	0	360	2306	2673

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 3 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50 16:04	08:17 16:58	07:16 17:57	06:58 19:59	05:45 20:24-20:27/3 20:58	04:52 20:18-20:40/22 21:52	04:47 22:07	05:30 20:21-20:53/32 21:29	06:28 20:19	07:24 19:02	07:26 16:48	08:24 16:00
2	08:50 16:05	08:15 17:00	07:14 17:59	06:55 20:01	05:43 20:20-20:29/9 21:00	04:51 20:20-20:40/20 21:53	04:48 22:07	05:32 20:22-20:53/31 21:27	06:30 20:17	07:26 18:59	07:28 16:46	08:26 15:59
3	08:50 16:07	08:13 17:03	07:12 18:01	06:53 20:03	05:41 20:18-20:31/13 21:02	04:50 20:21-20:39/18 21:54	04:49 20:33-20:39/6 22:06	05:33 20:22-20:52/30 21:25	06:32 20:14	07:28 18:57	07:30 16:44	08:28 15:59
4	08:49 16:08	08:12 17:05	07:09 18:03	06:50 20:05	05:39 20:16-20:33/17 21:04	04:49 20:21-20:39/18 21:55	04:50 20:32-20:41/9 22:06	05:35 20:22-20:51/29 21:23	06:33 20:11	07:30 18:54	07:32 16:42	08:29 15:58
5	08:49 16:09	08:10 17:07	07:07 18:06	06:48 20:07	05:37 20:15-20:34/19 21:06	04:48 20:22-20:38/16 21:57	04:51 20:31-20:42/11 22:05	05:37 20:23-20:49/26 21:21	06:35 20:09	07:32 18:52	07:34 16:40	08:31 15:57
6	08:48 16:11	08:08 17:09	07:04 18:08	06:45 20:09	05:34 20:14-20:36/22 21:08	04:48 20:24-20:38/14 21:58	04:52 20:30-20:44/14 22:05	05:39 20:23-20:47/24 21:19	06:37 20:06	07:34 18:49	07:36 16:38	08:32 15:57
7	08:48 16:12	08:06 17:11	07:02 18:10	06:43 20:11	05:32 20:13-20:38/25 21:10	04:47 20:24-20:37/13 21:59	04:53 20:30-20:45/15 22:04	05:41 20:24-20:45/21 21:17	06:39 20:04	07:36 18:47	07:39 16:36	08:34 15:56
8	08:47 16:13	08:04 17:13	06:59 18:12	06:40 20:13	05:30 20:12-20:39/27 21:12	04:46 20:26-20:36/10 22:00	04:54 20:29-20:46/17 22:03	05:43 20:25-20:43/18 21:15	06:41 20:01	07:38 18:44	07:41 16:34	08:35 15:56
9	08:47 16:15	08:02 17:15	06:57 18:14	06:38 20:15	05:28 20:12-20:41/29 21:13	04:46 20:27-20:35/8 22:01	04:55 20:28-20:47/19 22:02	05:44 20:25-20:41/16 21:13	06:43 19:59	07:40 18:42	07:43 16:32	08:36 15:55
10	08:46 16:17	08:00 17:17	06:54 18:16	06:35 20:17	05:26 20:11-20:42/31 21:15	04:45 20:30-20:33/3 22:02	04:56 20:28-20:47/19 22:01	05:46 20:27-20:39/12 21:11	06:45 19:56	07:42 18:39	07:45 16:30	08:37 15:55
11	08:45 16:18	07:58 17:20	06:52 18:18	06:33 20:19	05:24 20:12-20:43/31 21:17	04:44 22:03	04:57 20:27-20:48/21 22:00	05:48 20:30-20:37/7 21:09	06:47 19:54	07:44 18:37	07:47 16:28	08:39 15:54
12	08:44 16:20	07:55 17:22	06:49 18:20	06:30 20:21	05:22 20:11-20:43/32 21:19	04:44 22:03	04:58 20:27-20:49/22 21:59	05:50 21:07	06:48 19:51	07:46 18:34	07:49 16:26	08:40 15:54
13	08:44 16:21	07:53 17:24	06:47 18:22	06:28 20:23	05:21 20:11-20:43/32 21:21	04:44 22:04	05:00 20:26-20:49/23 21:58	05:52 21:04	06:50 19:48	07:48 18:32	07:51 16:25	08:41 15:54
14	08:43 16:23	07:51 17:26	06:44 18:24	06:25 20:25	05:19 20:10-20:43/33 21:23	04:43 22:05	05:01 20:25-20:50/25 21:57	05:54 21:02	06:52 19:46	07:50 18:29	07:53 16:23	08:42 15:54
15	08:42 16:25	07:49 17:28	06:41 18:26	06:23 20:27	05:17 20:11-20:44/33 21:25	04:43 22:05	05:02 20:26-20:51/25 21:56	05:56 21:00	06:54 19:43	07:52 18:27	07:55 16:21	08:43 15:54
16	08:41 16:27	07:47 17:30	06:39 18:28	06:20 20:29	05:15 20:11-20:43/32 21:26	04:43 22:06	05:04 20:25-20:51/26 21:55	05:58 20:58	06:56 19:41	07:54 18:24	07:57 16:19	08:44 15:54
17	08:39 16:29	07:45 17:32	06:36 18:30	06:18 20:31	05:13 20:12-20:44/32 21:28	04:43 22:07	05:05 20:24-20:51/27 21:53	05:59 20:55	06:58 19:38	07:56 18:22	07:59 16:18	08:45 15:54
18	08:38 16:30	07:42 17:34	06:34 18:32	06:15 20:33	05:12 20:11-20:44/33 21:30	04:43 22:07	05:07 20:25-20:53/28 21:52	06:01 20:53	07:00 19:36	07:58 18:20	08:01 16:16	08:46 15:54
19	08:37 16:32	07:40 17:36	06:31 18:34	06:13 20:35	05:10 20:12-20:44/32 21:32	04:43 22:07	05:08 20:24-20:53/29 21:51	06:03 20:51	07:02 19:33	08:00 18:17	08:03 16:15	08:46 15:55
20	08:36 16:34	07:38 17:39	06:29 18:36	06:11 20:37	05:08 20:12-20:43/31 21:33	04:43 22:08	05:10 20:23-20:53/30 21:49	06:05 20:48	07:04 19:30	08:02 18:15	08:05 16:13	08:47 15:55
21	08:34 16:36	07:35 17:41	06:26 18:38	06:08 20:39	05:07 20:13-20:44/31 21:35	04:43 22:08	05:11 20:24-20:54/30 21:48	06:07 20:46	07:05 19:28	08:04 18:13	08:07 16:12	08:48 15:55
22	08:33 16:38	07:33 17:43	06:24 18:40	06:06 20:41	05:05 20:14-20:44/30 21:37	04:43 22:08	05:13 20:23-20:53/30 21:46	06:09 20:44	07:07 19:25	08:06 18:10	08:08 16:10	08:48 15:56
23	08:32 16:40	07:31 17:45	06:21 18:42	06:03 20:43	05:04 20:13-20:43/30 21:38	04:43 22:08	05:14 20:23-20:54/31 21:45	06:11 20:41	07:09 19:23	08:08 18:08	08:10 16:09	08:49 15:56
24	08:30 16:42	07:28 17:47	06:18 18:44	06:01 20:44	05:02 20:14-20:43/29 21:40	04:43 22:08	05:16 20:22-20:54/32 21:43	06:13 20:39	07:11 19:20	08:10 18:06	08:12 16:08	08:49 15:57
25	08:29 16:44	07:26 17:49	06:16 18:46	05:59 20:46	05:01 20:15-20:43/28 21:41	04:44 22:08	05:18 20:22-20:54/32 21:42	06:15 20:36	07:13 19:17	07:12 17:03	08:14 16:07	08:49 15:58
26	08:27 16:46	07:24 17:51	06:13 18:47	05:56 20:48	04:59 20:15-20:43/28 21:43	04:44 22:08	05:19 20:22-20:54/32 21:40	06:16 20:34	07:15 19:15	07:14 17:01	08:16 16:05	08:50 15:58
27	08:26 16:48	07:21 17:53	06:11 18:49	05:54 20:50	04:58 20:15-20:42/27 21:45	04:45 22:08	05:21 20:22-20:54/32 21:38	06:18 20:31	07:17 19:12	07:16 16:59	08:18 16:04	08:50 15:59
28	08:24 16:50	07:19 17:55	06:08 18:51	05:52 20:52	04:57 20:16-20:42/26 21:46	04:45 22:08	05:23 20:21-20:54/33 21:37	06:20 20:29	07:19 19:10	07:18 16:57	08:19 16:03	08:50 16:00
29	08:22 16:52		07:06 19:53	05:50 20:54	04:56 20:16-20:41/25 21:48	04:46 22:08	05:25 20:21-20:54/33 21:35	06:22 20:27	07:21 19:07	07:20 16:54	08:21 16:02	08:50 16:01
30	08:21 16:54		07:03 19:55	05:47 20:56	04:54 20:17-20:41/24 21:49	04:47 22:08	05:26 20:22-20:54/32 21:33	06:24 20:24	07:22 19:05	07:22 16:52	08:23 16:01	08:50 16:02
31	08:19 16:56		07:00 19:57		04:53 20:18-20:40/22 21:50		05:28 20:21-20:53/32 21:31	06:26 20:22		07:24 16:50		08:50 16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	0	0	816	142	715	246	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 4 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52 20:49-21:15/26	04:47 20:57-21:22/25	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51 20:50-21:17/27	04:48 20:57-21:22/25	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:13	07:12	06:53	05:41	04:50 20:50-21:17/27	04:49 20:57-21:23/26	05:33	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49 20:50-21:17/27	04:50 20:57-21:23/26	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:48 20:50-21:17/27	04:51 20:57-21:24/27	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08	07:04	06:45	05:34	04:48 20:51-21:18/27	04:52 20:58-21:24/26	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47 20:51-21:17/26	04:53 20:58-21:24/26	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46 20:52-21:18/26	04:54 20:58-21:24/26	05:43	06:41	07:38	07:41	08:35
	16:13	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:45 20:52-21:18/26	04:55 20:58-21:24/26	05:44	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45 20:53-21:18/25	04:56 20:58-21:24/26	05:46	06:45	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24	04:44 20:52-21:18/26	04:57 20:58-21:24/26	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44 20:53-21:18/25	04:58 20:58-21:23/25	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21	04:44 20:53-21:19/26	05:00 20:58-21:22/24	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43 20:54-21:19/25	05:01 20:58-21:20/22	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43 20:54-21:18/24	05:02 20:59-21:20/21	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43 20:54-21:19/25	05:04 20:58-21:19/21	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:19	15:54
17	08:39	07:45	06:36	06:18	05:13	04:43 20:54-21:19/25	05:05 20:58-21:17/19	05:59	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12 20:54-20:56/2	04:43 20:55-21:19/24	05:07 20:59-21:17/18	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10 20:53-20:58/5	04:43 20:55-21:19/24	05:08 20:59-21:15/16	06:03	07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08 20:52-20:59/7	04:43 20:56-21:20/24	05:10 20:59-21:14/15	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:35	07:35	06:26	06:08	05:07 20:51-21:01/10	04:43 20:56-21:20/24	05:11 21:01-21:13/12	06:07	07:05	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05 20:51-21:02/11	04:43 20:56-21:20/24	05:13 21:01-21:11/10	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:10	15:56
23	08:32	07:31	06:21	06:03	05:04 20:50-21:03/13	04:43 20:56-21:20/24	05:14 21:02-21:10/8	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02 20:50-21:05/15	04:43 20:57-21:21/24	05:16 21:03-21:08/5	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01 20:50-21:07/17	04:44 20:56-21:21/25	05:18 21:04-21:07/3	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:46	21:42	22:09	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:56	04:59 20:50-21:08/18	04:44 20:56-21:21/25	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11	05:54	04:58 20:49-21:09/20	04:45 20:57-21:21/24	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57 20:49-21:10/21	04:45 20:56-21:21/25	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56 20:49-21:11/22	04:46 20:57-21:22/25	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54 20:49-21:13/24	04:47 20:57-21:22/25	05:26	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53 20:49-21:14/25		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	0	0	210	757	504	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 5 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:25
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:14	07:12	06:53	05:41	04:50	04:49	05:33	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:56	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:13	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:45	04:55	05:44	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:38
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24	04:44	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:54
12	08:45	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:19	15:54
17	08:40	07:45	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59	08:45
	16:28	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:35	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:10	16:10	15:56
23	08:32	07:31	06:21	06:03	05:04	04:43	05:14	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:09	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:09	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:50	20:50	21:45	22:08	21:38	20:32	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54	04:46	05:26	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 6 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:25
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:33	06:32	07:28	07:30	08:28
	16:07	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:56	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:36	04:48	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08	07:04	06:45	05:34	04:47	04:52	05:39	06:37	07:34	07:37	08:32
	16:10	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:13	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:55
9	08:47	08:02	06:57	06:38	05:28	04:45	04:55	05:44	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:38
	16:16	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24	04:44	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:19	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:54
12	08:45	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21	04:43	05:00	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:19	15:54
17	08:40	07:45	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59	08:45
	16:28	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:42	05:07	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:17	16:15	15:54
20	08:36	07:38	06:29	06:10	05:08	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:35	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:10	16:10	15:56
23	08:32	07:31	06:21	06:03	05:04	04:43	05:14	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:46	21:42	22:09	21:42	20:36	19:17	17:03	16:07	15:57
26	08:27	07:24	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:09	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:55	04:46	05:24	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	269	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 7 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February		March	April	May	June	July	August	September	October		November		December
1	08:50	08:17		07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24		07:26	15:56-16:15/19	08:25
	16:04	16:58		17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02		16:48		16:00
2	08:50	08:15		07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26		07:28	15:56-16:12/16	08:26
	16:05	17:00		17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59		16:46		15:59
3	08:50	08:13		07:12	06:53	05:41	04:50	04:49	05:33	06:32	07:28		07:30	15:57-16:11/14	08:28
	16:06	17:02		18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57		16:44		15:58
4	08:49	08:12	16:31-16:32/1	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30		07:32	15:57-16:08/11	08:29
	16:08	17:05		18:03	20:05	21:04	21:56	22:06	21:23	20:12	18:54		16:42		15:58
5	08:49	08:10	16:29-16:34/5	07:07	06:48	05:36	04:48	04:50	05:37	06:35	07:32		07:34	15:58-16:06/8	08:31
	16:09	17:07		18:05	20:07	21:06	21:57	22:05	21:21	20:09	18:52		16:40		15:57
6	08:49	08:08	16:28-16:37/9	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34		07:37	15:59-16:04/5	08:32
	16:10	17:09		18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49		16:38		15:56
7	08:48	08:06	16:28-16:39/11	07:02	06:43	05:32	04:47	04:52	05:41	06:39	07:36		07:39		08:34
	16:12	17:11		18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47		16:36		15:56
8	08:47	08:04	16:27-16:42/15	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38		07:41		08:35
	16:13	17:13		18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44		16:34		15:55
9	08:47	08:02	16:26-16:43/17	06:57	06:38	05:28	04:45	04:55	05:44	06:43	07:40		07:43		08:36
	16:15	17:15		18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42		16:32		15:55
10	08:46	08:00	16:26-16:46/20	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42		07:45		08:38
	16:16	17:17		18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39		16:30		15:55
11	08:45	07:58	16:26-16:48/22	06:52	06:33	05:24	04:44	04:57	05:48	06:47	07:44		07:47		08:39
	16:18	17:19		18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37		16:28		15:54
12	08:45	07:55	16:27-16:49/22	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46		07:49		08:40
	16:20	17:22		18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34		16:26		15:54
13	08:44	07:53	16:26-16:48/22	06:47	06:28	05:20	04:43	05:00	05:52	06:50	07:48		07:51		08:41
	16:21	17:24		18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32		16:24		15:54
14	08:43	07:51	16:27-16:48/21	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50		07:53		08:42
	16:23	17:26		18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29		16:23		15:54
15	08:42	07:49	16:28-16:47/19	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:52		07:55		08:43
	16:25	17:28		18:26	20:27	21:25	22:06	21:56	21:00	19:43	18:27		16:21		15:54
16	08:41	07:47	16:28-16:46/18	06:39	06:20	05:15	04:43	05:04	05:57	06:56	07:54		07:57		08:44
	16:27	17:30		18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24		16:19		15:54
17	08:40	07:45	16:30-16:45/15	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56		07:59		08:45
	16:28	17:32		18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22		16:18		15:54
18	08:38	07:42	16:32-16:43/11	06:34	06:15	05:12	04:42	05:07	06:01	07:00	07:58		08:01		08:46
	16:30	17:34		18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20		16:16		15:54
19	08:37	07:40	16:35-16:39/4	06:31	06:13	05:10	04:42	05:08	06:03	07:02	08:00		08:03		08:46
	16:32	17:36		18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:17		16:15		15:54
20	08:36	07:38		06:29	06:10	05:08	04:42	05:10	06:05	07:03	08:02		08:05		08:47
	16:34	17:39		18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15		16:13		15:55
21	08:35	07:35		06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04		08:07		08:48
	16:36	17:41		18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:12		16:12		15:55
22	08:33	07:33		06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06		08:09		08:48
	16:38	17:43		18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:10		16:10		15:56
23	08:32	07:31		06:21	06:03	05:04	04:43	05:14	06:11	07:09	08:08	17:04-17:11/7	08:10		08:49
	16:40	17:45		18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08		16:09		15:56
24	08:30	07:28		06:18	06:01	05:02	04:43	05:16	06:13	07:11	08:10	17:01-17:13/12	08:12		08:49
	16:42	17:47		18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06		16:08		15:57
25	08:29	07:26		06:16	05:59	05:01	04:44	05:18	06:14	07:13	07:12	15:59-16:15/16	08:14		08:50
	16:44	17:49		18:46	20:46	21:42	22:09	21:42	20:36	19:17	17:03		16:06		15:57
26	08:27	07:24		06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	15:58-16:16/18	08:16		08:50
	16:46	17:51		18:47	20:48	21:43	22:09	21:40	20:34	19:15	17:01		16:05		15:58
27	08:26	07:21		06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	15:57-16:17/20	08:18		08:50
	16:48	17:53		18:49	20:50	21:45	22:08	21:38	20:31	19:12	16:59		16:04		15:59
28	08:24	07:19		06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	15:56-16:17/21	08:19		08:50
	16:50	17:55		18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:56		16:03		16:00
29	08:22			07:06	05:50	04:55	04:46	05:24	06:22	07:21	07:20	15:55-16:17/22	08:21		08:50
	16:52			19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54		16:02		16:01
30	08:21			07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	15:56-16:18/22	08:23		08:50
	16:54			19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52		16:01		16:02
31	08:19			07:00		04:53		05:28	06:26		07:24	15:56-16:17/21			08:50
	16:56			19:57		21:50		21:31	20:22		16:50				16:03
Potential sun hours	243	269		366	423	501	519	521	465	383	326		253		225
Sum of minutes with flicker	0	232		0	0	0	0	0	0	0	159		73		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 8 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June
1	08:50 14:42-14:58/16	08:17 10:43-11:08/25	07:16	06:58	05:45 19:36-20:17/41	04:52 19:43-20:57/74
	16:04 10:21-11:11/50	16:58	17:57	19:59	20:58	21:52
2	08:50 14:42-14:57/15	08:15 10:45-11:06/21	07:14	06:55	05:43 19:35-20:16/41	04:51 19:44-20:57/73
	16:05 10:21-11:11/50	17:00	17:59	20:01	21:00	21:53
3	08:50 14:43-14:58/15	08:13 10:49-11:02/13	07:11	06:53	05:41 19:34-20:19/45	04:50 19:45-20:58/73
	16:06 10:22-11:12/50	17:02	18:01	20:03	21:02	21:54
4	08:49 14:44-14:57/13	08:11	07:09	06:50	05:38 19:33-20:23/50	04:49 19:46-20:58/72
	16:08 10:22-11:12/50	17:04	18:03	20:05	21:04	21:55
5	08:49 14:46-14:58/12	08:10	07:06	06:47	05:36 19:34-20:26/52	04:48 19:47-20:58/71
	16:09 10:23-11:13/50	17:07	18:05	20:07	21:06	21:57
6	08:48 14:47-14:57/10	08:08	07:04	06:45	05:34 19:33-20:28/55	04:47 19:47-20:58/71
	16:10 10:23-11:13/50	17:09	18:07	20:09	21:08	21:58
7	08:48 14:48-14:56/8	08:06	07:01	06:42	05:32 19:33-20:29/56	04:47 19:49-20:59/70
	16:12 10:23-11:13/50	17:11	18:09	20:11	21:10	21:59
8	08:47 14:51-14:54/3	08:04	06:59	06:40	05:30 19:33-20:30/57	04:46 19:50-20:59/69
	16:13 10:23-11:13/50	17:13	18:11	20:13	21:12	22:00
9	08:47 10:25-11:15/50	08:02	06:56	06:37	05:28 19:32-20:31/59	04:45 19:52-21:00/68
	16:15	17:15	18:13	20:15	21:13	22:01
10	08:46 10:25-11:15/50	08:00	06:54	06:35	05:26 19:32-20:32/60	04:45 19:52-21:00/68
	16:16	17:17	18:16	20:17	21:15	22:02
11	08:45 10:25-11:15/50	07:57	06:51	06:32	05:24 19:32-20:33/61	04:44 19:53-21:00/67
	16:18	17:19	18:18	20:19	21:17	22:03
12	08:44 10:25-11:15/50	07:55	06:49	06:30	05:22 19:33-20:34/61	04:44 19:53-21:01/68
	16:20	17:21	18:20	20:21	21:19	22:03
13	08:44 10:26-11:15/49	07:53	06:46	06:27	05:20 19:32-20:35/63	04:43 19:54-21:01/67
	16:21	17:24	18:22	20:23	21:21	22:04
14	08:43 10:26-11:16/50	07:51	06:44	06:25	05:18 19:32-20:37/65	04:43 19:54-21:01/67
	16:23	17:26	18:24	20:25	21:23	22:05
15	08:42 10:27-11:16/49	07:49	06:41	06:22	05:17 19:33-20:41/68	04:43 19:54-21:01/67
	16:25	17:28	18:26	20:27	21:25	22:05
16	08:41 10:28-11:17/49	07:47	06:39	06:20	05:15 19:33-20:43/70	04:42 19:54-21:02/68
	16:26	17:30	18:28	20:29	21:26	22:06
17	08:39 10:28-11:16/48	07:44	06:36	06:18	05:13 19:33-20:45/72	04:42 19:55-21:02/67
	16:28	17:32	18:30	20:31	21:28	22:07
18	08:38 10:29-11:17/48	07:42	06:34	06:15	05:11 19:34-20:47/73	04:42 19:55-21:02/67
	16:30	17:34	18:32	20:33	21:30	22:07
19	08:37 10:29-11:16/47	07:40	06:31	06:13	05:10 19:33-20:48/75	04:42 19:55-21:02/67
	16:32	17:36	18:34	20:35	21:32	22:07
20	08:36 10:30-11:17/47	07:38	06:29	06:10	05:08 19:34-20:49/75	04:42 19:55-21:02/67
	16:34	17:38	18:36	20:37	21:33	22:08
21	08:34 10:30-11:16/46	07:35	06:26	06:08	05:06 19:35-20:51/76	04:42 19:55-21:02/67
	16:36	17:40	18:37	20:39	21:35	22:08
22	08:33 10:31-11:17/46	07:33	06:23	06:06	05:05 19:35-20:51/76	04:43 19:56-21:03/67
	16:38	17:43	18:39	20:40	21:37	22:08
23	08:32 10:32-11:16/44	07:31	06:21	06:03 19:51-20:05/14	05:03 19:36-20:52/76	04:43 19:56-21:03/67
	16:40	17:45	18:41	20:42	21:38	22:08
24	08:30 10:32-11:16/44	07:28	06:18	06:01 19:47-20:08/21	05:02 19:37-20:53/76	04:43 19:56-21:03/67
	16:42	17:47	18:43	20:44	21:40	22:08
25	08:29 10:34-11:16/42	07:26	06:16	05:59 19:44-20:09/25	05:00 19:37-20:53/76	04:44 19:57-21:04/67
	16:44	17:49	18:45	20:46	21:41	22:08
26	08:27 10:35-11:15/40	07:24	06:13	05:56 19:42-20:11/29	04:59 19:38-20:54/76	04:44 19:56-21:04/68
	16:46	17:51	18:47	20:48	21:43	22:08
27	08:26 10:35-11:14/39	07:21	06:11	05:54 19:41-20:13/32	04:58 19:39-20:55/76	04:44 19:57-21:04/67
	16:48	17:53	18:49	20:50	21:45	22:08
28	08:24 10:36-11:13/37	07:19	06:08	05:52 19:39-20:14/35	04:56 19:39-20:55/76	04:45 19:57-21:04/67
	16:50	17:55	18:51	20:52	21:46	22:08
29	08:22 10:38-11:12/34		07:05	05:49 19:38-20:15/37	04:55 19:40-20:56/76	04:46 19:57-21:05/68
	16:52		19:53	20:54	21:47	22:08
30	08:21 10:39-11:11/32		07:03	05:47 19:37-20:16/39	04:54 19:41-20:56/75	04:46 19:57-21:04/67
	16:54		19:55	20:56	21:49	22:08
31	08:19 10:41-11:10/29		07:00		04:53 19:42-20:57/75	
	16:56		19:57		21:50	
Potential sun hours	242	269	366	423	501	519
Sum of minutes with flicker	1512	59	0	232	2033	2053

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 8 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October	November	December
1	04:47 19:57-21:05/68 22:07	05:30 19:43-20:44/61 21:29	06:28 20:19	07:24 19:02	07:26 16:48	08:24 10:08-10:58/50 16:00
2	04:48 19:57-21:05/68 22:07	05:31 19:42-20:43/61 21:27	06:29 20:16	07:26 18:59	07:28 16:46	08:26 10:07-10:57/50 15:59
3	04:49 19:57-21:05/68 22:06	05:33 19:42-20:42/60 21:25	06:31 20:14	07:28 18:57	07:30 16:43	08:28 10:08-10:58/50 15:58
4	04:49 19:57-21:06/69 22:06	05:35 19:43-20:41/58 21:23	06:33 20:11	07:30 18:54	07:32 16:41	08:29 14:36-14:39/3 15:58 10:08-10:58/50
5	04:50 19:55-21:05/70 22:05	05:37 19:42-20:39/57 21:21	06:35 20:09	07:32 18:52	07:34 16:39	08:31 14:33-14:41/8 15:57 10:08-10:58/50
6	04:51 19:54-21:05/71 22:05	05:39 19:42-20:38/56 21:19	06:37 20:06	07:34 18:49	07:36 16:37	08:32 14:33-14:43/10 15:56 10:09-10:59/50
7	04:52 19:54-21:05/71 22:04	05:41 19:43-20:37/54 21:17	06:39 20:04	07:36 18:47	07:38 16:35	08:33 14:32-14:44/12 15:56 10:09-10:59/50
8	04:53 19:53-21:05/72 22:03	05:42 19:43-20:35/52 21:15	06:41 20:01	07:38 18:44	07:41 10:19-10:33/14 16:33	08:35 14:32-14:45/13 15:55 10:10-11:00/50
9	04:55 19:52-21:05/73 22:02	05:44 19:43-20:31/48 21:13	06:43 19:59	07:40 18:42	07:43 10:16-10:37/21 16:32	08:36 14:32-14:46/14 15:55 10:10-11:00/50
10	04:56 19:51-21:05/74 22:01	05:46 19:44-20:26/42 21:11	06:45 19:56	07:42 18:39	07:45 10:13-10:39/26 16:30	08:37 14:32-14:47/15 15:54 10:11-11:01/50
11	04:57 19:52-21:05/73 22:00	05:48 19:44-20:25/41 21:09	06:46 19:53	07:44 18:37	07:47 10:12-10:42/30 16:28	08:39 14:32-14:48/16 15:54 10:11-11:01/50
12	04:58 19:51-21:05/74 21:59	05:50 19:44-20:24/40 21:06	06:48 19:51	07:46 18:34	07:49 10:11-10:43/32 16:26	08:40 14:32-14:48/16 15:54 10:12-11:01/49
13	04:59 19:50-21:05/75 21:58	05:52 19:45-20:23/38 21:04	06:50 19:48	07:48 18:32	07:51 10:09-10:44/35 16:24	08:41 14:32-14:49/17 15:54 10:12-11:01/49
14	05:01 19:49-21:04/75 21:57	05:54 19:46-20:22/36 21:02	06:52 19:46	07:50 18:29	07:53 10:08-10:45/37 16:23	08:42 14:32-14:50/18 15:54 10:12-11:01/49
15	05:02 19:48-21:04/76 21:56	05:55 19:47-20:21/34 21:00	06:54 19:43	07:52 18:27	07:55 10:08-10:47/39 16:21	08:43 14:32-14:50/18 15:54 10:13-11:02/49
16	05:04 19:48-21:04/76 21:55	05:57 19:49-20:20/31 20:57	06:56 19:41	07:54 18:24	07:57 10:07-10:48/41 16:19	08:44 14:33-14:51/18 15:54 10:13-11:02/49
17	05:05 19:48-21:04/76 21:53	05:59 19:49-20:17/28 20:55	06:58 19:38	07:56 18:22	07:59 10:07-10:49/42 16:18	08:45 14:33-14:52/19 15:54 10:14-11:03/49
18	05:06 19:47-21:03/76 21:52	06:01 19:51-20:16/25 20:53	07:00 19:35	07:58 18:19	08:01 10:06-10:50/44 16:16	08:46 14:34-14:52/18 15:54 10:15-11:03/48
19	05:08 19:47-21:03/76 21:51	06:03 19:53-20:13/20 20:51	07:01 19:33	08:00 18:17	08:03 10:06-10:50/44 16:15	08:46 14:34-14:53/19 15:54 10:16-11:04/48
20	05:09 19:46-21:02/76 21:49	06:05 19:57-20:10/13 20:48	07:03 19:30	08:02 18:15	08:05 10:06-10:52/46 16:13	08:47 14:34-14:53/19 15:55 10:15-11:04/49
21	05:11 19:46-21:02/76 21:48	06:07 20:46	07:05 19:28	08:04 18:12	08:06 10:06-10:52/46 16:12	08:48 14:35-14:54/19 15:55 10:16-11:05/49
22	05:13 19:45-21:01/76 21:46	06:09 20:43	07:07 19:25	08:06 18:10	08:08 10:06-10:53/47 16:10	08:48 14:35-14:54/19 15:55 10:16-11:05/49
23	05:14 19:45-21:00/75 21:45	06:11 20:41	07:09 19:22	08:08 18:08	08:10 10:06-10:53/47 16:09	08:49 14:36-14:55/19 15:56 10:17-11:06/49
24	05:16 19:44-20:59/75 21:43	06:12 20:39	07:11 19:20	08:10 18:05	08:12 10:06-10:54/48 16:08	08:49 14:36-14:55/19 15:57 10:17-11:06/49
25	05:17 19:45-20:58/73 21:42	06:14 20:36	07:13 19:17	07:12 17:03	08:14 10:06-10:54/48 16:06	08:49 14:36-14:55/19 15:57 10:18-11:06/48
26	05:19 19:44-20:56/72 21:40	06:16 20:34	07:15 19:15	07:14 17:01	08:16 10:06-10:55/49 16:05	08:50 14:38-14:56/18 15:58 10:19-11:08/49
27	05:21 19:44-20:55/71 21:38	06:18 20:31	07:17 19:12	07:16 16:59	08:18 10:06-10:55/49 16:04	08:50 14:38-14:57/19 15:59 10:19-11:08/49
28	05:23 19:43-20:53/70 21:36	06:20 20:29	07:19 19:10	07:18 16:56	08:19 10:06-10:56/50 16:03	08:50 14:39-14:57/18 16:00 10:20-11:09/49
29	05:24 19:43-20:50/67 21:35	06:22 20:26	07:20 19:07	07:20 16:54	08:21 10:07-10:56/49 16:02	08:50 14:40-14:57/17 16:01 10:20-11:09/49
30	05:26 19:42-20:45/63 21:33	06:24 20:24	07:22 19:04	07:22 16:52	08:23 10:07-10:57/50 16:01	08:50 14:39-14:57/18 16:01 10:20-11:09/49
31	05:28 19:43-20:45/62 21:31	06:26 20:21		07:24 16:50		08:50 14:40-14:57/17 16:03 10:20-11:10/50
Potential sun hours	521	465	383	326	253	225
Sum of minutes with flicker	2237	855	0	0	934	1983

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 9 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June
1	08:50	08:17 15:50-16:16/26	07:16	06:58 19:10-19:29/19	05:45	04:52
	16:04	16:58	17:57	19:59	20:58	21:52
2	08:50	08:15 15:50-16:16/26	07:14	06:55 19:07-19:31/24	05:43	04:51
	16:05	17:00	17:59	20:01	21:00	21:53
3	08:50	08:13 15:51-16:16/25	07:12	06:53 19:05-19:33/28	05:41	04:50
	16:06	17:02	18:01	20:03	21:02	21:54
4	08:49	08:12 15:51-16:16/25	07:09	06:50 19:03-19:34/31	05:38	04:49
	16:08	17:04	18:03	20:05	21:04	21:56
5	08:49	08:10 15:52-16:15/23	07:07	06:48 19:02-19:35/33	05:36	04:48
	16:09	17:07	18:05	20:07	21:06	21:57
6	08:49	08:08 15:53-16:15/22	07:04	06:45 19:00-19:35/35	05:34	04:47
	16:10	17:09	18:07	20:09	21:08	21:58
7	08:48	08:06 15:54-16:15/21	07:02	06:43 19:00-19:36/36	05:32	04:47
	16:12	17:11	18:10	20:11	21:10	21:59
8	08:48	08:04 15:55-16:14/19	06:59	06:40 18:58-19:36/38	05:30	04:46
	16:13	17:13	18:12	20:13	21:12	22:00
9	08:47	08:02 15:56-16:11/15	06:57	06:37 18:58-19:36/38	05:28	04:45
	16:15	17:15	18:14	20:15	21:14	22:01
10	08:46	08:00 15:59-16:10/11	06:54	06:35 18:57-19:36/39	05:26	04:45
	16:16	17:17	18:16	20:17	21:15	22:02
11	08:45	07:58	06:52	06:32 18:57-19:36/39	05:24	04:44
	16:18	17:19	18:18	20:19	21:17	22:03
12	08:45	07:55	06:49	06:30 18:57-19:37/40	05:22	04:44
	16:20	17:21	18:20	20:21	21:19	22:04
13	08:44	07:53	06:46	06:27 18:56-19:36/40	05:20	04:43
	16:21	17:24	18:22	20:23	21:21	22:04
14	08:43	07:51	06:44	06:25 18:56-19:36/40	05:19	04:43
	16:23	17:26	18:24	20:25	21:23	22:05
15	08:42	07:49	06:41	06:23 18:56-19:35/39	05:17	04:43
	16:25	17:28	18:26	20:27	21:25	22:06
16	08:41	07:47	06:39	06:20 18:56-19:35/39	05:15	04:43
	16:26	17:30	18:28	20:29	21:26	22:06
17	08:40	07:45	06:36	06:18 18:57-19:34/37	05:13	04:42
	16:28	17:32	18:30	20:31	21:28	22:07
18	08:38	07:42	06:34	06:15 18:56-19:33/37	05:11	04:42
	16:30	17:34	18:32	20:33	21:30	22:07
19	08:37	07:40	06:31	06:13 18:57-19:32/35	05:10	04:42
	16:32	17:36	18:34	20:35	21:32	22:08
20	08:36	07:38	06:29	06:10 18:58-19:31/33	05:08	04:42
	16:34	17:38	18:36	20:37	21:33	22:08
21	08:35 15:55-15:59/4	07:35	06:26	06:08 18:58-19:30/32	05:07	04:42
	16:36	17:41	18:38	20:39	21:35	22:08
22	08:33 15:54-16:02/8	07:33	06:23	06:06 19:00-19:29/29	05:05	04:43
	16:38	17:43	18:40	20:41	21:37	22:08
23	08:32 15:53-16:04/11	07:31	06:21	06:03 19:01-19:27/26	05:03	04:43
	16:40	17:45	18:42	20:43	21:38	22:09
24	08:30 15:52-16:06/14	07:28	06:18	06:01 19:03-19:26/23	05:02	04:43
	16:42	17:47	18:44	20:45	21:40	22:09
25	08:29 15:52-16:09/17	07:26	06:16	05:59 19:04-19:22/18	05:01	04:44
	16:44	17:49	18:45	20:46	21:42	22:09
26	08:27 15:51-16:11/20	07:24	06:13	05:56 19:08-19:19/11	04:59	04:44
	16:46	17:51	18:47	20:48	21:43	22:09
27	08:26 15:51-16:13/22	07:21	06:11	05:54	04:58	04:44
	16:48	17:53	18:49	20:50	21:45	22:08
28	08:24 15:50-16:14/24	07:19	06:08	05:52	04:57	04:45
	16:50	17:55	18:51	20:52	21:46	22:08
29	08:22 15:50-16:15/25		07:05	05:49	04:55	04:46
	16:52		19:53	20:54	21:48	22:08
30	08:21 15:50-16:15/25		07:03	05:47	04:54	04:46
	16:54		19:55	20:56	21:49	22:08
31	08:19 15:50-16:16/26		07:00 19:14-19:26/12		04:53	
	16:56		19:57		21:50	
Potential sun hours	242	269	366	423	501	519
Sum of minutes with flicker	196	213	12	839	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 9 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October	November	December
1	04:47	05:30	06:28 18:56-19:35/39	07:24	07:26 15:28-15:40/12	08:25
	22:07	21:29	20:19	19:02	16:48	16:00
2	04:48	05:31	06:30 18:56-19:35/39	07:26	07:28 15:26-15:41/15	08:26
	22:07	21:27	20:17	18:59	16:46	15:59
3	04:49	05:33	06:31 18:56-19:35/39	07:28	07:30 15:25-15:44/19	08:28
	22:07	21:25	20:14	18:57	16:44	15:58
4	04:49	05:35	06:33 18:56-19:34/38	07:30	07:32 15:24-15:44/20	08:29
	22:06	21:23	20:11	18:54	16:41	15:58
5	04:50	05:37	06:35 18:56-19:32/36	07:32	07:34 15:22-15:45/23	08:31
	22:05	21:21	20:09	18:52	16:39	15:57
6	04:51	05:39	06:37 18:56-19:31/35	07:34	07:37 15:22-15:45/23	08:32
	22:05	21:19	20:06	18:49	16:37	15:56
7	04:52	05:41	06:39 18:57-19:30/33	07:36	07:39 15:22-15:47/25	08:34
	22:04	21:17	20:04	18:47	16:36	15:56
8	04:53	05:42	06:41 18:58-19:29/31	07:38	07:41 15:21-15:47/26	08:35
	22:03	21:15	20:01	18:44	16:34	15:55
9	04:55	05:44	06:43 18:59-19:27/28	07:40	07:43 15:21-15:47/26	08:36
	22:02	21:13	19:59	18:42	16:32	15:55
10	04:56	05:46	06:45 19:00-19:24/24	07:42	07:45 15:21-15:47/26	08:38
	22:01	21:11	19:56	18:39	16:30	15:55
11	04:57	05:48	06:47 19:02-19:22/20	07:44	07:47 15:22-15:47/25	08:39
	22:00	21:09	19:54	18:37	16:28	15:54
12	04:58	05:50	06:48 19:05-19:18/13	07:46	07:49 15:22-15:47/25	08:40
	21:59	21:07	19:51	18:34	16:26	15:54
13	04:59	05:52	06:50	07:48	07:51 15:22-15:47/25	08:41
	21:58	21:04	19:48	18:32	16:24	15:54
14	05:01	05:54	06:52	07:50	07:53 15:22-15:46/24	08:42
	21:57	21:02	19:46	18:29	16:23	15:54
15	05:02	05:56	06:54	07:52	07:55 15:24-15:46/22	08:43
	21:56	21:00	19:43	18:27	16:21	15:54
16	05:04	05:57	06:56	07:54	07:57 15:24-15:44/20	08:44
	21:55	20:58	19:41	18:24	16:19	15:54
17	05:05	05:59 19:13-19:27/14	06:58	07:56	07:59 15:25-15:42/17	08:45
	21:54	20:55	19:38	18:22	16:18	15:54
18	05:06	06:01 19:10-19:29/19	07:00	07:58	08:01 15:26-15:40/14	08:46
	21:52	20:53	19:36	18:20	16:16	15:54
19	05:08	06:03 19:08-19:31/23	07:02	08:00	08:03 15:27-15:38/11	08:46
	21:51	20:51	19:33	18:17	16:15	15:54
20	05:10	06:05 19:06-19:33/27	07:03	08:02	08:05 15:29-15:37/8	08:47
	21:50	20:48	19:30	18:15	16:13	15:55
21	05:11	06:07 19:04-19:33/29	07:05	08:04	08:07 15:31-15:35/4	08:48
	21:48	20:46	19:28	18:12	16:12	15:55
22	05:13	06:09 19:03-19:34/31	07:07	08:06	08:09	08:48
	21:47	20:44	19:25	18:10	16:10	15:56
23	05:14	06:11 19:02-19:35/33	07:09	08:08	08:10	08:49
	21:45	20:41	19:23	18:08	16:09	15:56
24	05:16	06:13 19:01-19:36/35	07:11	08:10	08:12	08:49
	21:43	20:39	19:20	18:05	16:08	15:57
25	05:18	06:14 19:00-19:37/37	07:13	07:12	08:14	08:50
	21:42	20:36	19:17	17:03	16:06	15:57
26	05:19	06:16 18:58-19:36/38	07:15	07:14	08:16	08:50
	21:40	20:34	19:15	17:01	16:05	15:58
27	05:21	06:18 18:58-19:36/38	07:17	07:16	08:18	08:50
	21:38	20:31	19:12	16:59	16:04	15:59
28	05:23	06:20 18:57-19:37/40	07:19	07:18	08:19	08:50
	21:37	20:29	19:10	16:56	16:03	16:00
29	05:24	06:22 18:57-19:37/40	07:21	07:20	08:21	08:50
	21:35	20:27	19:07	16:54	16:02	16:01
30	05:26	06:24 18:57-19:37/40	07:22	07:22	08:23	08:50
	21:33	20:24	19:04	16:52	16:01	16:02
31	05:28	06:26 18:56-19:36/40		07:24 15:33-15:35/2		08:50
	21:31	20:22		16:50		16:03
Potential sun hours	521	465	383	326	253	225
Sum of minutes with flicker	0	484	375	2	410	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 10 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June
1	08:50 12:20-13:25/65	08:17 12:26-13:39/73	07:16	06:58	05:45	04:52
	16:04	16:58	17:57	19:59	20:58	21:52
2	08:50 12:19-13:26/67	08:15 12:27-13:39/72	07:14	06:55	05:43	04:51
	16:05	17:00	17:59	20:01	21:00	21:53
3	08:50 12:20-13:27/67	08:13 12:27-13:38/71	07:11	06:53	05:41	04:50
	16:06	17:02	18:01	20:03	21:02	21:54
4	08:49 12:20-13:27/67	08:12 12:28-13:38/70	07:09	06:50	05:38	04:49
	16:08	17:04	18:03	20:05	21:04	21:56
5	08:49 12:21-13:28/67	08:10 12:29-13:38/69	07:06 17:28-17:37/9	06:47	05:36	04:48
	16:09	17:06	18:05	20:07	21:06	21:57
6	08:49 12:21-13:28/67	08:08 12:29-13:38/69	07:04 17:25-17:40/15	06:45	05:34	04:47
	16:10	17:09	18:07	20:09	21:08	21:58
7	08:48 12:20-13:29/69	08:06 12:30-13:37/67	07:02 17:23-17:41/18	06:42	05:32	04:46
	16:12	17:11	18:09	20:11	21:10	21:59
8	08:47 12:22-13:30/68	08:04 12:31-13:37/66	06:59 17:22-17:44/22	06:40	05:30	04:46
	16:13	17:13	18:11	20:13	21:12	22:00
9	08:47 12:22-13:31/69	08:02 12:31-13:35/64	06:57 17:20-17:46/26	06:37	05:28	04:45
	16:15	17:15	18:13	20:15	21:14	22:01
10	08:46 12:22-13:32/70	08:00 12:33-13:35/62	06:54 17:19-17:47/28	06:35	05:26	04:45
	16:16	17:17	18:16	20:17	21:15	22:02
11	08:45 12:22-13:32/70	07:58 12:34-13:34/60	06:51 17:18-17:47/29	06:32	05:24	04:44
	16:18	17:19	18:18	20:19	21:17	22:03
12	08:44 12:22-13:33/71	07:55 12:35-13:33/58	06:49 17:18-17:48/30	06:30	05:22	04:44
	16:19	17:21	18:20	20:21	21:19	22:03
13	08:44 12:21-13:33/72	07:53 12:36-13:31/55	06:46 17:17-17:48/31	06:27	05:20	04:43
	16:21	17:24	18:22	20:23	21:21	22:04
14	08:43 12:22-13:33/71	07:51 12:38-13:30/52	06:44 17:16-17:47/31	06:25	05:18	04:43
	16:23	17:26	18:24	20:25	21:23	22:05
15	08:42 12:22-13:34/72	07:49 12:40-13:29/49	06:41 17:16-17:48/32	06:22	05:17	04:43
	16:25	17:28	18:26	20:27	21:25	22:06
16	08:41 12:23-13:35/72	07:47 12:41-13:26/45	06:39 17:16-17:47/31	06:20	05:15	04:42
	16:26	17:30	18:28	20:29	21:26	22:06
17	08:39 12:22-13:35/73	07:44 12:44-13:24/40	06:36 17:16-17:47/31	06:18	05:13	04:42
	16:28	17:32	18:30	20:31	21:28	22:07
18	08:38 12:23-13:36/73	07:42 12:47-13:22/35	06:34 17:16-17:45/29	06:15	05:11	04:42
	16:30	17:34	18:32	20:33	21:30	22:07
19	08:37 12:22-13:36/74	07:40 12:50-13:18/28	06:31 17:16-17:44/28	06:13	05:10	04:42
	16:32	17:36	18:34	20:35	21:32	22:08
20	08:36 12:23-13:37/74	07:38 12:56-13:12/16	06:29 17:18-17:43/25	06:10	05:08	04:42
	16:34	17:38	18:36	20:37	21:33	22:08
21	08:35 12:23-13:37/74	07:35	06:26 17:18-17:41/23	06:08	05:06	04:42
	16:36	17:40	18:37	20:39	21:35	22:08
22	08:33 12:24-13:38/74	07:33	06:23 17:20-17:40/20	06:06	05:05	04:43
	16:38	17:43	18:39	20:41	21:37	22:08
23	08:32 12:24-13:38/74	07:31	06:21 17:22-17:37/15	06:03	05:03	04:43
	16:40	17:45	18:41	20:42	21:38	22:08
24	08:30 12:24-13:38/74	07:28	06:18 17:25-17:32/7	06:01	05:02	04:43
	16:42	17:47	18:43	20:44	21:40	22:09
25	08:29 12:25-13:39/74	07:26	06:16	05:58	05:00	04:43
	16:44	17:49	18:45	20:46	21:42	22:09
26	08:27 12:25-13:39/74	07:24	06:13	05:56	04:59	04:44
	16:46	17:51	18:47	20:48	21:43	22:09
27	08:26 12:25-13:39/74	07:21	06:11	05:54	04:58	04:44
	16:48	17:53	18:49	20:50	21:45	22:08
28	08:24 12:25-13:39/74	07:19	06:08	05:52	04:56	04:45
	16:50	17:55	18:51	20:52	21:46	22:08
29	08:22 12:25-13:39/74		07:05	05:49	04:55	04:45
	16:52		19:53	20:54	21:48	22:08
30	08:21 12:25-13:39/74		07:03	05:47	04:54	04:46
	16:54		19:55	20:56	21:49	22:08
31	08:19 12:26-13:39/73		07:00		04:53	
	16:56		19:57		21:50	
Potential sun hours	242	269	366	423	501	519
Sum of minutes with flicker	2211	1121	480	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Planuojamos VE WTG: 10 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October	November	December
1	04:47	05:30	06:28	07:24 17:57-18:27/30	07:26 12:02-13:05/63	08:24 12:04-13:14/70
	22:07	21:29	20:19	19:02	16:48	16:00
2	04:48	05:31	06:29	07:26 17:57-18:27/30	07:28 12:01-13:05/64	08:26 12:04-13:14/70
	22:07	21:27	20:16	18:59	16:46	15:59
3	04:48	05:33	06:31	07:28 17:57-18:26/29	07:30 12:01-13:07/66	08:28 12:05-13:14/69
	22:06	21:25	20:14	18:57	16:43	15:58
4	04:49	05:35	06:33	07:30 17:57-18:25/28	07:32 12:00-13:07/67	08:29 12:06-13:15/69
	22:06	21:23	20:11	18:54	16:41	15:58
5	04:50	05:37	06:35	07:32 17:58-18:22/24	07:34 11:59-13:07/68	08:31 12:06-13:14/68
	22:05	21:21	20:09	18:52	16:39	15:57
6	04:51	05:39	06:37	07:34 17:59-18:19/20	07:36 11:58-13:08/70	08:32 12:07-13:15/68
	22:05	21:19	20:06	18:49	16:37	15:56
7	04:52	05:40	06:39	07:36 18:01-18:17/16	07:39 11:59-13:09/70	08:34 12:08-13:15/67
	22:04	21:17	20:04	18:47	16:35	15:56
8	04:53	05:42	06:41	07:38 18:03-18:14/11	07:41 11:58-13:09/71	08:35 12:08-13:15/67
	22:03	21:15	20:01	18:44	16:33	15:55
9	04:54	05:44	06:43	07:40 18:07-18:12/5	07:43 11:57-13:09/72	08:36 12:08-13:15/67
	22:02	21:13	19:59	18:42	16:32	15:55
10	04:56	05:46	06:45	07:42	07:45 11:57-13:09/72	08:38 12:09-13:16/67
	22:01	21:11	19:56	18:39	16:30	15:54
11	04:57	05:48	06:46	07:44	07:47 11:58-13:11/73	08:39 12:10-13:16/66
	22:00	21:09	19:54	18:37	16:28	15:54
12	04:58	05:50	06:48	07:46	07:49 11:57-13:11/74	08:40 12:10-13:16/66
	21:59	21:07	19:51	18:34	16:26	15:54
13	04:59	05:52	06:50	07:48	07:51 11:57-13:11/74	08:41 12:11-13:16/65
	21:58	21:04	19:48	18:32	16:24	15:54
14	05:01	05:54	06:52	07:50	07:53 11:57-13:11/74	08:42 12:12-13:17/65
	21:57	21:02	19:46	18:29	16:23	15:54
15	05:02	05:55	06:54	07:52	07:55 11:58-13:12/74	08:43 12:13-13:17/64
	21:56	21:00	19:43	18:27	16:21	15:54
16	05:03	05:57	06:56	07:54	07:57 11:58-13:12/74	08:44 12:12-13:17/65
	21:55	20:58	19:41	18:24	16:19	15:54
17	05:05	05:59	06:58	07:56	07:59 11:58-13:12/74	08:45 12:13-13:17/64
	21:54	20:55	19:38	18:22	16:18	15:54
18	05:06	06:01	07:00	07:58	08:01 11:58-13:12/74	08:46 12:14-13:18/64
	21:52	20:53	19:35	18:19	16:16	15:54
19	05:08	06:03	07:01 18:16-18:17/1	08:00	08:03 11:58-13:12/74	08:46 12:15-13:18/63
	21:51	20:51	19:33	18:17	16:14	15:54
20	05:09	06:05	07:03 18:09-18:23/14	08:02	08:05 11:59-13:13/74	08:47 12:15-13:19/64
	21:49	20:48	19:30	18:15	16:13	15:55
21	05:11	06:07	07:05 18:06-18:25/19	08:04	08:07 11:59-13:13/74	08:48 12:15-13:19/64
	21:48	20:46	19:28	18:12	16:12	15:55
22	05:13	06:09	07:07 18:03-18:26/23	08:06 13:25-13:45/20	08:08 11:59-13:13/74	08:48 12:16-13:20/64
	21:46	20:44	19:25	18:10	16:10	15:55
23	05:14	06:11	07:09 18:02-18:27/25	08:08 13:19-13:49/30	08:10 12:00-13:13/73	08:49 12:16-13:20/64
	21:45	20:41	19:22	18:08	16:09	15:56
24	05:16	06:12	07:11 18:00-18:27/27	08:10 13:16-13:52/36	08:12 12:00-13:13/73	08:49 12:16-13:20/64
	21:43	20:39	19:20	18:05	16:08	15:57
25	05:17	06:14	07:13 17:59-18:28/29	07:12 12:14-12:55/41	08:14 12:00-13:13/73	08:50 12:18-13:22/64
	21:42	20:36	19:17	17:03	16:06	15:57
26	05:19	06:16	07:15 17:58-18:28/30	07:14 12:11-12:57/46	08:16 12:01-13:13/72	08:50 12:18-13:22/64
	21:40	20:34	19:15	17:01	16:05	15:58
27	05:21	06:18	07:17 17:58-18:28/30	07:16 12:09-12:59/50	08:18 12:01-13:13/72	08:50 12:18-13:22/64
	21:38	20:31	19:12	16:59	16:04	15:59
28	05:23	06:20	07:19 17:57-18:28/31	07:18 12:07-13:00/53	08:19 12:02-13:14/72	08:50 12:19-13:23/64
	21:37	20:29	19:10	16:56	16:03	16:00
29	05:24	06:22	07:20 17:57-18:28/31	07:20 12:05-13:01/56	08:21 12:03-13:14/71	08:50 12:19-13:24/65
	21:35	20:26	19:07	16:54	16:02	16:00
30	05:26	06:24	07:22 17:57-18:28/31	07:22 12:05-13:03/58	08:23 12:03-13:14/71	08:50 12:19-13:24/65
	21:33	20:24	19:04	16:52	16:01	16:01
31	05:28	06:26		07:24 12:03-13:04/61		08:50 12:19-13:24/65
	21:31	20:21		16:50		16:02
Potential sun hours	521	465	383	326	253	225
Sum of minutes with flicker	0	0	291	644	2147	2035

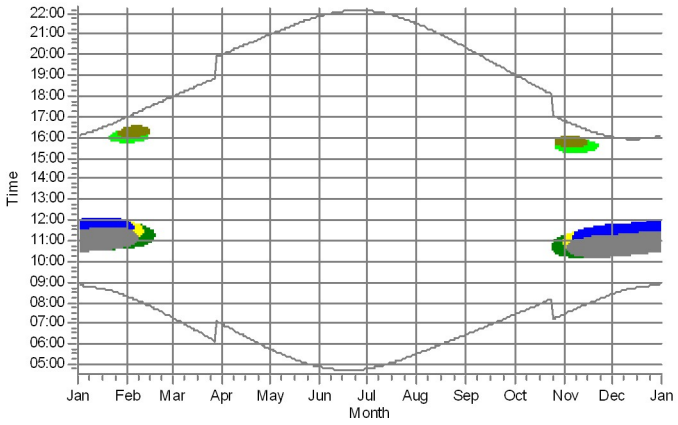
Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

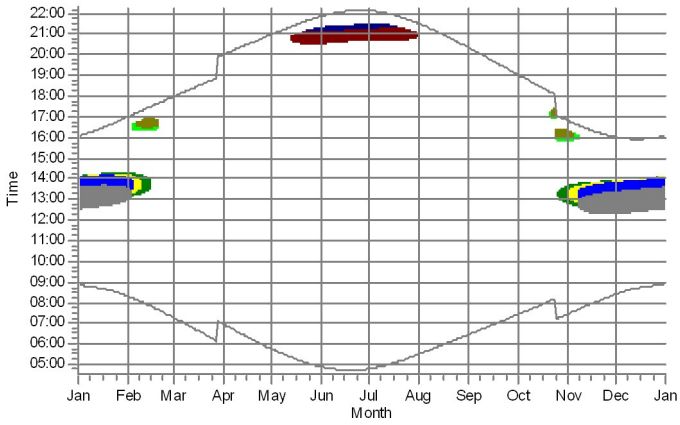
SHADOW - Calendar per WTG, graphical

Calculation: Planuojamos VE

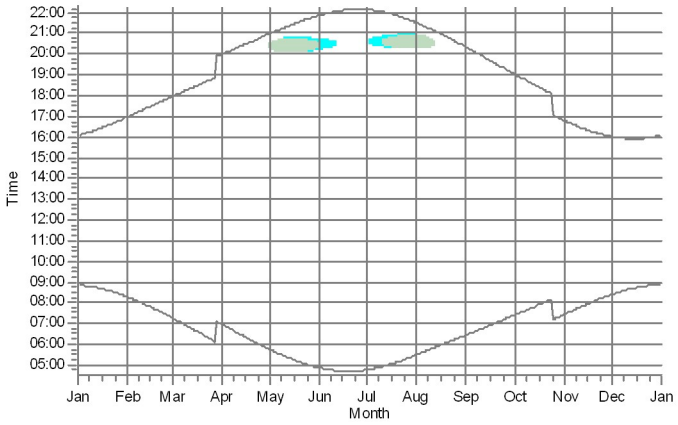
1: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)



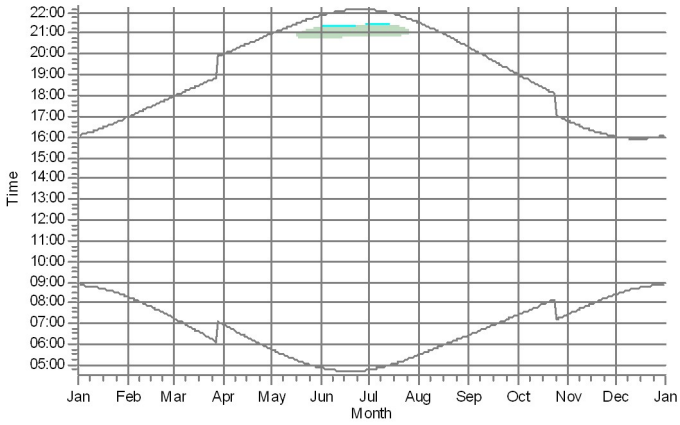
2: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)



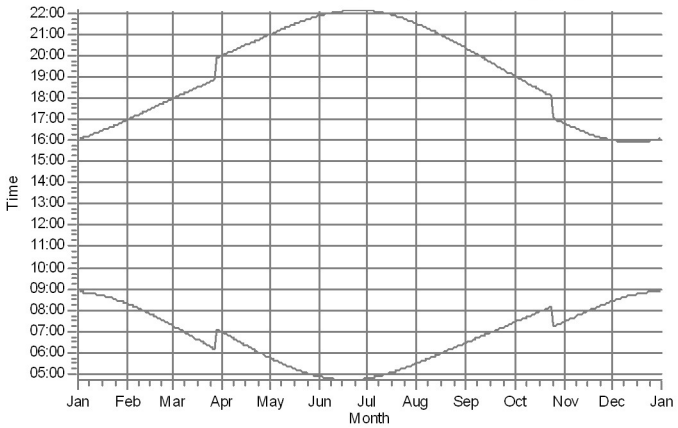
3: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (17)



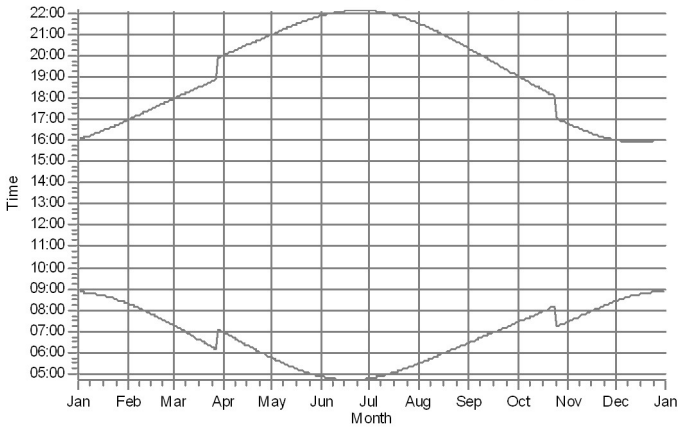
4: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (18)



5: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (19)



6: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (20)



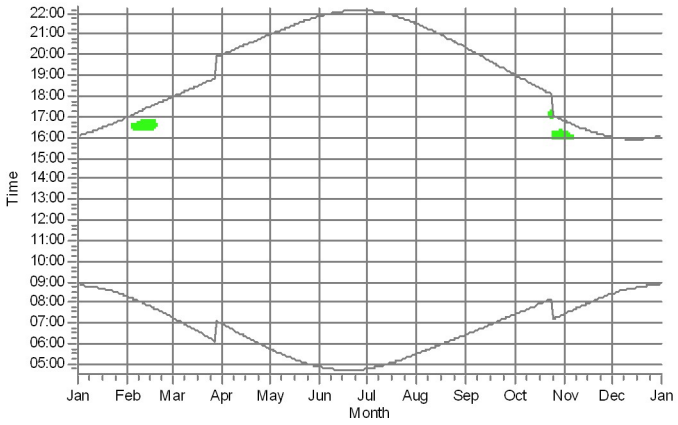
Shadow receptors

- A: Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)
- B: Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (2)
- C: Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)
- D: Gyvenamasis pastatas: Neturi adreso (4)
- G: Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)
- H: Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)
- I: Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)
- J: Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (10)
- M: Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)
- N: Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

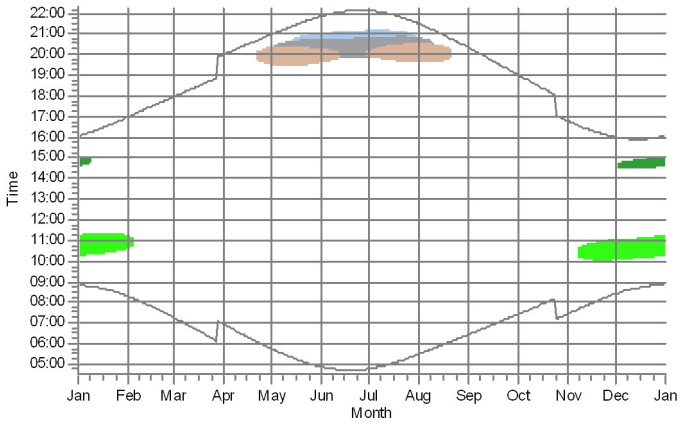
SHADOW - Calendar per WTG, graphical

Calculation: Planuojamos VE

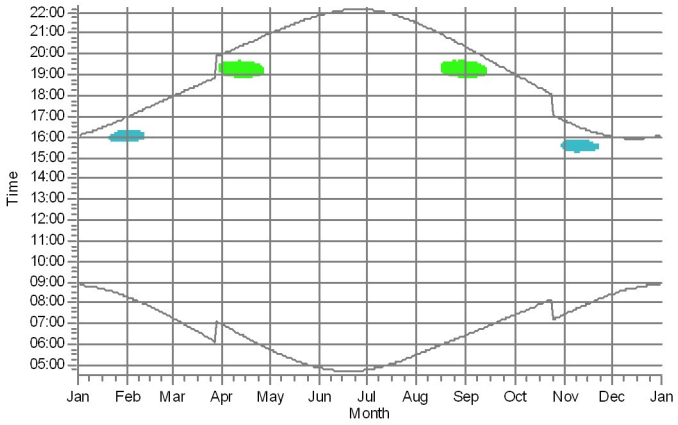
7: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (21)



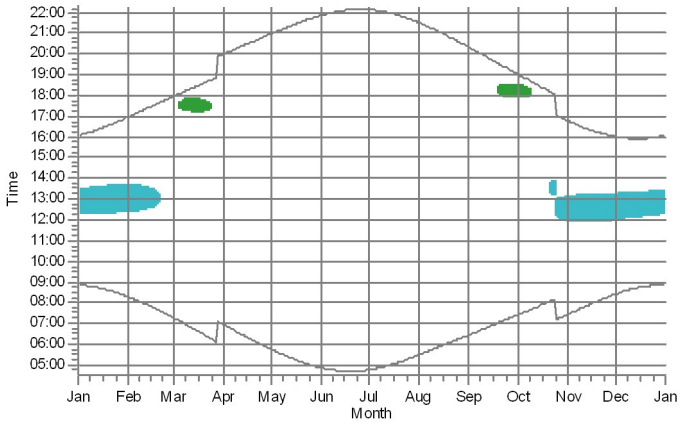
8: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)



9: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)



10: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (25)

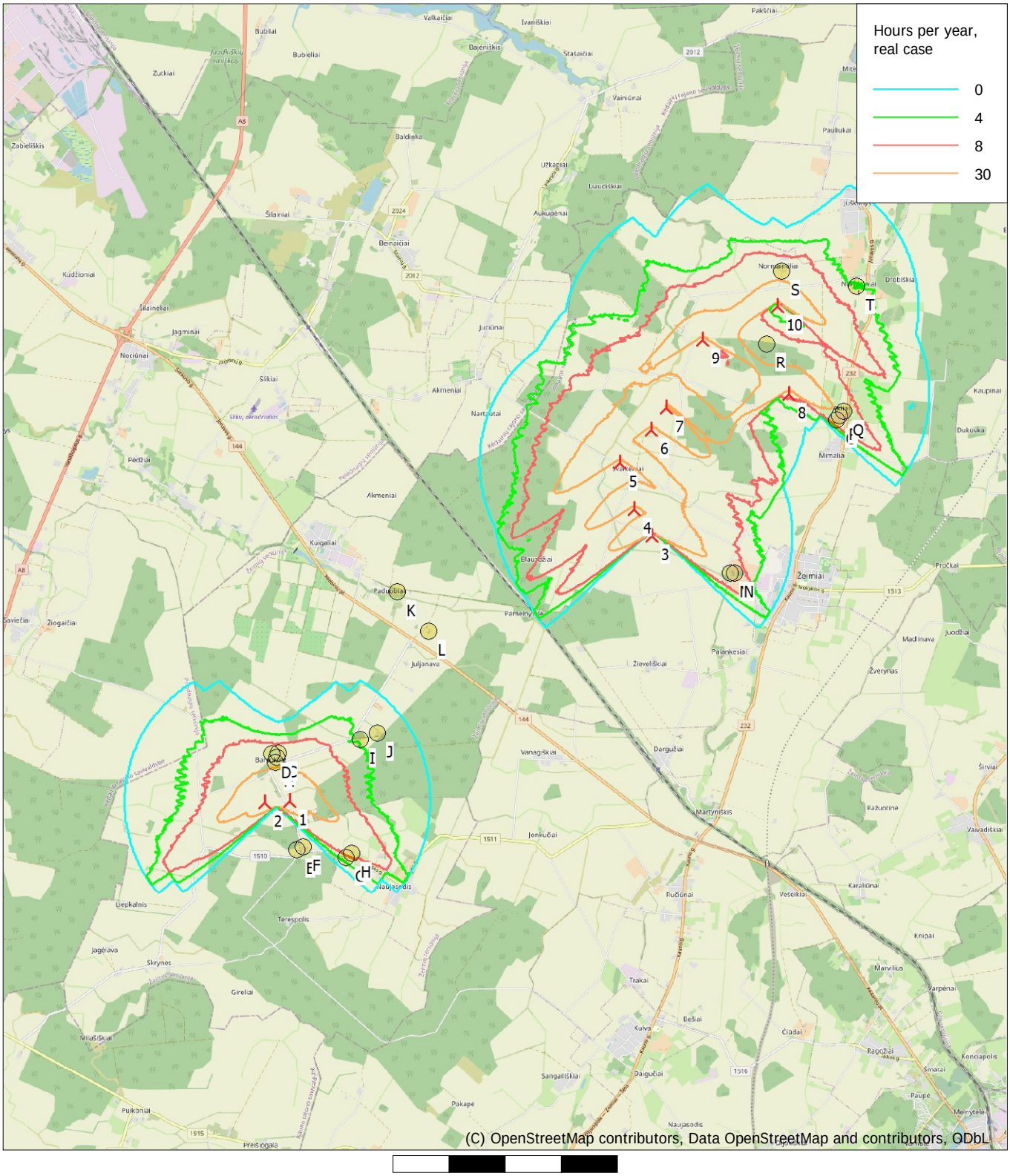


Shadow receptors

- O: Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)
- P: Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)
- Q: Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)
- R: Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)
- S: Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)
- T: Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)

SHADOW - Map

Calculation: Planuojamos VE



Map: EMD OpenStreetMap , Print scale 1:100 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 509 300 North: 6 116 580

New WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

SHADOW - Main Result

Calculation: Foninës VE

Assumptions for shadow calculations

Maximum distance for influence
Calculate only when more than 20 % of sun is covered by the blade
Please look in WTG table

Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

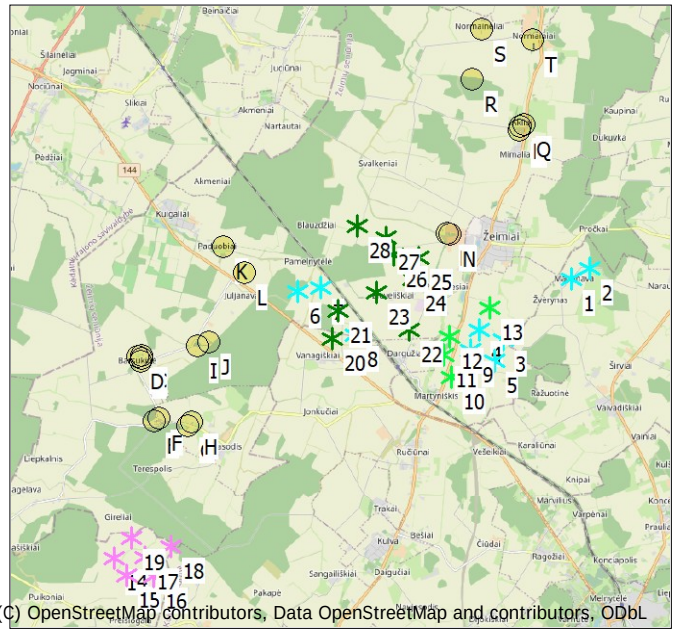
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

Monthly aggregation of real case reduction
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)
Receptor grid resolution: 1,0 m
Topographic shadow included in calculation

All coordinates are in
Lithuanian TM LKS94-LKS94 (LT)



Scale 1:200 000

Existing WTG Shadow receptor

WTGs

	Y	X	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
1	516 258	6 115 067	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
2	516 724	6 115 361	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
3	514 431	6 113 473	69,2	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
4	513 801	6 113 708	67,7	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
5	514 206	6 112 903	67,5	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
6	508 976	6 114 735	60,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
7	509 582	6 114 845	60,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
8	510 506	6 113 569	66,9	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
9	513 575	6 113 197	64,7	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
10	513 058	6 112 467	63,6	GE WIND ENERGY 5....	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	1 816	-
11	512 838	6 113 059	61,2	GE WIND ENERGY 5....	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	1 816	-
12	512 996	6 113 540	63,8	GE WIND ENERGY 5....	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	1 816	-
13	514 062	6 114 314	70,0	GE WIND ENERGY 5....	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	1 816	-
14	504 125	6 107 635	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
15	504 453	6 107 182	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
16	505 171	6 107 171	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
17	504 923	6 107 664	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
18	505 608	6 107 960	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
19	504 569	6 108 172	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
20	509 897	6 113 484	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
21	510 043	6 114 232	61,7	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
22	511 915	6 113 715	64,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
23	511 063	6 114 701	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
24	512 024	6 115 057	62,7	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
25	512 170	6 115 628	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
26	511 515	6 115 700	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
27	511 319	6 116 162	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
28	510 542	6 116 457	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-

Shadow receptor-Input

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
A	Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)	504 817	6 112 855	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
B	Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (2)	504 839	6 112 938	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

SHADOW - Main Result

Calculation: Foninës VE

...continued from previous page

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
C	Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)	504 857	6 113 018	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
D	Gyvenamasis pastatas: Neturi adreso (4)	504 749	6 113 003	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
E	Gyvenamasis pastatas: Neturi adreso (5)	505 193	6 111 302	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
F	Gyvenamasis pastatas: Neturi adreso (6)	505 303	6 111 351	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G	Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)	506 074	6 111 169	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
H	Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)	506 175	6 111 241	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
I	Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)	506 325	6 113 257	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
J	Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (10)	506 632	6 113 377	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
K	Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)	506 986	6 115 906	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
L	Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)	507 555	6 115 201	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
M	Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)	512 944	6 116 258	64,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
N	Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)	513 024	6 116 250	66,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
O	Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)	514 833	6 118 996	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
P	Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)	514 878	6 119 076	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
Q	Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)	514 963	6 119 150	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R	Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)	513 588	6 120 356	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
S	Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)	513 846	6 121 657	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
T	Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)	515 192	6 121 383	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

Calculation Results

Shadow receptor

No.	Name	Shadow, expected values Shadow hours per year [h/year]
A	Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)	0:00
B	Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (2)	0:00
C	Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)	0:00
D	Gyvenamasis pastatas: Neturi adreso (4)	0:00
E	Gyvenamasis pastatas: Neturi adreso (5)	0:00
F	Gyvenamasis pastatas: Neturi adreso (6)	0:00
G	Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)	0:00
H	Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)	0:00
I	Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)	0:00
J	Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (10)	0:00
K	Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)	0:43
L	Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)	3:17
M	Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)	10:59
N	Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)	9:44
O	Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)	0:00
P	Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)	0:00
Q	Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)	0:00
R	Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)	0:00
S	Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)	0:00
T	Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)	0:00

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Expected [h/year]
1	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (1)	0:00
2	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (2)	0:00
3	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (3)	0:00
4	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (4)	0:00
5	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (5)	0:00
6	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (6)	2:54
7	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (7)	1:07
8	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (8)	0:00
9	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (9)	0:00
10	GE WIND ENERGY 5.5-158 Thrust 665 5500 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (10)	0:00
11	GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (11)	0:00
12	GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (12)	0:00
13	GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (13)	0:00
14	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (14)	0:00
15	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (15)	0:00
16	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (16)	0:00
17	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (17)	0:00

To be continued on next page...

SHADOW - Main Result

Calculation: Foninës VE

...continued from previous page

No.	Name	Expected [h/year]
18	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (18)	0:00
19	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (19)	0:00
20	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (20)	0:00
21	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (21)	0:00
22	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (22)	0:00
23	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (23)	0:00
24	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (24)	3:48
25	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (25)	5:52
26	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (26)	2:19
27	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (27)	2:08
28	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (28)	0:00

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: A - Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:16	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:29	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:07	21:26	20:14	18:57	16:44	15:59
4	08:50	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:56	22:06	21:24	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:33	07:35	08:31
	16:10	17:07	18:06	20:08	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	15:57
8	08:48	08:04	07:00	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:01	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:56	19:39	18:23	16:18	15:55
18	08:38	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:47
	16:33	17:37	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15	16:14	15:56
21	08:35	07:36	06:27	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:11	08:49
	16:41	17:45	18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:50
	16:45	17:50	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:39	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20	08:50
	16:51	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:23		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:55	21:48	22:08	21:35	20:27	19:08	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:57	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: B - Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:16	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:29	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:07	21:26	20:14	18:57	16:44	15:59
4	08:50	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:56	22:06	21:24	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:33	07:35	08:31
	16:10	17:07	18:06	20:08	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	15:57
8	08:48	08:04	07:00	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:01	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
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16	08:41	07:47	06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57	08:44
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17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
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18	08:38	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:47
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20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
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21	08:35	07:36	06:27	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:11	08:49
	16:41	17:45	18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:50
	16:45	17:50	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
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	16:49	17:54	18:50	20:51	21:45	22:08	21:39	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20	08:50
	16:51	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:23		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:55	21:48	22:08	21:35	20:27	19:08	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:57	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: C - Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:16	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:29	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:07	21:26	20:14	18:57	16:44	15:59
4	08:50	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:56	22:06	21:24	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:33	07:35	08:31
	16:10	17:07	18:06	20:08	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	15:57
8	08:48	08:04	07:00	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:01	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:56	19:39	18:23	16:18	15:55
18	08:38	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:47
	16:33	17:37	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15	16:14	15:56
21	08:35	07:36	06:27	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:11	08:49
	16:41	17:45	18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	15:58
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:45	17:50	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:39	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20	08:50
	16:51	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:23		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:55	21:48	22:08	21:35	20:27	19:08	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:57	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: D - Gyvenamasis pastatas: Neturi adreso (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:16	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:29	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:07	21:26	20:14	18:57	16:44	15:59
4	08:50	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:56	22:06	21:24	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:33	07:35	08:31
	16:10	17:07	18:06	20:08	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:05	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	15:57
8	08:48	08:04	07:00	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:18	22:03	22:01	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:56	19:39	18:23	16:18	15:55
18	08:39	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:47
	16:33	17:37	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15	16:14	15:56
21	08:35	07:36	06:27	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:11	08:49
	16:41	17:45	18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:50
	16:45	17:50	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:39	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20	08:50
	16:51	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:23		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:55	21:48	22:08	21:35	20:27	19:08	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:57	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:51		21:31	20:22		16:51		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: E - Gyvenamasis pastatas: Neturi adreso (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:06	21:26	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:24	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:48	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:56	19:38	18:23	16:19	15:55
18	08:38	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:49	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:50
	16:45	17:50	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:52	04:57	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: F - Gyvenamasis pastatas: Neturi adreso (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:06	21:26	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:24	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:48	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:56	19:38	18:23	16:18	15:55
18	08:38	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:49	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:50
	16:45	17:50	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
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27	08:26	07:22	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:52	04:57	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: G - Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30	07:33	08:29
	16:09	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:48	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:49
	16:45	17:49	18:46	20:47	21:42	22:08	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: H - Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30	07:33	08:29
	16:09	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:39	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:48	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:35	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:54	07:52	07:55	08:43
	16:26	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:47	21:42	22:08	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: I - Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:43	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:49	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:06	21:26	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30	07:33	08:29
	16:08	17:05	18:04	20:05	21:04	21:56	22:06	21:24	20:12	18:55	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:39	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:13	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:48	08:04	06:59	06:40	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:35	05:27	04:45	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:56	18:40	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:30	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:17	04:44	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:55
18	08:38	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:10	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:50	20:49	19:31	18:15	16:14	15:55
21	08:35	07:36	06:26	06:09	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:43	05:13	06:09	07:08	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:01	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:48	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:19	08:50
	16:50	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: J - Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:43	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:49	05:34	06:32	07:29	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:26	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30	07:33	08:29
	16:08	17:05	18:04	20:05	21:04	21:56	22:06	21:24	20:12	18:55	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:13	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:40	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:35	05:27	04:45	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:56	18:40	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:30	05:23	04:45	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:25	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:17	04:44	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:10	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:50	20:49	19:31	18:15	16:14	15:55
21	08:35	07:36	06:26	06:09	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:43	05:13	06:09	07:08	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:01	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:48	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:19	08:50
	16:50	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: K - Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February		March	April	May	June	July	August	September	October		November		December
1	08:50	08:17		07:17	06:58	05:45	04:52	04:48	05:30	06:28	07:25		07:26	07:57 (6)	08:25
	16:05	16:59		17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02		16:48	9 08:06 (6)	16:01
2	08:50	08:16		07:14	06:56	05:43	04:51	04:48	05:32	06:30	07:27		07:28	08:00 (6)	08:26
	16:06	17:01		18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00		16:46	5 08:05 (6)	16:00
3	08:50	08:14		07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:29		07:31	08:02 (6)	08:28
	16:07	17:03		18:02	20:03	21:02	21:54	22:07	21:26	20:14	18:57		16:44	2 08:04 (6)	15:59
4	08:50	08:12		07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30		07:33		08:29
	16:08	17:05		18:04	20:05	21:04	21:56	22:06	21:24	20:12	18:55		16:42		15:58
5	08:49	08:10		07:07	06:48	05:37	04:49	04:51	05:37	06:36	07:32		07:35		08:31
	16:10	17:07		18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52		16:40		15:58
6	08:49	08:08		07:04	06:45	05:35	04:48	04:52	05:39	06:38	07:34		07:37		08:32
	16:11	17:09		18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50		16:38		15:57
7	08:48	08:06		07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36		07:39		08:34
	16:12	17:11		18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47		16:36		15:56
8	08:48	08:04	08:32 (6)	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38		07:41		08:35
	16:14	17:13	2 08:34 (6)	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45		16:34		15:56
9	08:47	08:02	08:30 (6)	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40		07:43		08:36
	16:15	17:16	6 08:36 (6)	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42		16:32		15:55
10	08:46	08:00	08:27 (6)	06:54	06:35	05:27	04:45	04:56	05:47	06:45	07:42		07:45		08:38
	16:17	17:18	9 08:36 (6)	18:16	20:17	21:16	22:02	22:02	21:11	19:56	18:40		16:30		15:55
11	08:45	07:58	08:25 (6)	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44		07:47		08:39
	16:18	17:20	12 08:37 (6)	18:18	20:19	21:17	22:03	22:01	21:09	19:54	18:37		16:28		15:55
12	08:45	07:56	08:23 (6)	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46		07:49		08:40
	16:20	17:22	15 08:38 (6)	18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35		16:27		15:55
13	08:44	07:54	08:21 (6)	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48		07:51		08:41
	16:22	17:24	17 08:38 (6)	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32		16:25		15:54
14	08:43	07:51	08:21 (6)	06:44	06:25	05:19	04:44	05:01	05:54	06:53	07:50		07:53		08:42
	16:24	17:26	16 08:37 (6)	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30		16:23		15:54
15	08:42	07:49	08:21 (6)	06:42	06:23	05:17	04:43	05:03	05:56	06:54	07:52		07:55		08:43
	16:25	17:28	16 08:37 (6)	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27		16:21		15:54
16	08:41	07:47	08:22 (6)	06:39	06:21	05:15	04:43	05:04	05:58	06:56	07:54		07:57		08:44
	16:27	17:30	15 08:37 (6)	18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25		16:20		15:54
17	08:40	07:45	08:23 (6)	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56		07:59		08:45
	16:29	17:33	12 08:35 (6)	18:30	20:31	21:28	22:07	21:54	20:56	19:38	18:22		16:18		15:55
18	08:39	07:43	08:25 (6)	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58		08:01		08:46
	16:31	17:35	9 08:34 (6)	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20		16:17		15:55
19	08:37	07:40		06:32	06:13	05:10	04:43	05:09	06:04	07:02	08:00		08:03		08:47
	16:33	17:37		18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18		16:15		15:55
20	08:36	07:38		06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02		08:05		08:47
	16:34	17:39		18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15		16:14		15:55
21	08:35	07:36		06:26	06:08	05:07	04:43	05:12	06:07	07:06	08:04		08:07		08:48
	16:36	17:41		18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13		16:12		15:56
22	08:33	07:33		06:24	06:06	05:06	04:43	05:13	06:09	07:08	08:06		08:09		08:48
	16:38	17:43		18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:11		16:11		15:56
23	08:32	07:31		06:21	06:04	05:04	04:44	05:15	06:11	07:09	08:08	08:57 (6)	08:11		08:49
	16:40	17:45		18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	4 09:01 (6)	16:09		15:57
24	08:30	07:29		06:19	06:01	05:03	04:44	05:16	06:13	07:11	08:10	08:55 (6)	08:12		08:49
	16:42	17:47		18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	10 09:05 (6)	16:08		15:57
25	08:29	07:26		06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	07:53 (6)	08:14		08:50
	16:44	17:49		18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	13 08:06 (6)	16:07		15:58
26	08:27	07:24		06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	07:52 (6)	08:16		08:50
	16:46	17:51		18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:01	15 08:07 (6)	16:06		15:59
27	08:26	07:22		06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:16	07:51 (6)	08:18		08:50
	16:48	17:53		18:50	20:51	21:45	22:09	21:39	20:32	19:13	16:59	16 08:07 (6)	16:05		15:59
28	08:24	07:19		06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18	07:50 (6)	08:20		08:50
	16:50	17:56		18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	17 08:07 (6)	16:04		16:00
29	08:23			07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	07:51 (6)	08:21		08:50
	16:52			19:54	20:55	21:48	22:08	21:35	20:27	19:07	16:55	17 08:08 (6)	16:03		16:01
30	08:21			07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	07:53 (6)	08:23		08:50
	16:54			19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:52	14 08:07 (6)	16:02		16:02
31	08:19			07:01		04:54		05:28	06:26		07:24	07:55 (6)			08:50
	16:57			19:58		21:51		21:31	20:22		16:50	12 08:07 (6)			16:03
Potential sun hours	243	270		366	423	501	519	521	465	383	326		253		225
Total, worst case			129									118		16	
Sun reduction			0,25									0,31		0,16	
Oper. time red.			0,99									0,99		0,99	
Wind dir. red.			0,63									0,63		0,63	
Total reduction			0,15									0,19		0,10	
Total, real			20									23		2	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: L - Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	07:43 (6)	06:58	05:45	04:53	04:48	05:30	06:28	07:25	07:52 (7)	07:26	08:25
	16:05	16:59	17:58	15	07:58 (6)	20:00	20:58	21:52	22:07	21:29	20:19	19:02	32	08:37 (6)	16:48	16:01
2	08:50	08:15	07:14	07:41 (6)	06:56	05:43	04:51	04:48	05:32	06:30	07:27	07:54 (7)	07:28	08:26
	16:06	17:01	18:00	18	07:59 (6)	20:01	21:00	21:53	22:07	21:27	20:17	19:00	30	08:38 (6)	16:46	16:00
3	08:50	08:14	07:12	07:40 (6)	06:53	05:41	04:51	04:49	05:34	06:32	07:28	07:56 (7)	07:30	08:28
	16:07	17:03	18:02	21	08:01 (6)	20:03	21:02	21:54	22:07	21:26	20:14	18:57	27	08:38 (6)	16:44	15:59
4	08:49	08:12	07:09	07:38 (6)	06:50	05:39	04:50	04:50	05:36	06:34	07:30	08:14 (6)	07:33	08:29
	16:08	17:05	18:04	23	08:01 (6)	20:05	21:04	21:56	22:06	21:24	20:12	18:55	25	08:39 (6)	16:42	15:58
5	08:49	08:10	07:07	07:38 (6)	06:48	05:37	04:49	04:51	05:37	06:36	07:32	08:13 (6)	07:35	08:31
	16:10	17:07	18:06	24	08:02 (6)	20:07	21:06	21:57	22:05	21:22	20:09	18:52	25	08:38 (6)	16:40	15:58
6	08:49	08:08	07:04	07:37 (6)	06:45	05:35	04:48	04:52	05:39	06:37	07:34	08:13 (6)	07:37	08:32
	16:11	17:09	18:08	25	08:02 (6)	20:09	21:08	21:58	22:05	21:20	20:07	18:50	25	08:38 (6)	16:38	15:57
7	08:48	08:06	07:02	07:37 (6)	06:43	05:33	04:47	04:53	05:41	06:39	07:36	08:13 (6)	07:39	08:34
	16:12	17:11	18:10	25	08:02 (6)	20:11	21:10	21:59	22:04	21:17	20:04	18:47	25	08:38 (6)	16:36	15:56
8	08:48	08:04	06:59	07:36 (6)	06:40	05:31	04:46	04:54	05:43	06:41	07:38	08:13 (6)	07:41	08:35
	16:14	17:13	18:12	25	08:01 (6)	20:13	21:12	22:00	22:03	21:15	20:02	18:44	24	08:37 (6)	16:34	15:56
9	08:47	08:02	06:57	07:37 (6)	06:38	05:29	04:46	04:55	05:45	06:43	07:40	08:13 (6)	07:43	08:36
	16:15	17:16	18:14	25	08:02 (6)	20:15	21:14	22:01	22:02	21:13	19:59	18:42	23	08:36 (6)	16:32	15:55
10	08:46	08:00	06:54	07:19 (7)	06:35	05:27	04:45	04:56	05:47	06:45	07:42	08:14 (6)	07:45	08:38
	16:17	17:18	18:16	26	08:01 (6)	20:17	21:16	22:02	22:01	21:11	19:56	18:39	21	08:35 (6)	16:30	15:55
11	08:45	07:58	06:52	07:16 (7)	06:33	05:25	04:45	04:58	05:49	06:47	07:44	08:14 (6)	07:47	08:39
	16:18	17:20	18:18	30	07:59 (6)	20:19	21:17	22:03	22:00	21:09	19:54	18:37	20	08:34 (6)	16:28	15:55
12	08:45	07:56	06:49	07:14 (7)	06:30	05:23	04:44	04:59	05:50	06:49	07:46	08:16 (6)	07:49	08:40
	16:20	17:22	18:20	31	07:59 (6)	20:21	21:19	22:04	21:59	21:07	19:51	18:35	16	08:32 (6)	16:27	15:55
13	08:44	07:53	06:47	07:11 (7)	06:28	05:21	04:44	05:00	05:52	06:51	07:48	08:17 (6)	07:51	08:41
	16:22	17:24	18:22	33	07:57 (6)	20:23	21:21	22:04	21:58	21:05	19:49	18:32	13	08:30 (6)	16:25	15:54
14	08:43	07:51	06:44	07:09 (7)	06:25	05:19	04:44	05:01	05:54	06:53	07:50	08:21 (6)	07:53	08:42
	16:24	17:26	18:24	32	07:55 (6)	20:25	21:23	22:05	21:57	21:02	19:46	18:30	4	08:25 (6)	16:23	15:54
15	08:42	07:49	06:42	07:07 (7)	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	28	07:52 (6)	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:21	15:54
16	08:41	07:47	06:39	07:07 (7)	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	18	07:25 (7)	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:40	07:45	06:37	07:07 (7)	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	18	07:25 (7)	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	07:07 (7)	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	16	07:23 (7)	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	07:08 (7)	06:13	05:10	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	15	07:23 (7)	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	07:09 (7)	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	11	07:20 (7)	20:37	21:33	22:08	21:50	20:48	19:31	18:15	16:14	15:55
21	08:35	07:36	06:26	07:12 (7)	06:08	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:36	17:41	18:38	6	07:18 (7)	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:43	05:13	06:09	07:08	07:58 (7)	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	3	08:01 (7)	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:09	07:54 (7)	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:09	21:45	20:41	19:23	10	08:04 (7)	18:08	16:09	15:57
24	08:30	07:29	06:19	06:01	05:03	04:44	05:16	06:13	07:11	07:52 (7)	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	14	08:06 (7)	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:51 (7)	07:12	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:09	21:42	20:37	19:18	16	08:07 (7)	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:49 (7)	07:14	08:16	08:50
	16:46	17:51	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17	08:06 (7)	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:48 (7)	07:16	08:18	08:50
	16:48	17:53	18:50	20:51	21:45	22:08	21:38	20:32	19:13	18	08:06 (7)	16:59	16:05	15:59
28	08:24	07:19	07:46 (6)	06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:48 (7)	07:18	08:20	08:50
	16:50	17:56	9	07:55 (6)	18:52	20:53	21:46	22:08	21:37	20:29	19:10	24	08:31 (6)	16:57	16:04	16:00
29	08:22			07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:48 (7)	07:20	08:21	08:50
	16:52			19:54	20:54	21:48	22:08	21:35	20:27	19:07	31	08:34 (6)	16:55	16:03	16:01
30	08:21			07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:50 (7)	07:22	08:23	08:50
	16:54			19:56	20:56	21:49	22:08	21:33	20:24	19:05	32	08:36 (6)	16:52	16:02	16:02
31	08:19			07:01		04:54		05:28	06:26			07:24			08:50
	16:57			19:58		21:50		21:31	20:22			16:50			16:03
Potential sun hours	243	270		366		423	501	519	520	464	383		326		253	225
Total, worst case			9		465							165			310			
Sun reduction			0,25		0,34							0,40			0,31			
Oper. time red.			0,99		0,99							0,99			0,99			
Wind dir. red.			0,63		0,62							0,62			0,63			
Total reduction			0,15		0,21							0,24			0,19			
Total, real			1		98							40			59			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: M - Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March			April			May	June
1	08:50		14:58 (24)	08:17		15:55 (25)	07:16		17:01 (26)	06:58		18:55 (27)	05:45	04:52
	16:04	21	15:19 (24)	16:58	17	16:12 (25)	17:57	23	17:24 (26)	19:59	18	19:13 (27)	20:58	21:52
2	08:50		14:57 (24)	08:15		15:53 (25)	07:14		17:00 (26)	06:55		18:56 (27)	05:43	04:51
	16:05	22	15:19 (24)	17:00	21	16:14 (25)	17:59	24	17:24 (26)	20:01	16	19:12 (27)	21:00	21:53
3	08:50		14:58 (24)	08:13		15:52 (25)	07:11		17:00 (26)	06:53		18:58 (27)	05:41	04:50
	16:07	23	15:21 (24)	17:02	24	16:16 (25)	18:01	24	17:24 (26)	20:03	11	19:09 (27)	21:02	21:54
4	08:49		14:58 (24)	08:11		15:51 (25)	07:09		16:59 (26)	06:50			05:39	04:49
	16:08	23	15:21 (24)	17:05	27	16:18 (25)	18:03	24	17:23 (26)	20:05			21:04	21:55
5	08:49		14:59 (24)	08:10		15:50 (25)	07:06		17:00 (26)	06:48			05:36	04:48
	16:09	23	15:22 (24)	17:07	29	16:19 (25)	18:05	23	17:23 (26)	20:07			21:06	21:56
6	08:48		14:58 (24)	08:08		15:49 (25)	07:04		17:00 (26)	06:45			05:34	04:48
	16:11	24	15:22 (24)	17:09	31	16:20 (25)	18:07	22	17:22 (26)	20:09			21:08	21:58
7	08:48		14:58 (24)	08:06		15:48 (25)	07:02		17:00 (26)	06:43			05:32	04:47
	16:12	25	15:23 (24)	17:11	33	16:21 (25)	18:10	21	17:21 (26)	20:11			21:10	21:59
8	08:47		14:58 (24)	08:04		15:47 (25)	06:59		17:02 (26)	06:40			05:30	04:46
	16:13	25	15:23 (24)	17:13	34	16:21 (25)	18:12	18	17:20 (26)	20:13			21:11	22:00
9	08:47		14:59 (24)	08:02		15:47 (25)	06:57		17:03 (26)	06:37			05:28	04:45
	16:15	25	15:24 (24)	17:15	35	16:22 (25)	18:14	15	17:18 (26)	20:15			21:13	22:01
10	08:46		14:59 (24)	08:00		15:46 (25)	06:54		17:06 (26)	06:35			05:26	04:45
	16:17	25	15:24 (24)	17:17	37	16:23 (25)	18:16	9	17:15 (26)	20:17			21:15	22:02
11	08:45		14:59 (24)	07:57		15:46 (25)	06:51			06:32			05:24	04:44
	16:18	26	15:25 (24)	17:19	37	16:23 (25)	18:18			20:19			21:17	22:02
12	08:44		14:59 (24)	07:55		15:46 (25)	06:49			06:30			05:22	04:44
	16:20	27	15:26 (24)	17:22	38	16:24 (25)	18:20			20:21			21:19	22:03
13	08:43		15:00 (24)	07:53		15:46 (25)	06:46			06:28			05:21	04:44
	16:21	26	15:26 (24)	17:24	37	16:23 (25)	18:22			20:23			21:21	22:04
14	08:42		15:00 (24)	07:51		15:46 (25)	06:44			06:25			05:19	04:43
	16:23	27	15:27 (24)	17:26	38	16:24 (25)	18:24			20:25			21:23	22:05
15	08:41		15:01 (24)	07:49		15:46 (25)	06:41			06:23			05:17	04:43
	16:25	26	15:27 (24)	17:28	38	16:24 (25)	18:26			20:27			21:24	22:05
16	08:40		15:01 (24)	07:47		15:46 (25)	06:39			06:20			05:15	04:43
	16:27	26	15:27 (24)	17:30	37	16:23 (25)	18:28			20:29			21:26	22:06
17	08:39		15:02 (24)	07:44		15:46 (25)	06:36			06:18			05:13	04:43
	16:28	26	15:28 (24)	17:32	37	16:23 (25)	18:30			20:31			21:28	22:06
18	08:38		15:02 (24)	07:42		15:47 (25)	06:34			06:15			05:12	04:43
	16:30	26	15:28 (24)	17:34	36	16:23 (25)	18:32			20:33			21:30	22:07
19	08:37		15:02 (24)	07:40		15:47 (25)	06:31			06:13			05:10	04:43
	16:32	26	15:28 (24)	17:36	35	16:22 (25)	18:34			20:35			21:31	22:07
20	08:36		15:04 (24)	07:38		15:48 (25)	06:29			06:10			05:08	04:43
	16:34	24	15:28 (24)	17:38	34	16:22 (25)	18:36			20:37			21:33	22:08
21	08:34		15:04 (24)	07:35		15:48 (25)	06:26		18:02 (27)	06:08			05:07	04:43
	16:36	24	15:28 (24)	17:41	32	16:20 (25)	18:38	8	18:10 (27)	20:38			21:35	22:08
22	08:33		15:04 (24)	07:33		15:50 (25)	06:23		18:00 (27)	06:06			05:05	04:43
	16:38	23	15:27 (24)	17:43	30	16:20 (25)	18:40	13	18:13 (27)	20:40			21:37	22:08
23	08:32		15:06 (24)	07:31		15:52 (25)	06:21		17:57 (27)	06:03			05:04	04:43
	16:40	21	15:27 (24)	17:45	32	17:16 (26)	18:41	17	18:14 (27)	20:42			21:38	22:08
24	08:30		15:07 (24)	07:28		15:53 (25)	06:18		17:57 (27)	06:01			05:02	04:43
	16:42	20	15:27 (24)	17:47	35	17:18 (26)	18:43	20	18:17 (27)	20:44			21:40	22:08
25	08:29		15:08 (24)	07:26		15:55 (25)	06:16		17:55 (27)	05:59			05:01	04:44
	16:44	17	15:25 (24)	17:49	36	17:21 (26)	18:45	22	18:17 (27)	20:46			21:41	22:08
26	08:27		15:10 (24)	07:24		15:58 (25)	06:13		17:54 (27)	05:56			04:59	04:44
	16:46	15	15:25 (24)	17:51	32	17:22 (26)	18:47	22	18:16 (27)	20:48			21:43	22:08
27	08:25		15:12 (24)	07:21		17:02 (26)	06:11		17:54 (27)	05:54			04:58	04:45
	16:48	11	15:23 (24)	17:53	21	17:23 (26)	18:49	23	18:17 (27)	20:50			21:44	22:08
28	08:24		15:16 (24)	07:19		17:01 (26)	06:08		17:53 (27)	05:52			04:57	04:45
	16:50	4	15:20 (24)	17:55	22	17:23 (26)	18:51	23	18:16 (27)	20:52			21:46	22:08
29	08:22						07:05		18:54 (27)	05:50			04:55	04:46
	16:52						19:53	22	19:16 (27)	20:54			21:47	22:08
30	08:20						07:03		18:53 (27)	05:47			04:54	04:46
	16:54						19:55	22	19:15 (27)	20:56			21:49	22:07
31	08:19		15:58 (25)				07:00		18:54 (27)				04:53	
	16:56	11	16:09 (25)				19:57	21	19:15 (27)				21:50	
Potential sun hours	243			270			366			423			501	519
Total, worst case		642			895			416			45			
Sun reduction		0,18			0,25			0,34			0,39			
Oper. time red.		0,99			0,99			0,99			0,99			
Wind dir. red.		0,64			0,64			0,63			0,64			
Total reduction		0,11			0,16			0,21			0,25			
Total, real		73			139			88			11			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: M - Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September		October		November		December	
1	04:47	05:30	06:28		07:24		07:26	15:16 (25)	08:24	14:41 (24)
	22:07	21:29	20:19		19:02		16:48 36	15:52 (25)	16:00 26	15:07 (24)
2	04:48	05:32	06:30		07:26		07:28	15:16 (25)	08:26	14:42 (24)
	22:07	21:27	20:16		18:59		16:46 36	15:52 (25)	15:59 26	15:08 (24)
3	04:49	05:33	06:31		07:28		17:46 (26) 07:30	15:17 (25)	08:27	14:43 (24)
	22:06	21:25	20:14		18:57	5	17:51 (26) 16:44 34	15:51 (25)	15:59 25	15:08 (24)
4	04:50	05:35	06:33		07:30		17:42 (26) 07:32	15:18 (25)	08:29	14:44 (24)
	22:06	21:23	20:11		18:54	13	17:55 (26) 16:42 33	15:51 (25)	15:58 24	15:08 (24)
5	04:51	05:37	06:35		07:32		17:39 (26) 07:34	15:19 (25)	08:31	14:44 (24)
	22:05	21:21	20:09		18:52	17	17:56 (26) 16:40 31	15:50 (25)	15:57 24	15:08 (24)
6	04:52	05:39	06:37		07:34		17:38 (26) 07:36	15:20 (25)	08:32	14:45 (24)
	22:04	21:19	20:06		18:49	19	17:57 (26) 16:38 29	15:49 (25)	15:57 24	15:09 (24)
7	04:53	05:41	06:39		07:36		17:36 (26) 07:38	15:20 (25)	08:33	14:45 (24)
	22:04	21:17	20:04		18:47	22	17:58 (26) 16:36 27	15:47 (25)	15:56 23	15:08 (24)
8	04:54	05:43	06:41		07:38		17:35 (26) 07:40	15:23 (25)	08:35	14:46 (24)
	22:03	21:15	20:01		18:44	23	17:58 (26) 16:34 24	15:47 (25)	15:56 23	15:09 (24)
9	04:55	05:44	06:43	18:52 (27)	07:40		17:35 (26) 07:43	15:24 (25)	08:36	14:46 (24)
	22:02	21:13	19:59 10	19:02 (27)	18:42	24	17:59 (26) 16:32 21	15:45 (25)	15:55 23	15:09 (24)
10	04:56	05:46	06:45	18:49 (27)	07:42		17:34 (26) 07:45	15:26 (25)	08:37	14:46 (24)
	22:01	21:11	19:56 15	19:04 (27)	18:39	24	17:58 (26) 16:30 17	15:43 (25)	15:55 23	15:09 (24)
11	04:57	05:48	06:47	18:47 (27)	07:44		17:34 (26) 07:47	15:30 (25)	08:39	14:48 (24)
	22:00	21:09	19:54 18	19:05 (27)	18:37	24	17:58 (26) 16:28 11	15:41 (25)	15:54 21	15:09 (24)
12	04:58	05:50	06:48	18:46 (27)	07:46		17:34 (26) 07:49		08:40	14:48 (24)
	21:59	21:06	19:51 20	19:06 (27)	18:34	24	17:58 (26) 16:26		15:54 21	15:09 (24)
13	05:00	05:52	06:50	18:45 (27)	07:48		17:34 (26) 07:51		08:41	14:49 (24)
	21:58	21:04	19:48 21	19:06 (27)	18:32	23	17:57 (26) 16:24		15:54 20	15:09 (24)
14	05:01	05:54	06:52	18:44 (27)	07:50		17:34 (26) 07:53	14:47 (24)	08:42	14:49 (24)
	21:57	21:02	19:46 22	19:06 (27)	18:29	22	17:56 (26) 16:23 5	14:52 (24)	15:54 21	15:10 (24)
15	05:02	05:56	06:54	18:44 (27)	07:52		16:34 (25) 07:55	14:44 (24)	08:43	14:50 (24)
	21:56	21:00	19:43 23	19:07 (27)	18:27	27	17:55 (26) 16:21 11	14:55 (24)	15:54 20	15:10 (24)
16	05:04	05:58	06:56	18:42 (27)	07:54		16:28 (25) 07:57	14:43 (24)	08:44	14:51 (24)
	21:55	20:57	19:41 23	19:05 (27)	18:24	35	17:54 (26) 16:19 15	14:58 (24)	15:54 19	15:10 (24)
17	05:05	05:59	06:58	18:42 (27)	07:56		16:25 (25) 07:59	14:42 (24)	08:45	14:52 (24)
	21:53	20:55	19:38 23	19:05 (27)	18:22	37	17:51 (26) 16:18 17	14:59 (24)	15:54 19	15:11 (24)
18	05:07	06:01	07:00	18:43 (27)	07:58		16:23 (25) 08:01	14:41 (24)	08:45	14:52 (24)
	21:52	20:53	19:35 21	19:04 (27)	18:20	35	17:48 (26) 16:16 20	15:01 (24)	15:54 19	15:11 (24)
19	05:08	06:03	07:02	18:43 (27)	08:00		16:21 (25) 08:03	14:40 (24)	08:46	14:53 (24)
	21:51	20:51	19:33 20	19:03 (27)	18:17	28	16:49 (25) 16:15 21	15:01 (24)	15:55 19	15:12 (24)
20	05:10	06:05	07:03	18:44 (27)	08:02		16:21 (25) 08:04	14:39 (24)	08:47	14:53 (24)
	21:49	20:48	19:30 17	19:01 (27)	18:15	30	16:51 (25) 16:13 23	15:02 (24)	15:55 18	15:11 (24)
21	05:11	06:07	07:05	18:45 (27)	08:04		16:19 (25) 08:06	14:40 (24)	08:48	14:54 (24)
	21:48	20:46	19:28 14	18:59 (27)	18:12	33	16:52 (25) 16:12 24	15:04 (24)	15:55 18	15:12 (24)
22	05:13	06:09	07:07	18:47 (27)	08:06		16:18 (25) 08:08	14:40 (24)	08:48	14:54 (24)
	21:46	20:43	19:25 9	18:56 (27)	18:10	34	16:52 (25) 16:10 24	15:04 (24)	15:56 18	15:12 (24)
23	05:14	06:11	07:09	18:50 (27)	08:08		16:17 (25) 08:10	14:40 (24)	08:49	14:55 (24)
	21:45	20:41	19:23 3	18:53 (27)	18:08	36	16:53 (25) 16:09 25	15:05 (24)	15:56 18	15:13 (24)
24	05:16	06:13	07:11		08:10		16:16 (25) 08:12	14:40 (24)	08:49	14:55 (24)
	21:43	20:39	19:20		18:06	37	16:53 (25) 16:08 25	15:05 (24)	15:57 19	15:14 (24)
25	05:18	06:14	07:13		07:12		15:16 (25) 08:14	14:40 (24)	08:49	14:55 (24)
	21:42	20:36	19:17		17:03	37	15:53 (25) 16:07 26	15:06 (24)	15:57 19	15:14 (24)
26	05:19	06:16	07:15		07:14		15:16 (25) 08:16	14:40 (24)	08:50	14:55 (24)
	21:40	20:34	19:15		17:01	38	15:54 (25) 16:05 26	15:06 (24)	15:58 19	15:14 (24)
27	05:21	06:18	07:17		07:16		15:16 (25) 08:17	14:40 (24)	08:50	14:56 (24)
	21:38	20:31	19:12		16:59	38	15:54 (25) 16:04 26	15:06 (24)	15:59 19	15:15 (24)
28	05:23	06:20	07:19		07:18		15:15 (25) 08:19	14:40 (24)	08:50	14:56 (24)
	21:36	20:29	19:10		16:56	38	15:53 (25) 16:03 27	15:07 (24)	16:00 20	15:16 (24)
29	05:25	06:22	07:20		07:20		15:15 (25) 08:21	14:41 (24)	08:50	14:56 (24)
	21:35	20:26	19:07		16:54	38	15:53 (25) 16:02 26	15:07 (24)	16:01 20	15:16 (24)
30	05:26	06:24	07:22		07:22		15:15 (25) 08:23	14:40 (24)	08:50	14:57 (24)
	21:33	20:24	19:04		16:52	38	15:53 (25) 16:01 27	15:07 (24)	16:02 20	15:17 (24)
31	05:28	06:26			07:24		15:16 (25)		08:50	14:57 (24)
	21:31	20:21			16:50	37	15:53 (25)		16:03 21	15:18 (24)
Potential sun hours	521	465	383		326		253		225	
Total, worst case				259		836		667		649
Sun reduction				0,40		0,31		0,16		0,14
Oper. time red.				0,99		0,99		0,99		0,99
Wind dir. red.				0,64		0,64		0,64		0,64
Total reduction				0,25		0,19		0,10		0,09
Total, real				64		161		67		56

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: N - Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March			April			May	June
1	08:50		15:12 (24)	08:17			07:16		17:07 (26)	06:58		18:58 (27)	05:45	04:52
	16:04	13	15:25 (24)	16:58			17:57	21	17:28 (26)	19:59	16	19:14 (27)	20:58	21:52
2	08:50		15:11 (24)	08:15			07:14		17:06 (26)	06:55		19:00 (27)	05:43	04:51
	16:05	14	15:25 (24)	17:00			17:59	22	17:28 (26)	20:01	13	19:13 (27)	21:00	21:53
3	08:50		15:12 (24)	08:13			07:11		17:06 (26)	06:53		19:02 (27)	05:41	04:50
	16:07	15	15:27 (24)	17:02			18:01	23	17:29 (26)	20:03	7	19:09 (27)	21:02	21:54
4	08:49		15:11 (24)	08:11		16:10 (25)	07:09		17:05 (26)	06:50			05:39	04:49
	16:08	17	15:28 (24)	17:05	12	16:22 (25)	18:03	23	17:28 (26)	20:05			21:04	21:55
5	08:49		15:11 (24)	08:10		16:08 (25)	07:06		17:05 (26)	06:48			05:36	04:48
	16:09	18	15:29 (24)	17:07	17	16:25 (25)	18:05	23	17:28 (26)	20:07			21:06	21:56
6	08:48		15:11 (24)	08:08		16:06 (25)	07:04		17:05 (26)	06:45			05:34	04:48
	16:11	19	15:30 (24)	17:09	22	16:28 (25)	18:07	22	17:27 (26)	20:09			21:08	21:58
7	08:48		15:11 (24)	08:06		16:05 (25)	07:02		17:05 (26)	06:43			05:32	04:47
	16:12	20	15:31 (24)	17:11	24	16:29 (25)	18:10	21	17:26 (26)	20:11			21:10	21:59
8	08:47		15:11 (24)	08:04		16:03 (25)	06:59		17:06 (26)	06:40			05:30	04:46
	16:13	21	15:32 (24)	17:13	27	16:30 (25)	18:12	20	17:26 (26)	20:13			21:11	22:00
9	08:47		15:11 (24)	08:02		16:02 (25)	06:57		17:07 (26)	06:37			05:28	04:45
	16:15	21	15:32 (24)	17:15	29	16:31 (25)	18:14	17	17:24 (26)	20:15			21:13	22:01
10	08:46		15:11 (24)	08:00		16:01 (25)	06:54		17:09 (26)	06:35			05:26	04:45
	16:16	22	15:33 (24)	17:17	31	16:32 (25)	18:16	13	17:22 (26)	20:17			21:15	22:02
11	08:45		15:11 (24)	07:57		16:01 (25)	06:51		17:12 (26)	06:32			05:24	04:44
	16:18	23	15:34 (24)	17:19	32	16:33 (25)	18:18	6	17:18 (26)	20:19			21:17	22:02
12	08:44		15:11 (24)	07:55		16:01 (25)	06:49			06:30			05:22	04:44
	16:20	24	15:35 (24)	17:22	33	16:34 (25)	18:20			20:21			21:19	22:03
13	08:43		15:11 (24)	07:53		16:00 (25)	06:46			06:28			05:21	04:44
	16:21	24	15:35 (24)	17:24	34	16:34 (25)	18:22			20:23			21:21	22:04
14	08:42		15:12 (24)	07:51		16:00 (25)	06:44			06:25			05:19	04:43
	16:23	24	15:36 (24)	17:26	35	16:35 (25)	18:24			20:25			21:23	22:05
15	08:41		15:12 (24)	07:49		16:00 (25)	06:41			06:23			05:17	04:43
	16:25	25	15:37 (24)	17:28	35	16:35 (25)	18:26			20:27			21:24	22:05
16	08:40		15:12 (24)	07:47		15:59 (25)	06:39			06:20			05:15	04:43
	16:27	25	15:37 (24)	17:30	36	16:35 (25)	18:28			20:29			21:26	22:06
17	08:39		15:12 (24)	07:44		15:59 (25)	06:36			06:18			05:13	04:43
	16:28	26	15:38 (24)	17:32	36	16:35 (25)	18:30			20:31			21:28	22:06
18	08:38		15:13 (24)	07:42		16:00 (25)	06:34			06:15			05:12	04:43
	16:30	25	15:38 (24)	17:34	35	16:35 (25)	18:32			20:33			21:30	22:07
19	08:37		15:13 (24)	07:40		15:59 (25)	06:31			06:13			05:10	04:43
	16:32	25	15:38 (24)	17:36	35	16:34 (25)	18:34			20:35			21:31	22:07
20	08:36		15:14 (24)	07:38		16:00 (25)	06:29			06:10			05:08	04:43
	16:34	25	15:39 (24)	17:38	34	16:34 (25)	18:36			20:37			21:33	22:08
21	08:34		15:14 (24)	07:35		16:00 (25)	06:26		18:05 (27)	06:08			05:07	04:43
	16:36	25	15:39 (24)	17:41	33	16:33 (25)	18:38	5	18:10 (27)	20:38			21:35	22:08
22	08:33		15:14 (24)	07:33		16:01 (25)	06:23		18:03 (27)	06:06			05:05	04:43
	16:38	24	15:38 (24)	17:43	32	16:33 (25)	18:40	10	18:13 (27)	20:40			21:37	22:08
23	08:32		15:15 (24)	07:31		16:02 (25)	06:21		18:00 (27)	06:03			05:04	04:43
	16:40	24	15:39 (24)	17:45	30	16:32 (25)	18:41	14	18:14 (27)	20:42			21:38	22:08
24	08:30		15:15 (24)	07:28		16:03 (25)	06:18		17:59 (27)	06:01			05:02	04:43
	16:42	23	15:38 (24)	17:47	28	16:31 (25)	18:43	18	18:17 (27)	20:44			21:40	22:08
25	08:29		15:16 (24)	07:26		16:04 (25)	06:16		17:58 (27)	05:59			05:01	04:44
	16:44	22	15:38 (24)	17:49	34	17:21 (26)	18:45	20	18:18 (27)	20:46			21:41	22:08
26	08:27		15:18 (24)	07:24		16:05 (25)	06:13		17:57 (27)	05:56			04:59	04:44
	16:46	20	15:38 (24)	17:51	34	17:22 (26)	18:47	21	18:18 (27)	20:48			21:43	22:08
27	08:25		15:19 (24)	07:21		16:08 (25)	06:11		17:57 (27)	05:54			04:58	04:45
	16:48	18	15:37 (24)	17:53	33	17:25 (26)	18:49	22	18:19 (27)	20:50			21:44	22:08
28	08:24		15:20 (24)	07:19		16:11 (25)	06:08		17:56 (27)	05:52			04:57	04:45
	16:50	16	15:36 (24)	17:55	30	17:27 (26)	18:51	22	18:18 (27)	20:52			21:46	22:08
29	08:22		15:22 (24)				07:05		18:57 (27)	05:50			04:55	04:46
	16:52	13	15:35 (24)				19:53	21	19:18 (27)	20:54			21:47	22:08
30	08:20		15:25 (24)				07:03		18:56 (27)	05:47			04:54	04:46
	16:54	7	15:32 (24)				19:55	21	19:17 (27)	20:56			21:49	22:07
31	08:19						07:00		18:57 (27)				04:53	
	16:56						19:57	19	19:16 (27)				21:50	
Potential sun hours	243			270			366			423			501	519
Total, worst case		618			761			404			36			
Sun reduction		0,18			0,25			0,34			0,39			
Oper. time red.		0,99			0,99			0,99			0,99			
Wind dir. red.		0,64			0,64			0,63			0,64			
Total reduction		0,11			0,16			0,21			0,25			
Total, real		70			118			86			9			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: N - Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September		October		November		December	
1	04:47	05:30	06:28		07:24		07:26	15:31 (25)	08:24	14:53 (24)
	22:07	21:29	20:19		19:02		16:48	31 16:02 (25)	16:00	23 15:16 (24)
2	04:48	05:32	06:30		07:26		07:28	15:32 (25)	08:26	14:54 (24)
	22:07	21:27	20:16		18:59		16:46	29 16:01 (25)	15:59	22 15:16 (24)
3	04:49	05:33	06:31		07:28		17:48 (26) 07:30	15:33 (25)	08:27	14:55 (24)
	22:06	21:25	20:14		18:57	11	17:59 (26) 16:44	26 15:59 (25)	15:59	21 15:16 (24)
4	04:50	05:35	06:33		07:30		17:46 (26) 07:32	15:35 (25)	08:29	14:55 (24)
	22:06	21:23	20:11		18:54	15	18:01 (26) 16:42	24 15:59 (25)	15:58	21 15:16 (24)
5	04:51	05:37	06:35		07:32		17:44 (26) 07:34	15:36 (25)	08:31	14:56 (24)
	22:05	21:21	20:09		18:52	18	18:02 (26) 16:40	21 15:57 (25)	15:57	20 15:16 (24)
6	04:52	05:39	06:37		07:34		17:43 (26) 07:36	15:38 (25)	08:32	14:57 (24)
	22:04	21:19	20:06		18:49	20	18:03 (26) 16:38	17 15:55 (25)	15:57	19 15:16 (24)
7	04:53	05:41	06:39		07:36		17:41 (26) 07:38	15:40 (25)	08:33	14:58 (24)
	22:04	21:17	20:04		18:47	22	18:03 (26) 16:36	12 15:52 (25)	15:56	18 15:16 (24)
8	04:54	05:43	06:41		07:38		17:41 (26) 07:40		08:35	14:59 (24)
	22:03	21:15	20:01		18:44	22	18:03 (26) 16:34		15:56	17 15:16 (24)
9	04:55	05:44	06:43	18:56 (27)	07:40		17:40 (26) 07:43		08:36	15:00 (24)
	22:02	21:13	19:59	7 19:03 (27)	18:42	23	18:03 (26) 16:32		15:55	15 15:15 (24)
10	04:56	05:46	06:45	18:52 (27)	07:42		17:40 (26) 07:45		08:37	15:00 (24)
	22:01	21:11	19:56	13 19:05 (27)	18:39	23	18:03 (26) 16:30		15:55	14 15:14 (24)
11	04:57	05:48	06:47	18:50 (27)	07:44		17:40 (26) 07:47		08:39	15:02 (24)
	22:00	21:09	19:54	16 19:06 (27)	18:37	23	18:03 (26) 16:28		15:54	13 15:15 (24)
12	04:58	05:50	06:48	18:49 (27)	07:46		17:40 (26) 07:49	14:56 (24)	08:40	15:03 (24)
	21:59	21:06	19:51	18 19:07 (27)	18:34	22	18:02 (26) 16:26	8 15:04 (24)	15:54	11 15:14 (24)
13	05:00	05:52	06:50	18:48 (27)	07:48		17:40 (26) 07:51	14:54 (24)	08:41	15:04 (24)
	21:58	21:04	19:48	20 19:08 (27)	18:32	21	18:01 (26) 16:24	13 15:07 (24)	15:54	10 15:14 (24)
14	05:01	05:54	06:52	18:47 (27)	07:50		16:42 (25) 07:53	14:52 (24)	08:42	15:05 (24)
	21:57	21:02	19:46	21 19:08 (27)	18:29	32	17:59 (26) 16:23	16 15:08 (24)	15:54	9 15:14 (24)
15	05:02	05:56	06:54	18:46 (27)	07:52		16:39 (25) 07:55	14:51 (24)	08:43	15:06 (24)
	21:56	21:00	19:43	22 19:08 (27)	18:27	33	17:56 (26) 16:21	18 15:09 (24)	15:54	7 15:13 (24)
16	05:04	05:58	06:56	18:45 (27)	07:54		16:37 (25) 07:57	14:51 (24)	08:44	15:07 (24)
	21:55	20:57	19:41	22 19:07 (27)	18:24	34	17:54 (26) 16:19	20 15:11 (24)	15:54	6 15:13 (24)
17	05:05	05:59	06:58	18:45 (27)	07:56		16:35 (25) 07:59	14:50 (24)	08:45	15:08 (24)
	21:53	20:55	19:38	22 19:07 (27)	18:22	31	17:51 (26) 16:18	22 15:12 (24)	15:54	6 15:14 (24)
18	05:07	06:01	07:00	18:45 (27)	07:58		16:33 (25) 08:01	14:49 (24)	08:45	15:09 (24)
	21:52	20:53	19:35	21 19:06 (27)	18:20	29	17:02 (25) 16:16	23 15:12 (24)	15:54	5 15:14 (24)
19	05:08	06:03	07:02	18:46 (27)	08:00		16:32 (25) 08:03	14:49 (24)	08:46	15:10 (24)
	21:51	20:51	19:33	18 19:04 (27)	18:17	31	17:03 (25) 16:15	24 15:13 (24)	15:55	4 15:14 (24)
20	05:10	06:05	07:03	18:46 (27)	08:02		16:32 (25) 08:04	14:49 (24)	08:47	15:10 (24)
	21:49	20:48	19:30	15 19:01 (27)	18:15	32	17:04 (25) 16:13	24 15:13 (24)	15:55	4 15:14 (24)
21	05:11	06:07	07:05	18:48 (27)	08:04		16:31 (25) 08:06	14:50 (24)	08:47	15:12 (24)
	21:48	20:46	19:28	11 18:59 (27)	18:12	34	17:05 (25) 16:12	25 15:15 (24)	15:55	3 15:15 (24)
22	05:13	06:09	07:07	18:50 (27)	08:06		16:30 (25) 08:08	14:50 (24)	08:48	15:12 (24)
	21:46	20:43	19:25	6 18:56 (27)	18:10	35	17:05 (25) 16:10	25 15:15 (24)	15:56	3 15:15 (24)
23	05:14	06:11	07:09		08:08		16:29 (25) 08:10	14:50 (24)	08:49	15:12 (24)
	21:45	20:41	19:23		18:08	36	17:05 (25) 16:09	25 15:15 (24)	15:56	4 15:16 (24)
24	05:16	06:13	07:11		08:10		16:29 (25) 08:12	14:50 (24)	08:49	15:12 (24)
	21:43	20:39	19:20		18:06	36	17:05 (25) 16:08	25 15:15 (24)	15:57	4 15:16 (24)
25	05:18	06:14	07:13		07:12		15:29 (25) 08:14	14:50 (24)	08:49	15:12 (24)
	21:42	20:36	19:17		17:03	35	16:04 (25) 16:07	26 15:16 (24)	15:57	5 15:17 (24)
26	05:19	06:16	07:15		07:14		15:29 (25) 08:16	14:51 (24)	08:50	15:12 (24)
	21:40	20:34	19:15		17:01	36	16:05 (25) 16:05	25 15:16 (24)	15:58	5 15:17 (24)
27	05:21	06:18	07:17		07:16		15:29 (25) 08:17	14:51 (24)	08:50	15:12 (24)
	21:38	20:31	19:12		16:59	36	16:05 (25) 16:04	25 15:16 (24)	15:59	6 15:18 (24)
28	05:23	06:20	07:19		07:18		15:29 (25) 08:19	14:52 (24)	08:50	15:12 (24)
	21:36	20:29	19:10		16:56	35	16:04 (25) 16:03	24 15:16 (24)	16:00	7 15:19 (24)
29	05:25	06:22	07:20		07:20		15:29 (25) 08:21	14:52 (24)	08:50	15:12 (24)
	21:35	20:26	19:07		16:54	34	16:03 (25) 16:02	24 15:16 (24)	16:01	8 15:20 (24)
30	05:26	06:24	07:22		07:22		15:29 (25) 08:23	14:52 (24)	08:50	15:12 (24)
	21:33	20:24	19:04		16:52	34	16:03 (25) 16:01	24 15:16 (24)	16:02	9 15:21 (24)
31	05:28	06:26			07:24		15:31 (25)		08:50	15:12 (24)
	21:31	20:21			16:50	32	16:03 (25)		16:03	11 15:23 (24)
Potential sun hours	521	465	383		326		253		225	
Total, worst case				232		825		576		330
Sun reduction				0,40		0,31		0,16		0,14
Oper. time red.				0,99		0,99		0,99		0,99
Wind dir. red.				0,64		0,64		0,64		0,64
Total reduction				0,25		0,19		0,10		0,08
Total, real				58		159		57		28

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: O - Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	04:49	04:49	05:35	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	04:48	04:50	05:37	06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:39	15:57
6	08:48	08:08	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:37	15:56
7	08:48	08:06	07:01	06:42	05:32	04:46	04:52	05:40	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:53	05:42	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11	22:00	22:03	21:15	20:01	18:44	16:33	15:55
9	08:47	08:02	06:56	06:37	05:28	04:45	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13	22:01	22:02	21:13	19:59	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:44	07:42	07:45	08:37
	16:16	17:17	18:15	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:54
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:47	08:39
	16:18	17:19	18:17	20:19	21:17	22:02	22:00	21:09	19:53	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:49	08:40
	16:19	17:21	18:19	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	04:43	04:59	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:21	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	04:43	05:02	05:55	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:42	05:04	05:57	06:56	07:53	07:57	08:44
	16:26	17:30	18:28	20:29	21:26	22:06	21:55	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:42	05:05	05:59	06:58	07:55	07:59	08:45
	16:28	17:32	18:29	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	04:42	05:06	06:01	07:00	07:57	08:01	08:45
	16:30	17:34	18:31	20:33	21:30	22:07	21:52	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:01	07:59	08:03	08:46
	16:32	17:36	18:33	20:35	21:32	22:07	21:51	20:50	19:33	18:17	16:14	15:54
20	08:36	07:38	06:28	06:10	05:08	04:42	05:09	06:05	07:03	08:02	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:06	04:42	05:11	06:07	07:05	08:04	08:06	08:48
	16:36	17:40	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:37	22:08	21:46	20:43	19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	05:03	04:43	05:14	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:12	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:05	16:08	15:57
25	08:29	07:26	06:16	05:58	05:00	04:43	05:17	06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	04:58	04:44	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:56	04:45	05:23	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:09	16:56	16:03	16:00
29	08:22		07:05	05:49	04:55	04:46	05:24	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:00
30	08:20		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:04	16:52	16:01	16:01
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:02
Potential sun hours	243	269	366	423	501	519	521	465	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: P - Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41	04:50	04:48	05:33	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	04:49	04:49	05:35	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	04:48	04:50	05:37	06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:39	15:57
6	08:48	08:08	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:37	15:56
7	08:48	08:06	07:01	06:42	05:32	04:46	04:52	05:40	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:53	05:42	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11	22:00	22:03	21:15	20:01	18:44	16:33	15:55
9	08:47	08:02	06:56	06:37	05:28	04:45	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13	22:01	22:02	21:13	19:59	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:44	07:42	07:45	08:37
	16:16	17:17	18:15	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:54
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:47	08:39
	16:18	17:19	18:17	20:19	21:17	22:02	22:00	21:09	19:53	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:49	08:40
	16:19	17:21	18:19	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	04:43	04:59	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:21	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	04:43	05:02	05:55	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:42	05:04	05:57	06:56	07:53	07:57	08:44
	16:26	17:30	18:27	20:29	21:26	22:06	21:55	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:42	05:05	05:59	06:58	07:55	07:59	08:45
	16:28	17:32	18:29	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	04:42	05:06	06:01	07:00	07:57	08:01	08:45
	16:30	17:34	18:31	20:33	21:30	22:07	21:52	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:01	07:59	08:03	08:46
	16:32	17:36	18:33	20:35	21:32	22:07	21:51	20:50	19:33	18:17	16:14	15:54
20	08:36	07:38	06:28	06:10	05:08	04:42	05:09	06:05	07:03	08:02	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:06	04:42	05:11	06:07	07:05	08:04	08:06	08:48
	16:36	17:40	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:37	22:08	21:46	20:43	19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	05:03	04:43	05:14	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:12	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:05	16:08	15:57
25	08:29	07:26	06:16	05:58	05:00	04:43	05:17	06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	04:58	04:44	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:56	04:45	05:23	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:09	16:56	16:03	16:00
29	08:22		07:05	05:49	04:55	04:46	05:24	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:00
30	08:20		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:04	16:52	16:01	16:01
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:02
Potential sun hours	243	269	366	423	501	519	521	465	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: Q - Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41	04:50	04:48	05:33	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	04:49	04:49	05:35	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	04:48	04:50	05:37	06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:39	15:57
6	08:48	08:08	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:37	15:56
7	08:48	08:06	07:01	06:42	05:32	04:46	04:52	05:40	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:53	05:42	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11	22:00	22:03	21:15	20:01	18:44	16:33	15:55
9	08:47	08:02	06:56	06:37	05:28	04:45	04:54	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13	22:01	22:02	21:13	19:59	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:44	07:42	07:45	08:37
	16:16	17:17	18:15	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:54
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:47	08:39
	16:18	17:19	18:17	20:19	21:17	22:02	22:00	21:09	19:53	18:36	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:49	08:40
	16:19	17:21	18:19	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	04:43	04:59	05:52	06:50	07:48	07:51	08:41
	16:21	17:23	18:21	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:23	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	04:43	05:02	05:55	06:54	07:52	07:55	08:43
	16:25	17:28	18:25	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:42	05:03	05:57	06:56	07:53	07:57	08:44
	16:26	17:30	18:27	20:29	21:26	22:06	21:55	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:17	05:13	04:42	05:05	05:59	06:58	07:55	07:59	08:45
	16:28	17:32	18:29	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	04:42	05:06	06:01	07:00	07:57	08:01	08:45
	16:30	17:34	18:31	20:33	21:30	22:07	21:52	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:01	07:59	08:03	08:46
	16:32	17:36	18:33	20:35	21:32	22:07	21:51	20:50	19:33	18:17	16:14	15:54
20	08:36	07:38	06:28	06:10	05:08	04:42	05:09	06:05	07:03	08:02	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:06	04:42	05:11	06:07	07:05	08:04	08:06	08:48
	16:36	17:40	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:37	22:08	21:46	20:43	19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	05:03	04:43	05:14	06:11	07:09	08:08	08:10	08:49
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24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:12	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:05	16:08	15:57
25	08:29	07:26	06:16	05:58	05:00	04:43	05:17	06:14	07:13	07:12	08:14	08:49
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29	08:22		07:05	05:49	04:55	04:46	05:24	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:00
30	08:20		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:04	16:52	16:01	16:01
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
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Potential sun hours	243	269	366	423	501	519	521	465	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
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Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: R - Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41	04:50	04:48	05:33	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:43	15:58
4	08:49	08:12	07:09	06:50	05:38	04:49	04:49	05:35	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:41	15:58
5	08:49	08:10	07:07	06:48	05:36	04:48	04:50	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:05	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:39	15:57
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	16:10	17:09	18:07	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:37	15:56
7	08:48	08:06	07:02	06:42	05:32	04:46	04:52	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:09	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:53	05:42	06:41	07:38	07:41	08:35
	16:13	17:13	18:11	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:33	15:55
9	08:47	08:02	06:57	06:37	05:28	04:45	04:55	05:44	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:38
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11	08:45	07:58	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:47	08:39
	16:18	17:19	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:49	08:40
	16:19	17:21	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:46	06:27	05:20	04:43	04:59	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:43	07:51	06:44	06:25	05:18	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:22	05:17	04:43	05:02	05:55	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:42	05:04	05:57	06:56	07:54	07:57	08:44
	16:26	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:42	05:05	05:59	06:58	07:56	07:59	08:45
	16:28	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	04:42	05:06	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:01	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:54
20	08:36	07:38	06:29	06:10	05:08	04:42	05:09	06:05	07:03	08:02	08:05	08:47
	16:34	17:38	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:06	04:42	05:11	06:07	07:05	08:04	08:07	08:48
	16:36	17:40	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	05:03	04:43	05:14	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:12	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:09	21:43	20:39	19:20	18:05	16:08	15:57
25	08:29	07:26	06:16	05:58	05:00	04:43	05:17	06:14	07:13	07:12	08:14	08:50
	16:44	17:49	18:45	20:46	21:42	22:09	21:42	20:36	19:17	17:03	16:06	15:57
26	08:27	07:24	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:09	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11	05:54	04:58	04:44	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:56	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:56	16:03	16:00
29	08:22		07:05	05:49	04:55	04:46	05:24	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:26	19:07	16:54	16:02	16:00
30	08:21		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:04	16:52	16:01	16:01
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:02
Potential sun hours	242	269	366	423	501	519	521	465	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: S - Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:25
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41	04:50	04:48	05:33	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02	21:54	22:07	21:25	20:14	18:57	16:43	15:58
4	08:49	08:12	07:09	06:50	05:38	04:49	04:49	05:35	06:33	07:30	07:32	08:29
	16:07	17:04	18:03	20:05	21:04	21:56	22:06	21:23	20:11	18:54	16:41	15:58
5	08:49	08:10	07:07	06:47	05:36	04:48	04:50	05:37	06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:39	15:57
6	08:49	08:08	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:37	15:56
7	08:48	08:06	07:02	06:42	05:32	04:46	04:52	05:40	06:39	07:36	07:39	08:34
	16:12	17:11	18:09	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:53	05:42	06:41	07:38	07:41	08:35
	16:13	17:13	18:11	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:33	15:55
9	08:47	08:02	06:57	06:37	05:28	04:45	04:54	05:44	06:43	07:40	07:43	08:36
	16:15	17:15	18:13	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:44	04:56	05:46	06:45	07:42	07:45	08:38
	16:16	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:54
11	08:45	07:58	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:47	08:39
	16:18	17:19	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:54
12	08:45	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:49	08:40
	16:19	17:21	18:20	20:21	21:19	22:04	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:46	06:27	05:20	04:43	04:59	05:52	06:50	07:48	07:51	08:41
	16:21	17:23	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:43	07:51	06:44	06:25	05:18	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:22	05:17	04:43	05:02	05:55	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:42	05:03	05:57	06:56	07:54	07:57	08:44
	16:26	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:19	15:54
17	08:40	07:44	06:36	06:18	05:13	04:42	05:05	05:59	06:58	07:56	07:59	08:45
	16:28	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	04:42	05:06	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:01	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:17	16:14	15:54
20	08:36	07:38	06:29	06:10	05:08	04:42	05:09	06:05	07:03	08:02	08:05	08:47
	16:34	17:38	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:35	07:35	06:26	06:08	05:06	04:42	05:11	06:07	07:05	08:04	08:07	08:48
	16:36	17:40	18:37	20:39	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	04:42	05:12	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:41	21:37	22:08	21:47	20:44	19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	05:03	04:43	05:14	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:43	21:38	22:09	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:12	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:09	21:43	20:39	19:20	18:05	16:07	15:56
25	08:29	07:26	06:16	05:58	05:00	04:43	05:17	06:14	07:13	07:12	08:14	08:50
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26	08:27	07:24	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:09	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11	05:54	04:58	04:44	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:56	04:45	05:22	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:56	16:03	15:59
29	08:22		07:05	05:49	04:55	04:45	05:24	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:26	19:07	16:54	16:02	16:00
30	08:21		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:04	16:52	16:01	16:01
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:02
Potential sun hours	242	269	366	423	501	519	521	465	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Foninës VE Shadow receptor: T - Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:29	06:27	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:45	15:59
3	08:50	08:13	07:11	06:52	05:40	04:50	04:48	05:33	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	04:49	04:49	05:35	06:33	07:30	07:32	08:29
	16:07	17:04	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:41	15:57
5	08:49	08:10	07:06	06:47	05:36	04:48	04:50	05:37	06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:39	15:57
6	08:48	08:08	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:37	15:56
7	08:48	08:06	07:01	06:42	05:32	04:46	04:52	05:40	06:39	07:36	07:38	08:34
	16:12	17:11	18:09	20:11	21:10	21:59	22:04	21:17	20:04	18:46	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:53	05:42	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:33	15:55
9	08:47	08:02	06:56	06:37	05:28	04:45	04:54	05:44	06:43	07:40	07:43	08:36
	16:15	17:15	18:13	20:15	21:13	22:01	22:02	21:13	19:59	18:41	16:31	15:55
10	08:46	08:00	06:54	06:35	05:26	04:44	04:56	05:46	06:44	07:42	07:45	08:37
	16:16	17:17	18:15	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:54
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:47	08:39
	16:18	17:19	18:17	20:19	21:17	22:03	22:00	21:09	19:53	18:36	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:43	04:58	05:50	06:48	07:46	07:49	08:40
	16:19	17:21	18:19	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:44	07:53	06:46	06:27	05:20	04:43	04:59	05:52	06:50	07:48	07:51	08:41
	16:21	17:23	18:21	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:43	07:51	06:44	06:25	05:18	04:43	05:01	05:53	06:52	07:50	07:53	08:42
	16:23	17:26	18:23	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:22	15:54
15	08:42	07:49	06:41	06:22	05:16	04:42	05:02	05:55	06:54	07:52	07:55	08:43
	16:24	17:28	18:25	20:27	21:25	22:06	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:42	05:03	05:57	06:56	07:54	07:57	08:44
	16:26	17:30	18:27	20:29	21:26	22:06	21:55	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:17	05:13	04:42	05:05	05:59	06:58	07:56	07:59	08:45
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18	08:38	07:42	06:34	06:15	05:11	04:42	05:06	06:01	06:59	07:58	08:01	08:46
	16:30	17:34	18:31	20:33	21:30	22:07	21:52	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:01	08:00	08:03	08:46
	16:32	17:36	18:33	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:14	15:54
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21	08:34	07:35	06:26	06:08	05:06	04:42	05:11	06:07	07:05	08:04	08:06	08:48
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22	08:33	07:33	06:23	06:05	05:05	04:42	05:12	06:09	07:07	08:06	08:08	08:48
	16:38	17:42	18:39	20:40	21:37	22:08	21:46	20:43	19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	05:03	04:43	05:14	06:10	07:09	08:08	08:10	08:49
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25	08:29	07:26	06:16	05:58	05:00	04:43	05:17	06:14	07:13	07:12	08:14	08:49
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26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
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27	08:26	07:21	06:10	05:54	04:58	04:44	05:21	06:18	07:17	07:16	08:18	08:50
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28	08:24	07:19	06:08	05:51	04:56	04:45	05:22	06:20	07:18	07:18	08:19	08:50
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29	08:22		07:05	05:49	04:55	04:45	05:24	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:26	19:07	16:54	16:02	16:00
30	08:21		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:04	16:52	16:01	16:01
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:02
Potential sun hours	242	269	366	423	501	519	521	465	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

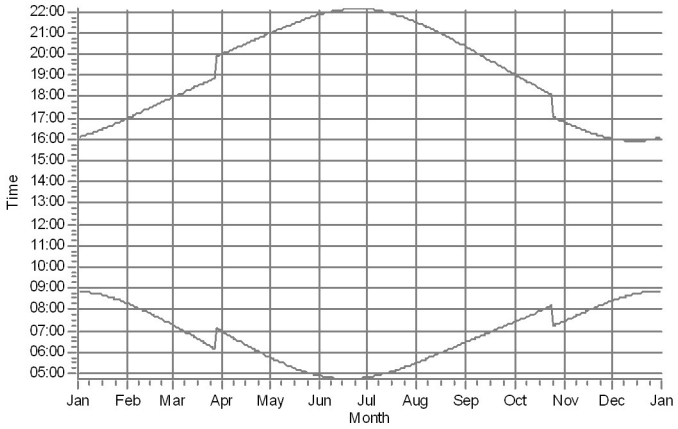
Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

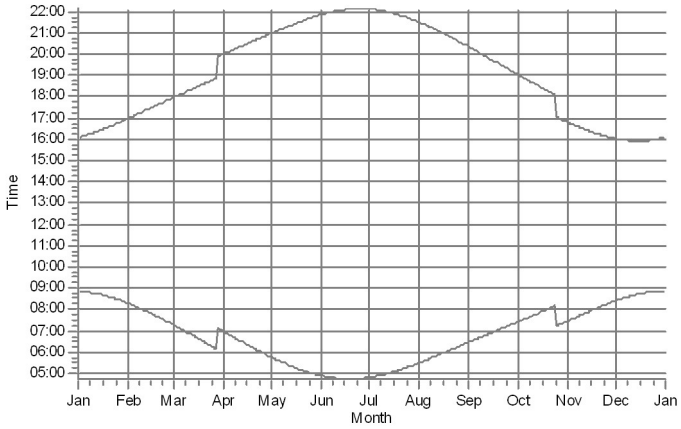
SHADOW - Calendar, graphical

Calculation: Foninės VE

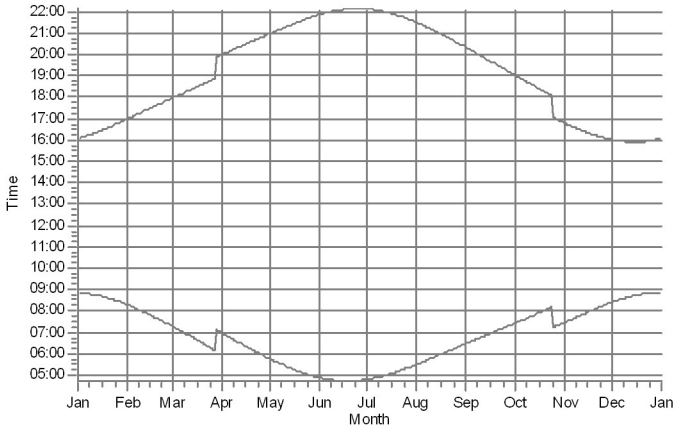
A: Gyvenamasis pastatas: Barsukinės k. 8, Žeimių sen., Jonavos r. sav. (



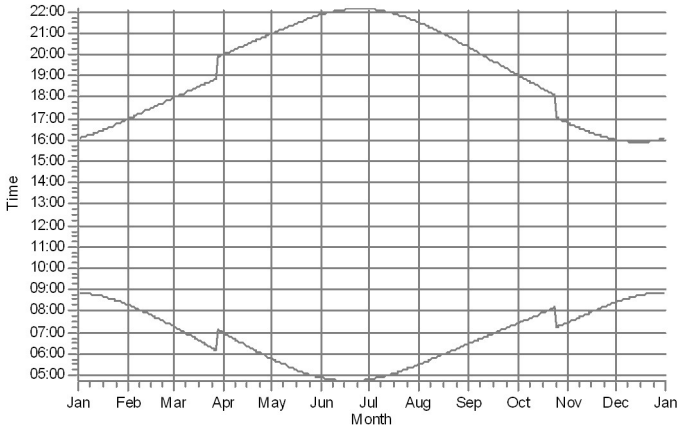
B: Gyvenamasis pastatas: Barsukinės k. 6, Žeimių sen., Jonavos r. sav. (



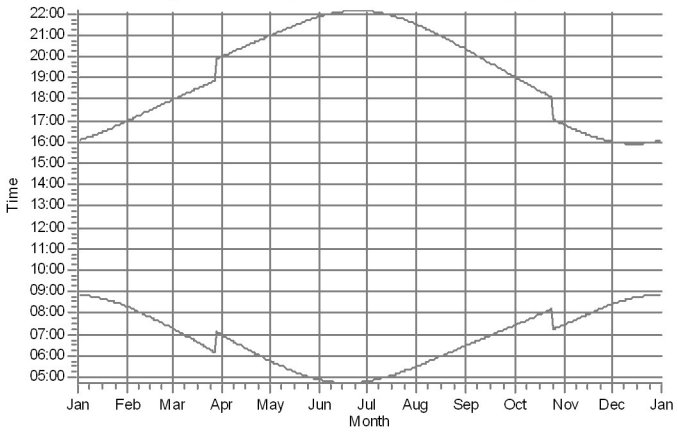
C: Gyvenamasis pastatas: Barsukinės k. 4, Žeimių sen., Jonavos r. sav. (



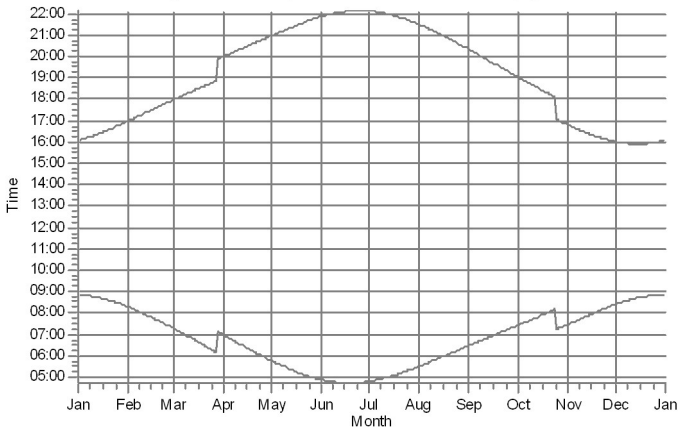
D: Gyvenamasis pastatas: Neturi adreso (4)



E: Gyvenamasis pastatas: Neturi adreso (5)



F: Gyvenamasis pastatas: Neturi adreso (6)

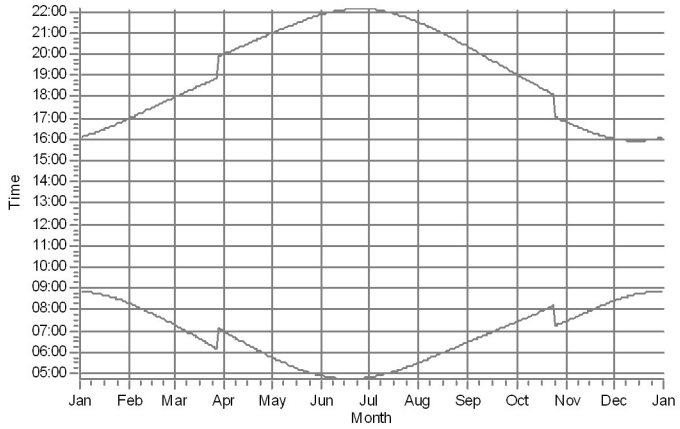


WTGs

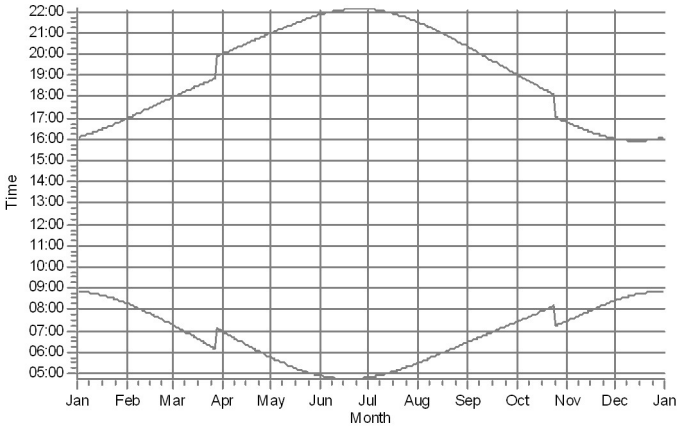
SHADOW - Calendar, graphical

Calculation: Foninės VE

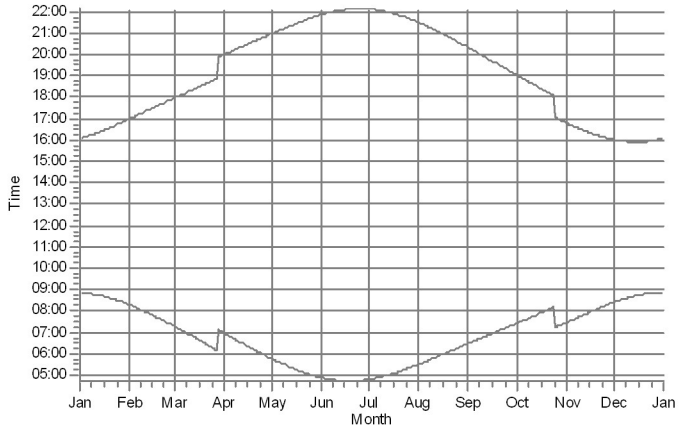
G: Gyvenamasis pastatas: Šviesos g. 1A, Naujasodžio k., Žeimių sen., Jo



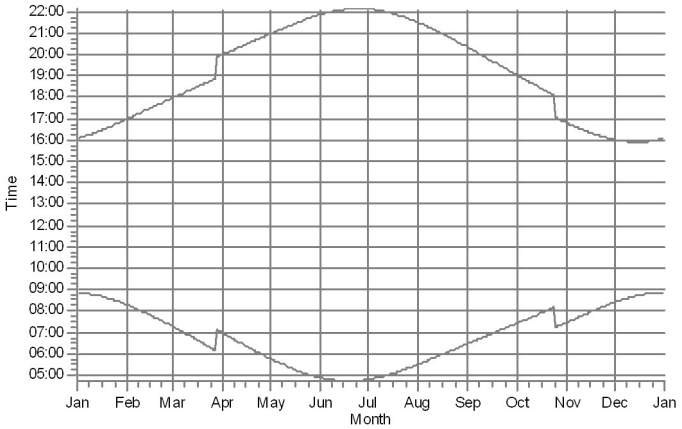
H: Gyvenamasis pastatas: Šviesos g. 2, Naujasodžio k., Žeimių sen., Jona



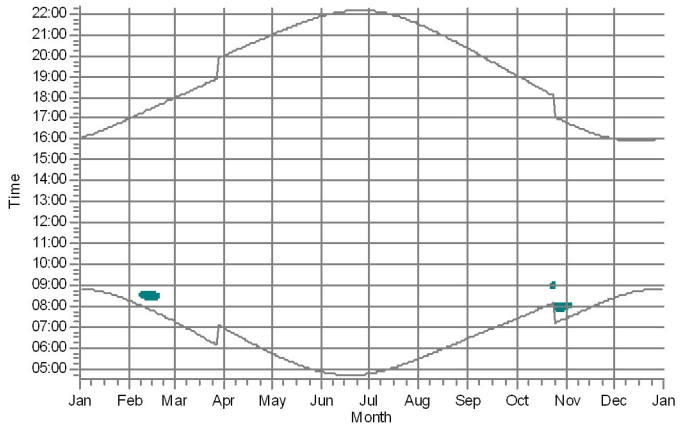
I: Gyvenamasis pastatas: Barsukinės k. 2, Žeimių sen., Jonavos r. sav. (9



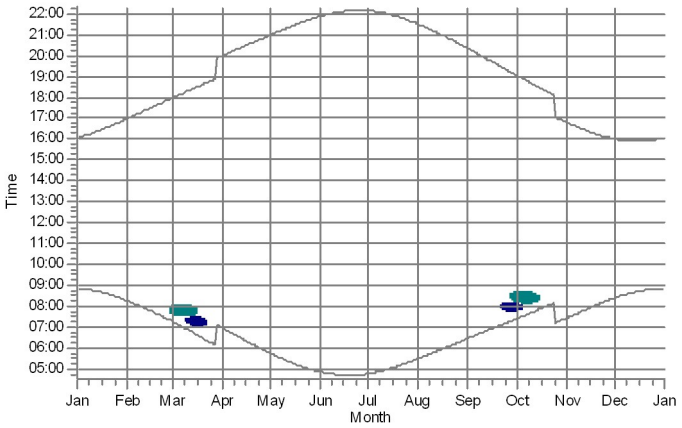
J: Gyvenamasis pastatas: Barsukinės k. 1, Žeimių sen., Jonavos r. sav. (1



K: Gyvenamasis pastatas: Paduobių k. 4, Žeimių sen., Jonavos r. sav. (11



L: Gyvenamasis pastatas: Paduobių k. 7, Žeimių sen., Jonavos r. sav. (12



WTGs

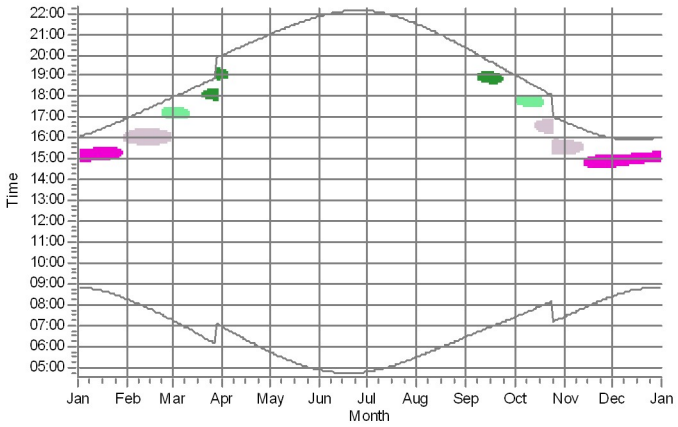
6: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (6)

7: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (7)

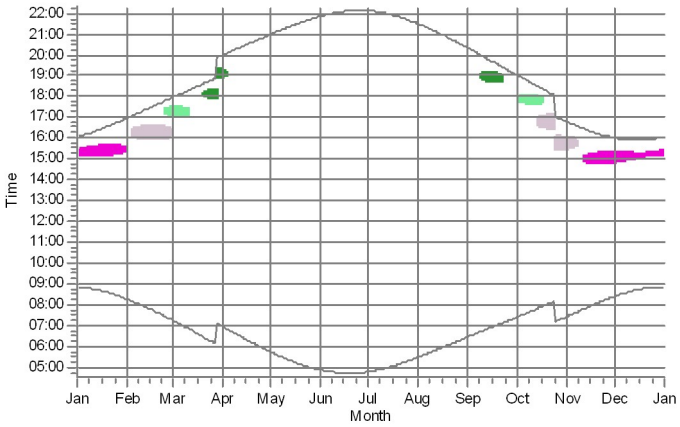
SHADOW - Calendar, graphical

Calculation: Foninës VE

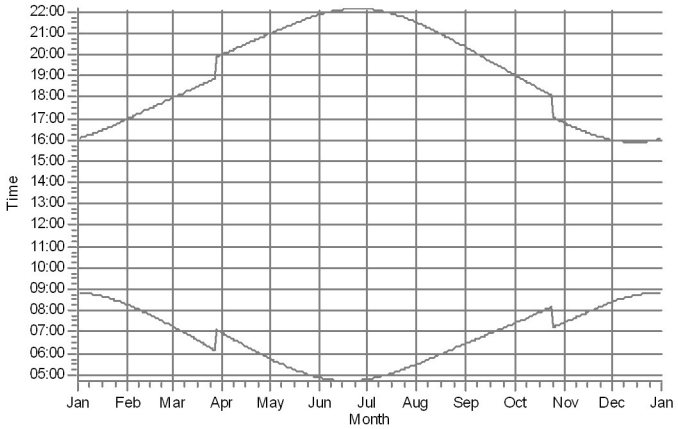
M: Gyvenamasis pastatas: Blauzdžių k. 14, Žeimių sen., Jonavos r. sav. (



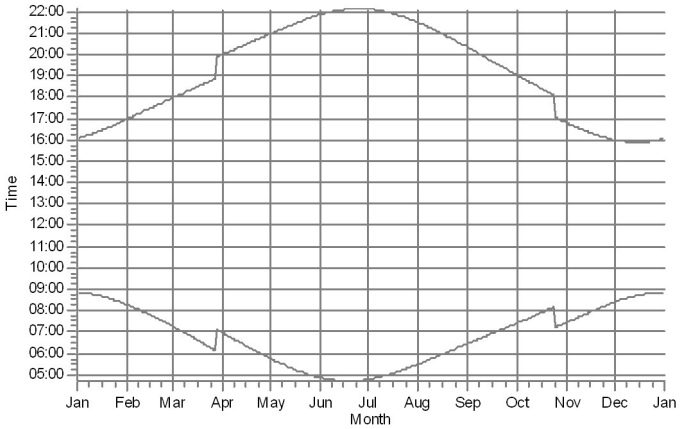
N: Gyvenamasis pastatas: Blauzdžių k. 12, Žeimių sen., Jonavos r. sav. (



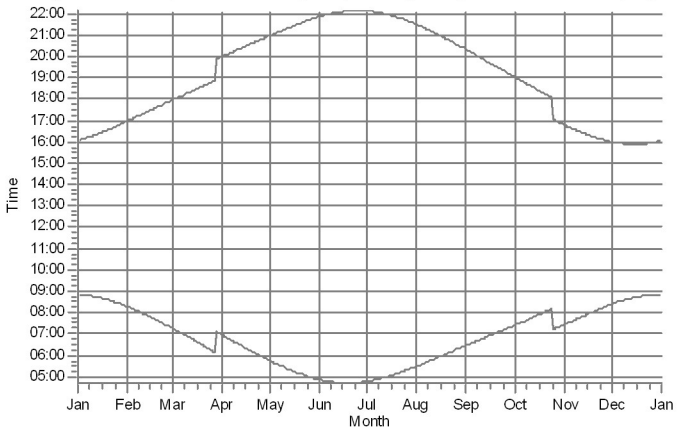
O: Gyvenamasis pastatas: Aklių k. 3, Žeimių sen., Jonavos r. sav. (15)



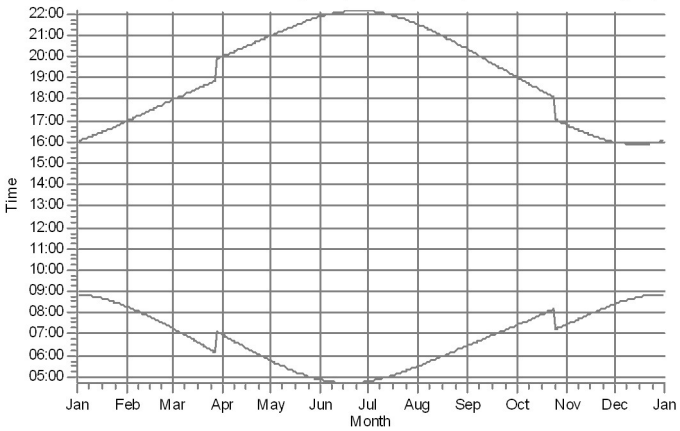
P: Gyvenamasis pastatas: Aklių k. 2, Žeimių sen., Jonavos r. sav. (16)



Q: Gyvenamasis pastatas: Aklių k. 5, Žeimių sen., Jonavos r. sav. (17)



R: Gyvenamasis pastatas: Aklių k. 8, Žeimių sen., Jonavos r. sav. (18)



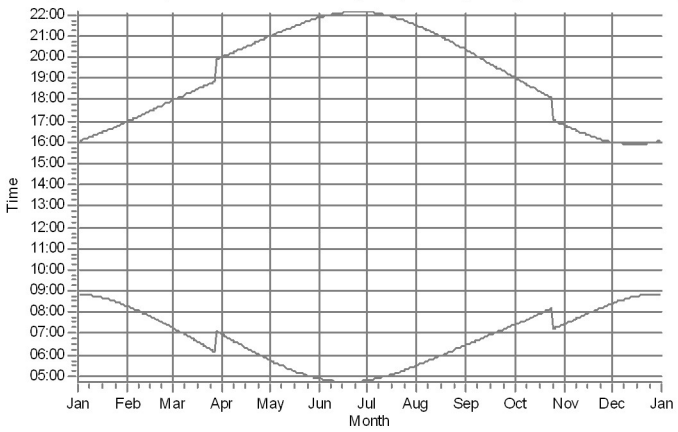
WTGs

24: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (24)
25: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (25)
26: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (26)
27: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (27)

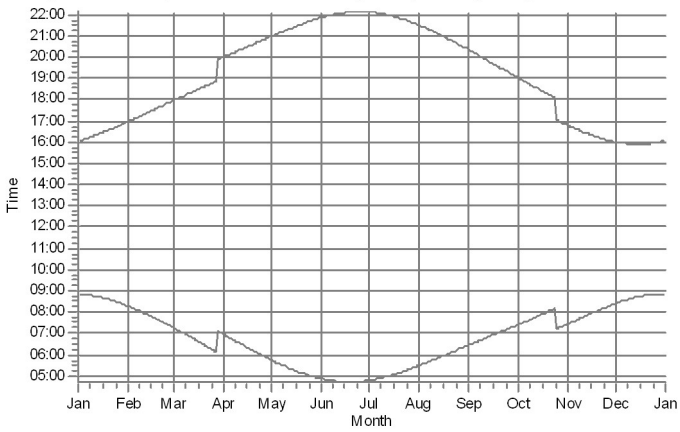
SHADOW - Calendar, graphical

Calculation: Foninės VE

S: Gyvenamasis pastatas: Normainėlių k. 1, Žeimių sen., Jonavos r. sav. (



T: Gyvenamasis pastatas: Normainėlių l k. 3, Žeimių sen., Jonavos r. sav.



WTGs

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 1 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:52	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:06	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	04:48	04:50	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:39	15:57
6	08:48	08:07	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:07	21:57	22:04	21:19	20:06	18:49	16:37	15:56
7	08:48	08:05	07:01	06:42	05:32	04:47	04:52	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:03	21:17	20:04	18:46	16:35	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:42	06:41	07:38	07:40	08:34
	16:13	17:13	18:11	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:55
9	08:46	08:01	06:56	06:37	05:28	04:45	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13	22:00	22:02	21:13	19:58	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:44	07:42	07:44	08:37
	16:16	17:17	18:15	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:43	07:46	08:38
	16:18	17:19	18:17	20:19	21:17	22:02	22:00	21:08	19:53	18:36	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:45	07:48	08:39
	16:20	17:21	18:19	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	04:43	05:00	05:52	06:50	07:47	07:50	08:41
	16:21	17:24	18:21	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:49	07:52	08:42
	16:23	17:26	18:23	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	04:43	05:02	05:55	06:54	07:51	07:54	08:43
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	16:28	17:32	18:29	20:30	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
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	16:30	17:34	18:31	20:32	21:29	22:07	21:52	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:01	07:59	08:02	08:46
	16:32	17:36	18:33	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:54
20	08:35	07:37	06:28	06:10	05:08	04:42	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:40	18:37	20:38	21:35	22:08	21:48	20:46	19:27	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:05	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:30	06:21	06:03	05:03	04:43	05:14	06:11	07:09	08:07	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:44	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:12	07:11	08:09	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:38	19:20	18:05	16:08	15:57
25	08:28	07:26	06:16	05:58	05:01	04:44	05:18	06:14	07:13	07:11	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:15	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	04:58	04:45	05:21	06:18	07:16	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:09	16:56	16:03	16:00
29	08:22		07:05	05:49	04:55	04:46	05:24	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 2 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:27	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:52	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:06	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	04:49	04:49	05:35	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	04:48	04:50	05:37	06:35	07:32	07:34	08:30
	16:09	17:06	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:51	16:39	15:57
6	08:48	08:07	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:07	21:57	22:04	21:19	20:06	18:49	16:37	15:56
7	08:48	08:05	07:01	06:42	05:32	04:47	04:52	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:03	21:17	20:04	18:46	16:35	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:53	05:42	06:41	07:38	07:40	08:34
	16:13	17:13	18:11	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:33	15:55
9	08:46	08:01	06:56	06:37	05:28	04:45	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13	22:00	22:02	21:13	19:58	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:44	07:41	07:44	08:37
	16:16	17:17	18:15	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:43	07:46	08:38
	16:18	17:19	18:17	20:19	21:17	22:02	22:00	21:08	19:53	18:36	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:45	07:48	08:39
	16:20	17:21	18:19	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	04:43	05:00	05:52	06:50	07:47	07:50	08:41
	16:21	17:23	18:21	20:23	21:21	22:04	21:58	21:04	19:48	18:31	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	04:43	05:01	05:54	06:52	07:49	07:52	08:42
	16:23	17:26	18:23	20:24	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	04:43	05:02	05:55	06:54	07:51	07:54	08:43
	16:25	17:28	18:25	20:26	21:24	22:05	21:56	20:59	19:43	18:27	16:21	15:54
16	08:40	07:46	06:39	06:20	05:15	04:43	05:04	05:57	06:56	07:53	07:56	08:43
	16:26	17:30	18:27	20:28	21:26	22:06	21:54	20:57	19:40	18:24	16:19	15:54
17	08:39	07:44	06:36	06:17	05:13	04:42	05:05	05:59	06:58	07:55	07:58	08:44
	16:28	17:32	18:29	20:30	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:33	06:15	05:11	04:42	05:06	06:01	06:59	07:57	08:00	08:45
	16:30	17:34	18:31	20:32	21:29	22:07	21:52	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:01	07:59	08:02	08:46
	16:32	17:36	18:33	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:54
20	08:35	07:37	06:28	06:10	05:08	04:42	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:40	18:37	20:38	21:35	22:08	21:48	20:46	19:27	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	04:43	05:13	06:09	07:07	08:05	08:08	08:48
	16:38	17:42	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:30	06:21	06:03	05:03	04:43	05:14	06:11	07:09	08:07	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:44	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:12	07:11	08:09	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:38	19:20	18:05	16:08	15:57
25	08:28	07:26	06:15	05:58	05:01	04:44	05:18	06:14	07:13	07:11	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:13	08:15	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	04:58	04:45	05:21	06:18	07:16	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:18	06:08	05:52	04:57	04:45	05:23	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:09	16:56	16:03	16:00
29	08:22		07:05	05:49	04:55	04:46	05:24	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:07	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:18		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 3 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:07	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:36	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:07	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:42	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:03	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:37	05:28	04:46	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:46	08:38
	16:18	17:19	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:48	08:39
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:49	07:52	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:51	07:54	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:46	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:53	07:56	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:55	07:58	08:44
	16:29	17:32	18:30	20:30	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:01	07:59	08:02	08:46
	16:32	17:36	18:33	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:35	07:37	06:28	06:10	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:41	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:05	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:14	06:11	07:09	08:07	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:38	19:20	18:05	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:15	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:56	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 4 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:07	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:03	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:37	05:28	04:46	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:46	08:38
	16:18	17:19	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:22	04:44	04:59	05:50	06:48	07:46	07:48	08:39
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:52	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:51	07:54	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:53	07:56	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:55	07:58	08:44
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	07:59	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:35	07:38	06:29	06:10	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:36	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:41	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 5 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:07	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:07	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:03	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:34
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:37	05:28	04:46	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:45	04:57	05:48	06:46	07:44	07:46	08:38
	16:18	17:19	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:22	04:44	04:59	05:50	06:48	07:46	07:48	08:39
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:49	07:52	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:51	07:54	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:46	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:53	07:56	08:43
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:55	07:58	08:44
	16:29	17:32	18:30	20:30	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:01	07:59	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:35	07:37	06:28	06:10	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:41	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:05	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:07	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:38	19:20	18:06	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:15	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:56	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:07	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 6 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17 07:43-07:58/15	06:58	05:45	04:52	04:48	05:30	06:28	07:25 08:17-08:37/20	07:26 07:57-08:06/9	08:24
	16:05	16:59	17:58	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14 07:41-07:59/18	06:55	05:43	04:51	04:48	05:32	06:30	07:26 08:16-08:38/22	07:28 08:00-08:05/5	08:26
	16:06	17:01	18:00	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12 07:40-08:01/21	06:53	05:41	04:50	04:49	05:34	06:32	07:28 08:15-08:38/23	07:30 08:02-08:04/2	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09 07:38-08:01/23	06:50	05:39	04:50	04:50	05:36	06:34	07:30 08:14-08:39/25	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:58
5	08:49	08:10	07:07 07:38-08:02/24	06:48	05:37	04:49	04:51	05:37	06:36	07:32 08:13-08:38/25	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08	07:04 07:37-08:02/25	06:45	05:35	04:48	04:52	05:39	06:37	07:34 08:13-08:38/25	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:49	16:38	15:57
7	08:48	08:06	07:02 07:37-08:02/25	06:43	05:33	04:47	04:53	05:41	06:39	07:36 08:13-08:38/25	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04 08:32-08:34/2	06:59 07:36-08:01/25	06:40	05:31	04:46	04:54	05:43	06:41	07:38 08:13-08:37/24	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02 08:30-08:36/6	06:57 07:37-08:02/25	06:38	05:29	04:46	04:55	05:45	06:43	07:40 08:13-08:36/23	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00 08:27-08:36/9	06:54 07:36-08:01/25	06:35	05:27	04:45	04:56	05:47	06:45	07:42 08:14-08:35/21	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58 08:25-08:37/12	06:52 07:36-07:59/23	06:33	05:25	04:45	04:58	05:48	06:47	07:44 08:14-08:34/20	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:56 08:23-08:38/15	06:49 07:38-07:59/21	06:30	05:23	04:44	04:59	05:50	06:49	07:46 08:16-08:32/16	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:27	15:55
13	08:44	07:53 08:21-08:38/17	06:47 07:38-07:57/19	06:28	05:21	04:44	05:00	05:52	06:51	07:48 08:17-08:30/13	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51 08:21-08:37/16	06:44 07:40-07:55/15	06:25	05:19	04:44	05:01	05:54	06:52	07:50 08:21-08:25/4	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:54
15	08:42	07:49 08:21-08:37/16	06:42 07:42-07:52/10	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47 08:22-08:37/15	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45 08:23-08:35/12	06:36	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42 08:25-08:34/9	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:09	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:55
21	08:35	07:36	06:26	06:08	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:43	05:15	06:11	07:09	08:08 08:57-09:01/4	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:29	06:19	06:01	05:02	04:44	05:16	06:13	07:11	08:10 08:55-09:05/10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12 07:53-08:06/13	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:08	21:42	20:36	19:18	17:04	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:45	05:20	06:17	07:15	07:14 07:52-08:07/15	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:16 07:51-08:07/16	08:18	08:50
	16:48	17:53	18:50	20:50	21:45	22:08	21:38	20:32	19:12	16:59	16:05	15:59
28	08:24	07:19 07:46-07:55/9	06:08	05:52	04:57	04:46	05:23	06:20	07:19 08:25-08:31/6	07:18 07:50-08:07/17	08:19	08:50
	16:50	17:55	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21 08:21-08:34/13	07:20 07:51-08:08/17	08:21	08:50
	16:52		19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55	16:02	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23 08:19-08:36/17	07:22 07:53-08:07/14	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:01		04:54		05:28	06:26		07:24 07:55-08:07/12		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	138	314	0	0	0	0	0	36	404	16	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 7 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (7)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:48	05:30	06:28	07:25 07:52-08:04/12	07:26	08:24
	16:04	16:59	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26 07:54-08:02/8	07:28	08:26
	16:06	17:01	18:00	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28 07:56-08:00/4	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54 07:19-07:20/1	06:35	05:27	04:45	04:56	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52 07:16-07:23/7	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49 07:14-07:24/10	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:27	15:55
13	08:44	07:53	06:47 07:11-07:25/14	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44 07:09-07:26/17	06:25	05:19	04:44	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:42 07:07-07:25/18	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39 07:07-07:25/18	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45	06:36 07:07-07:25/18	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34 07:07-07:23/16	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31 07:08-07:23/15	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29 07:09-07:20/11	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:14	15:55
21	08:34	07:35	06:26 07:12-07:18/6	06:08	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07 07:58-08:01/3	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:43	05:15	06:11	07:09 07:54-08:04/10	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:28	06:19	06:01	05:02	04:44	05:16	06:13	07:11 07:52-08:06/14	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13 07:51-08:07/16	07:12	08:14	08:49
	16:44	17:49	18:46	20:47	21:42	22:08	21:42	20:36	19:18	17:03	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:45	05:20	06:17	07:15 07:49-08:06/17	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17 07:48-08:06/18	07:16	08:18	08:50
	16:48	17:53	18:50	20:50	21:45	22:08	21:38	20:32	19:12	16:59	16:05	15:59
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:20	07:19 07:48-08:06/18	07:18	08:19	08:50
	16:50	17:55	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21 07:48-08:06/18	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:55	16:02	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23 07:50-08:05/15	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:01		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	151	0	0	0	0	0	129	24	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 8 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:48	05:30	06:28	07:24	07:26	08:24
	16:04	16:59	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:01	17:59	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:27	04:45	04:56	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:44	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45	06:36	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:14	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:12	06:07	07:05	08:04	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:50	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:05	15:59
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:27	19:07	16:55	16:02	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:01		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 9 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (9)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:09	21:58	22:03	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:38	05:28	04:46	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:33	05:24	04:45	04:57	05:48	06:47	07:44	07:46	08:38
	16:18	17:19	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:48	08:39
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:52	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:54	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:53	07:56	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:55	07:58	08:44
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	07:59	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:35	07:38	06:29	06:10	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:39	18:36	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:41	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 10 - GE WIND ENERGY 5.5-158 Thrust 665 5500 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	16:00
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:09	21:58	22:03	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:46	08:38
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:48	08:39
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:52	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:54	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:56	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	06:00	06:58	07:55	07:58	08:44
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	07:59	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:35	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:39	18:36	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06	08:47
	16:36	17:41	18:38	20:38	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	05:00	04:44	05:20	06:16	07:15	07:14	08:15	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:55	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 11 - GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	16:00
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:09	21:58	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:33	05:24	04:45	04:57	05:48	06:47	07:44	07:46	08:38
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59	08:44
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:00	08:45
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:51	20:50	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:03	08:02	08:04	08:47
	16:34	17:39	18:36	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06	08:47
	16:36	17:41	18:38	20:38	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	05:00	04:44	05:20	06:16	07:15	07:14	08:16	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:55	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 12 - GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	16:00
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:09	21:58	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:33	05:24	04:45	04:57	05:48	06:47	07:44	07:46	08:38
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59	08:44
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:00	08:45
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:51	20:50	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:03	08:02	08:04	08:47
	16:34	17:39	18:36	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06	08:47
	16:36	17:41	18:38	20:38	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:20	06:16	07:15	07:14	08:16	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 13 - GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:07	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:36	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:42	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:37	05:28	04:46	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:46	08:38
	16:18	17:19	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:48	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:51	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:53	07:56	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:55	07:58	08:44
	16:28	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:01	07:59	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:36	07:37	06:29	06:10	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:41	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:14	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:05	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:56	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 14 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:03	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:33	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:47	16:00
3	08:50	08:14	07:12	06:53	05:42	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:08	17:03	18:02	20:04	21:02	21:54	22:06	21:25	20:14	18:57	16:44	16:00
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:33	07:35	08:31
	16:10	17:08	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:49	04:53	05:40	06:38	07:34	07:37	08:32
	16:12	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:58
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:42	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	07:00	06:41	05:31	04:47	04:55	05:43	06:42	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:35	15:57
9	08:47	08:02	06:57	06:38	05:29	04:47	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:18	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:57	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:55	06:53	07:50	07:53	08:42
	16:24	17:27	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:28	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:57	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:44	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:06	21:53	20:55	19:39	18:23	16:19	15:55
18	08:38	07:43	06:34	06:16	05:13	04:44	05:08	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:14	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:56
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:49	19:31	18:16	16:14	15:56
21	08:35	07:36	06:27	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:09	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:45	05:17	06:13	07:12	08:10	08:12	08:49
	16:43	17:48	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:02	04:45	05:19	06:15	07:13	07:12	08:14	08:49
	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:37	19:18	17:04	16:08	15:59
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:46	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:57	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:04	05:48	04:55	04:48	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:27		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 15 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:33	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:47	16:00
3	08:50	08:14	07:12	06:53	05:42	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:08	17:03	18:02	20:04	21:02	21:54	22:06	21:25	20:14	18:57	16:44	16:00
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:31	07:32	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:32	07:35	08:31
	16:10	17:08	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:49	04:53	05:40	06:38	07:34	07:37	08:32
	16:12	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:58
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:42	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:55	05:43	06:42	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:35	15:57
9	08:47	08:02	06:57	06:38	05:29	04:47	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:18	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:57	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:55	06:53	07:50	07:53	08:42
	16:24	17:27	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:57	07:54	07:57	08:44
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17	08:39	07:45	06:37	06:18	05:14	04:44	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:06	21:53	20:55	19:39	18:23	16:19	15:55
18	08:38	07:42	06:34	06:16	05:13	04:44	05:08	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:14	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:56
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:16	16:14	15:56
21	08:34	07:36	06:27	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:09	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:45	05:17	06:13	07:12	08:10	08:12	08:49
	16:43	17:48	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:02	04:45	05:19	06:15	07:13	07:12	08:14	08:49
	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:37	19:18	17:04	16:08	15:59
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:46	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:44	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:57	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:04	05:48	04:55	04:48	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:07	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:27		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 16 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:51	22:07	21:29	20:19	19:02	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:42	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:08	17:03	18:02	20:04	21:02	21:54	22:06	21:25	20:14	18:57	16:44	16:00
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:31	07:32	08:29
	16:09	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:49	04:53	05:40	06:38	07:34	07:37	08:32
	16:12	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:58
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:42	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:55	05:43	06:42	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:47	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:55	06:53	07:50	07:53	08:42
	16:24	17:27	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:40	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:44	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:23	16:19	15:55
18	08:38	07:42	06:34	06:16	05:13	04:44	05:08	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:14	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:56
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:56
21	08:34	07:36	06:27	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:06	08:47
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:48	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:02	04:45	05:19	06:15	07:13	07:12	08:14	08:49
	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:37	19:18	17:04	16:07	15:59
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	04:46	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:50	21:44	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:48	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:07	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 17 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:42	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:08	17:03	18:02	20:04	21:02	21:54	22:06	21:25	20:14	18:57	16:44	16:00
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:31	07:32	08:29
	16:09	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:49	04:53	05:40	06:38	07:34	07:37	08:32
	16:12	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:58
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:42	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:55	05:43	06:42	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:57	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:55	06:53	07:50	07:53	08:42
	16:24	17:27	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:44	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:23	16:19	15:55
18	08:38	07:42	06:34	06:16	05:13	04:44	05:08	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:14	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:56
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:56
21	08:34	07:36	06:27	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:48	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:02	04:45	05:19	06:15	07:13	07:12	08:14	08:49
	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:46	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:50	21:44	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:48	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:07	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:27		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 18 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:51	22:07	21:29	20:19	19:02	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:30	07:32	08:29
	16:09	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:32	07:34	08:31
	16:10	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:48	04:53	05:40	06:38	07:34	07:37	08:32
	16:11	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:41	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:55	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:40	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:44	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:23	16:19	15:55
18	08:38	07:42	06:34	06:16	05:12	04:44	05:08	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:55
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:56
21	08:34	07:36	06:26	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:07	08:47
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:02	04:45	05:19	06:15	07:13	07:12	08:14	08:49
	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:36	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	04:46	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:50	21:44	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:07	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 19 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:42	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:08	17:03	18:02	20:04	21:02	21:54	22:06	21:25	20:14	18:57	16:44	16:00
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:49	04:53	05:40	06:38	07:34	07:37	08:32
	16:12	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:58
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:42	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:55	05:43	06:42	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:57	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:53	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:55	06:53	07:50	07:53	08:42
	16:24	17:27	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
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	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:14	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:56
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:56
21	08:35	07:36	06:27	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
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	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:09	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:12	08:10	08:12	08:49
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	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:37	19:18	17:04	16:07	15:58
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	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:48	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:27		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 20 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:48	05:30	06:28	07:24	07:26	08:24
	16:05	16:59	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:01	18:00	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:50	04:50	05:36	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:31
	16:10	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:27	04:45	04:56	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:44	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:42	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45	06:36	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:09	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:14	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:12	06:07	07:06	08:04	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:28	06:19	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:18	17:03	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:16	08:18	08:50
	16:48	17:53	18:50	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:05	15:59
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:52	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:27	19:07	16:55	16:02	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:01		04:54		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 21 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:48	05:30	06:28	07:24	07:26	08:24
	16:04	16:59	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:01	18:00	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:27	04:45	04:56	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:44	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:42	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45	06:36	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:14	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:12	06:07	07:05	08:04	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:18	17:03	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:16	08:18	08:50
	16:48	17:53	18:50	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:05	15:59
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:27	19:07	16:55	16:02	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:01		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 22 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:01	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	16:00
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:52	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:47	08:38
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44	06:36	06:18	05:14	04:43	05:05	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:01	08:45
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:31	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04	08:02	08:04	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06	08:47
	16:36	17:41	18:38	20:38	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:56	05:00	04:44	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:55	04:47	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 23 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:01	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:43	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:44	06:36	06:18	05:14	04:43	05:05	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:01	08:45
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:44	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:58
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:55	04:47	05:26	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 24 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (24)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50 14:58-15:25/27	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24 14:41-15:16/35
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50 14:57-15:25/28	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26 14:42-15:16/34
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:50 14:58-15:27/29	08:13	07:11	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27 14:43-15:16/33
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49 14:58-15:28/30	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29 14:44-15:16/32
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49 14:59-15:29/30	08:10	07:07	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:31 14:44-15:16/32
	16:09	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48 14:58-15:30/32	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32 14:45-15:16/31
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48 14:58-15:31/33	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33 14:45-15:16/31
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47 14:58-15:32/34	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35 14:46-15:16/30
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47 14:59-15:32/33	08:02	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:43	08:36 14:46-15:15/29
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46 14:59-15:33/34	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:37 14:46-15:14/28
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45 14:59-15:34/35	07:57	06:52	06:33	05:24	04:45	04:57	05:48	06:47	07:44	07:47	08:39 14:48-15:15/27
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44 14:59-15:35/36	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:49 14:56-15:04/8	08:40 14:48-15:14/26
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43 15:00-15:35/35	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51 14:54-15:07/13	08:41 14:49-15:14/25
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42 15:00-15:36/36	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53 14:47-15:08/21	08:42 14:49-15:14/25
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41 15:01-15:37/36	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55 14:44-15:09/25	08:43 14:50-15:13/23
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40 15:01-15:37/36	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57 14:43-15:11/28	08:44 14:51-15:13/22
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:57	19:41	18:24	16:20	15:54
17	08:39 15:02-15:38/36	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59 14:42-15:12/30	08:45 14:52-15:14/22
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38 15:02-15:38/36	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:01 14:41-15:12/31	08:45 14:52-15:14/22
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37 15:02-15:38/36	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03 14:40-15:13/33	08:46 14:53-15:14/21
	16:32	17:36	18:34	20:35	21:31	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36 15:04-15:39/35	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:03	08:02	08:04 14:39-15:13/34	08:47 14:53-15:14/21
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34 15:04-15:39/35	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06 14:40-15:15/35	08:47 14:54-15:15/21
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33 15:04-15:38/34	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08 14:40-15:15/35	08:48 14:54-15:15/21
	16:38	17:43	18:40	20:40	21:37	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:32 15:06-15:39/33	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10 14:40-15:15/35	08:49 14:55-15:16/21
	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30 15:07-15:38/31	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12 14:40-15:15/35	08:49 14:55-15:16/21
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29 15:08-15:38/30	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14 14:40-15:16/36	08:49 14:55-15:17/22
	16:44	17:49	18:45	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27 15:10-15:38/28	07:24	06:13	05:56	04:59	04:44	05:20	06:16	07:15	07:14	08:16 14:40-15:16/36	08:50 14:55-15:17/22
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25 15:12-15:37/25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17 14:40-15:16/36	08:50 14:56-15:18/22
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24 15:16-15:36/20	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19 14:40-15:16/36	08:50 14:56-15:19/23
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22 15:22-15:35/13		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21 14:41-15:16/35	08:50 14:56-15:20/24
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:01
30	08:21 15:25-15:32/7		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:23 14:40-15:16/36	08:50 14:57-15:21/24
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50 14:57-15:23/26
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	923	0	0	0	0	0	0	0	0	0	578	796

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 25 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17 15:55-16:12/17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26 15:16-16:02/46	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15 15:53-16:14/21	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28 15:16-16:01/45	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:50	08:13 15:52-16:16/24	07:11	06:53	05:41	04:50	04:49	05:33	06:32	07:28	07:30 15:17-15:59/42	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11 15:51-16:22/31	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32 15:18-15:59/41	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:10 15:50-16:25/35	07:07	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34 15:19-15:57/38	08:31
	16:09	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08 15:49-16:28/39	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36 15:20-15:55/35	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06 15:48-16:29/41	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38 15:20-15:52/32	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04 15:47-16:30/43	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40 15:23-15:47/24	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02 15:47-16:31/44	06:57	06:38	05:28	04:46	04:55	05:44	06:43	07:40	07:43 15:24-15:45/21	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00 15:46-16:32/46	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45 15:26-15:43/17	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57 15:46-16:33/47	06:52	06:33	05:24	04:44	04:57	05:48	06:47	07:44	07:47 15:30-15:41/11	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55 15:46-16:34/48	06:49	06:30	05:23	04:44	04:58	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53 15:46-16:34/48	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51 15:46-16:35/49	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50 16:42-16:56/14	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49 15:46-16:35/49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:52 16:34-16:58/24	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47 15:46-16:35/49	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54 16:28-17:00/32	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44 15:46-16:35/49	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56 16:25-17:01/36	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42 15:47-16:35/48	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58 16:23-17:02/39	08:01	08:45
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40 15:47-16:34/47	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00 16:21-17:03/42	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38 15:48-16:34/46	06:29	06:11	05:08	04:43	05:10	06:05	07:03	08:02 16:21-17:04/43	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35 15:48-16:33/45	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04 16:19-17:05/46	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33 15:50-16:33/43	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06 16:18-17:05/47	08:08	08:48
	16:38	17:43	18:40	20:40	21:37	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:32	07:31 15:52-16:32/40	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08 16:17-17:05/48	08:10	08:49
	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28 15:53-16:31/38	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10 16:16-17:05/49	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26 15:55-16:30/35	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12 15:16-16:04/48	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24 15:58-16:27/29	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14 15:16-16:05/49	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21 16:08-16:25/17	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16 15:16-16:05/49	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19 16:11-16:21/10	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18 15:15-16:04/49	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20 15:15-16:03/48	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22 15:15-16:03/48	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19 15:58-16:09/11		07:00		04:53		05:28	06:26		07:24 15:16-16:03/47		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	11	1078	0	0	0	0	0	0	0	758	352	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 26 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February		March		April	May	June	July	August	September	October		November	December
1	08:50	08:17		07:16	17:01-17:28/27	06:58	05:45	04:52	04:47	05:30	06:28	07:24		07:26	08:24
	16:04	16:58		17:57		19:59	20:58	21:52	22:07	21:29	20:19	19:02		16:48	16:00
2	08:50	08:15		07:14	17:00-17:28/28	06:55	05:43	04:51	04:48	05:32	06:30	07:26		07:28	08:26
	16:05	17:00		17:59		20:01	21:00	21:53	22:07	21:27	20:17	18:59		16:46	15:59
3	08:50	08:13		07:12	17:00-17:29/29	06:53	05:41	04:50	04:49	05:34	06:32	07:28	17:46-17:59/13	07:30	08:28
	16:07	17:03		18:01		20:03	21:02	21:54	22:06	21:25	20:14	18:57		16:44	15:59
4	08:49	08:12		07:09	16:59-17:28/29	06:50	05:39	04:49	04:50	05:35	06:33	07:30	17:42-18:01/19	07:32	08:29
	16:08	17:05		18:03		20:05	21:04	21:55	22:06	21:23	20:11	18:54		16:42	15:58
5	08:49	08:10		07:07	17:00-17:28/28	06:48	05:37	04:48	04:51	05:37	06:35	07:32	17:39-18:02/23	07:34	08:31
	16:09	17:07		18:06		20:07	21:06	21:57	22:05	21:21	20:09	18:52		16:40	15:57
6	08:48	08:08		07:04	17:00-17:27/27	06:45	05:35	04:48	04:52	05:39	06:37	07:34	17:38-18:03/25	07:36	08:32
	16:11	17:09		18:08		20:09	21:08	21:58	22:04	21:19	20:06	18:49		16:38	15:57
7	08:48	08:06		07:02	17:00-17:26/26	06:43	05:32	04:47	04:53	05:41	06:39	07:36	17:36-18:03/27	07:38	08:33
	16:12	17:11		18:10		20:11	21:10	21:59	22:04	21:17	20:04	18:47		16:36	15:56
8	08:47	08:04		06:59	17:02-17:26/24	06:40	05:30	04:46	04:54	05:43	06:41	07:38	17:35-18:03/28	07:41	08:35
	16:14	17:13		18:12		20:13	21:12	22:00	22:03	21:15	20:01	18:44		16:34	15:56
9	08:47	08:02		06:57	17:03-17:24/21	06:38	05:28	04:46	04:55	05:45	06:43	07:40	17:35-18:03/28	07:43	08:36
	16:15	17:15		18:14		20:15	21:13	22:01	22:02	21:13	19:59	18:42		16:32	15:55
10	08:46	08:00		06:54	17:06-17:22/16	06:35	05:26	04:45	04:56	05:46	06:45	07:42	17:34-18:03/29	07:45	08:37
	16:17	17:17		18:16		20:17	21:15	22:02	22:01	21:11	19:56	18:39		16:30	15:55
11	08:45	07:58		06:52	17:12-17:18/6	06:33	05:24	04:45	04:57	05:48	06:47	07:44	17:34-18:03/29	07:47	08:39
	16:18	17:20		18:18		20:19	21:17	22:02	22:00	21:09	19:54	18:37		16:28	15:55
12	08:44	07:55		06:49		06:30	05:23	04:44	04:59	05:50	06:48	07:46	17:34-18:02/28	07:49	08:40
	16:20	17:22		18:20		20:21	21:19	22:03	21:59	21:07	19:51	18:34		16:26	15:54
13	08:43	07:53		06:47		06:28	05:21	04:44	05:00	05:52	06:50	07:48	17:34-18:01/27	07:51	08:41
	16:22	17:24		18:22		20:23	21:21	22:04	21:58	21:04	19:48	18:32		16:25	15:54
14	08:43	07:51		06:44		06:25	05:19	04:43	05:01	05:54	06:52	07:50	17:34-17:59/25	07:53	08:42
	16:23	17:26		18:24		20:25	21:23	22:05	21:57	21:02	19:46	18:29		16:23	15:54
15	08:42	07:49		06:41		06:23	05:17	04:43	05:03	05:56	06:54	07:52	17:34-17:56/22	07:55	08:43
	16:25	17:28		18:26		20:27	21:25	22:05	21:56	21:00	19:43	18:27		16:21	15:54
16	08:40	07:47		06:39		06:20	05:15	04:43	05:04	05:58	06:56	07:54	17:35-17:54/19	07:57	08:44
	16:27	17:30		18:28		20:29	21:26	22:06	21:55	20:58	19:41	18:24		16:20	15:54
17	08:39	07:44		06:36		06:18	05:13	04:43	05:05	05:59	06:58	07:56	17:36-17:51/15	07:59	08:45
	16:29	17:32		18:30		20:31	21:28	22:06	21:53	20:55	19:38	18:22		16:18	15:54
18	08:38	07:42		06:34		06:15	05:12	04:43	05:07	06:01	07:00	07:58	17:38-17:48/10	08:01	08:46
	16:30	17:34		18:32		20:33	21:30	22:07	21:52	20:53	19:36	18:20		16:16	15:54
19	08:37	07:40		06:31		06:13	05:10	04:43	05:08	06:03	07:02	08:00		08:03	08:46
	16:32	17:36		18:34		20:35	21:32	22:07	21:51	20:51	19:33	18:17		16:15	15:55
20	08:36	07:38		06:29		06:11	05:08	04:43	05:10	06:05	07:04	08:02		08:05	08:47
	16:34	17:39		18:36		20:37	21:33	22:08	21:49	20:48	19:30	18:15		16:13	15:55
21	08:34	07:35		06:26		06:08	05:07	04:43	05:11	06:07	07:05	08:04		08:06	08:48
	16:36	17:41		18:38		20:39	21:35	22:08	21:48	20:46	19:28	18:13		16:12	15:55
22	08:33	07:33		06:24		06:06	05:05	04:43	05:13	06:09	07:07	08:06		08:08	08:48
	16:38	17:43		18:40		20:41	21:37	22:08	21:46	20:44	19:25	18:10		16:11	15:56
23	08:32	07:31	17:11-17:16/5	06:21		06:03	05:04	04:43	05:15	06:11	07:09	08:08		08:10	08:49
	16:40	17:45		18:42		20:42	21:38	22:08	21:45	20:41	19:23	18:08		16:09	15:56
24	08:30	07:28	17:06-17:18/12	06:18		06:01	05:02	04:44	05:16	06:13	07:11	08:10		08:12	08:49
	16:42	17:47		18:44		20:44	21:40	22:08	21:43	20:39	19:20	18:06		16:08	15:57
25	08:29	07:26	17:05-17:21/16	06:16		05:59	05:01	04:44	05:18	06:15	07:13	07:12		08:14	08:49
	16:44	17:49		18:46		20:46	21:41	22:08	21:42	20:36	19:17	17:03		16:07	15:58
26	08:27	07:24	17:03-17:22/19	06:13		05:56	04:59	04:44	05:20	06:16	07:15	07:14		08:16	08:50
	16:46	17:51		18:47		20:48	21:43	22:08	21:40	20:34	19:15	17:01		16:05	15:58
27	08:26	07:21	17:02-17:25/23	06:11		05:54	04:58	04:45	05:21	06:18	07:17	07:16		08:18	08:50
	16:48	17:53		18:49		20:50	21:44	22:08	21:38	20:31	19:12	16:59		16:04	15:59
28	08:24	07:19	17:01-17:27/26	06:08		05:52	04:57	04:45	05:23	06:20	07:19	07:18		08:19	08:50
	16:50	17:55		18:51		20:52	21:46	22:08	21:36	20:29	19:10	16:57		16:03	16:00
29	08:22			07:06		05:50	04:56	04:46	05:25	06:22	07:21	07:20		08:21	08:50
	16:52			19:53		20:54	21:47	22:08	21:35	20:26	19:07	16:54		16:02	16:01
30	08:21			07:03		05:47	04:54	04:47	05:26	06:24	07:22	07:22		08:23	08:50
	16:54			19:55		20:56	21:49	22:08	21:33	20:24	19:05	16:52		16:01	16:02
31	08:19			07:00			04:53		05:28	06:26		07:24			08:50
	16:56			19:57			21:50		21:31	20:22		16:50			16:03
Potential sun hours	243	270		366		423	501	519	521	465	383	326		253	225
Sum of minutes with flicker	0	101		261		0	0	0	0	0	0	367		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 27 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58 18:55-19:14/19	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55 18:56-19:13/17	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:13	07:12	06:53 18:58-19:09/11	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:39	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:46	04:55	05:45	06:43 18:52-19:03/11	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45 18:49-19:05/16	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24	04:44	04:57	05:48	06:47 18:47-19:06/19	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49 18:46-19:07/21	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50 18:45-19:08/23	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52 18:44-19:08/24	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54 18:44-19:08/24	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56 18:42-19:07/25	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:20	15:54
17	08:39	07:45	06:36	06:18	05:13	04:43	05:05	05:59	06:58 18:42-19:07/25	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00 18:43-19:06/23	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02 18:43-19:04/21	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04 18:44-19:01/17	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26 18:02-18:10/8	06:08	05:07	04:43	05:11	06:07	07:05 18:45-18:59/14	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24 18:00-18:13/13	06:06	05:05	04:43	05:13	06:09	07:07 18:47-18:56/9	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21 17:57-18:14/17	06:03	05:04	04:43	05:15	06:11	07:09 18:50-18:53/3	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18 17:57-18:17/20	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16 17:55-18:18/23	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13 17:54-18:18/24	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11 17:54-18:19/25	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08 17:53-18:18/25	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06 18:54-19:18/24	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03 18:53-19:17/24	05:47	04:54	04:47	05:26	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00 18:54-19:16/22		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	225	47	0	0	0	0	275	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Foninës VE WTG: 28 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24	04:45	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:42	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45	06:36	06:18	05:13	04:43	05:05	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:35	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:46	21:42	22:09	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:56	04:59	04:44	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:58
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:50	20:50	21:45	22:08	21:38	20:32	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54	04:47	05:26	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

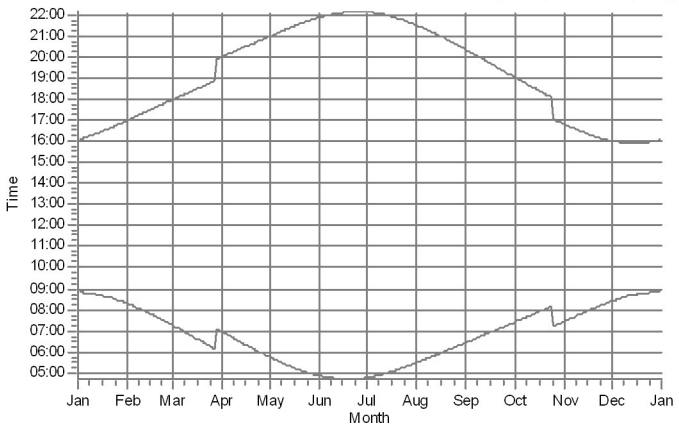
Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

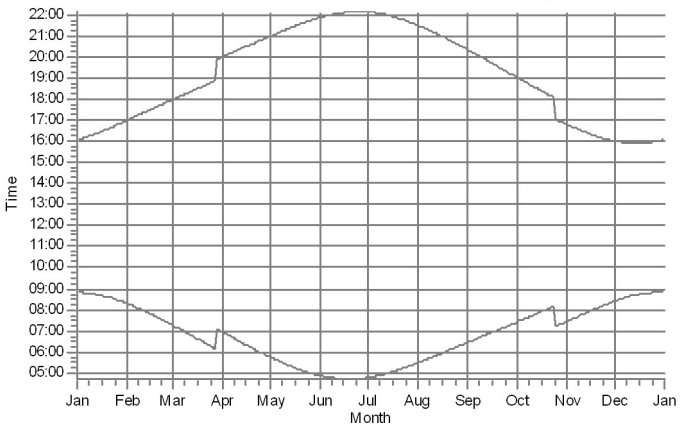
SHADOW - Calendar per WTG, graphical

Calculation: Foninës VE

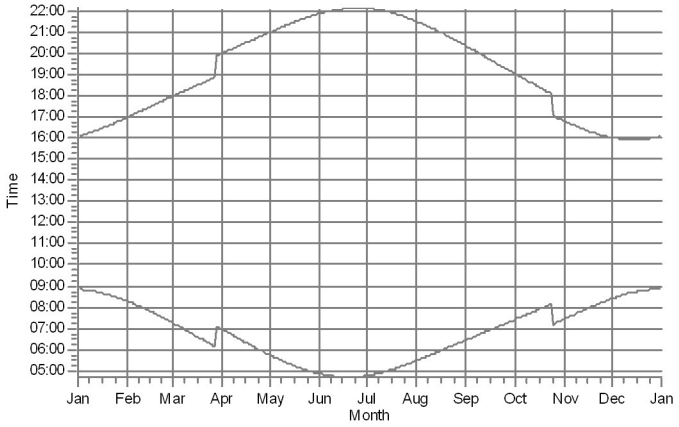
1: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m)



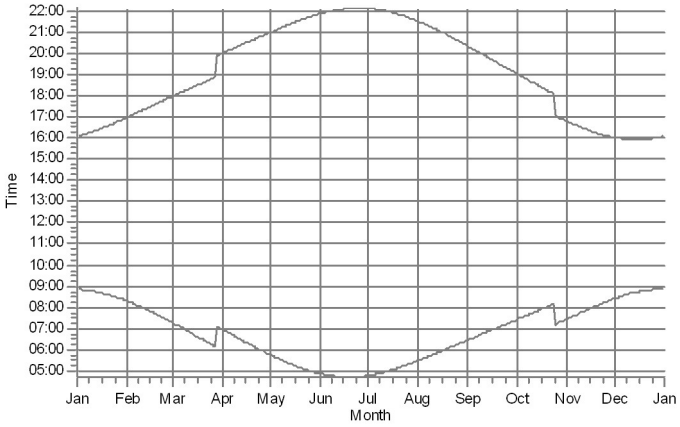
2: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m)



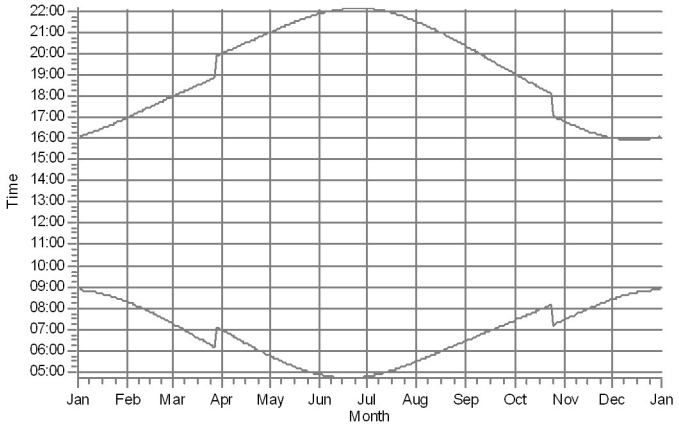
3: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m)



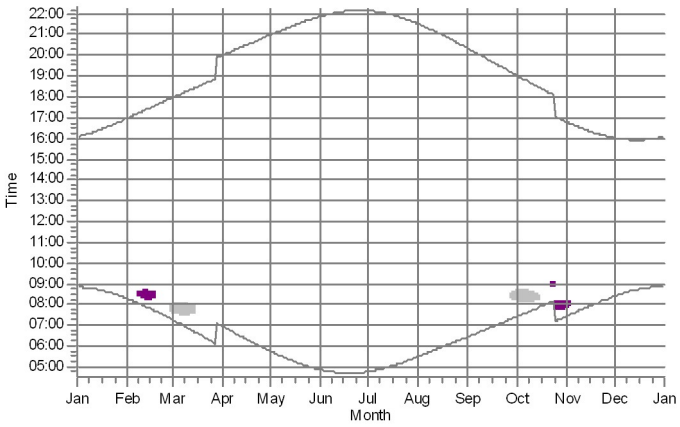
4: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m)



5: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m)



6: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m)



Shadow receptors

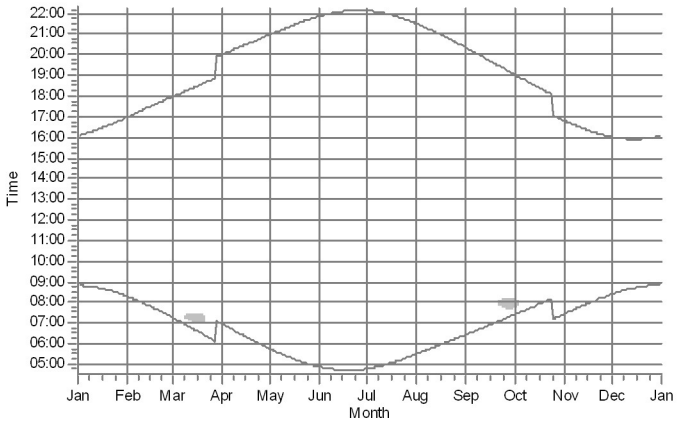
K: Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)

L: Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)

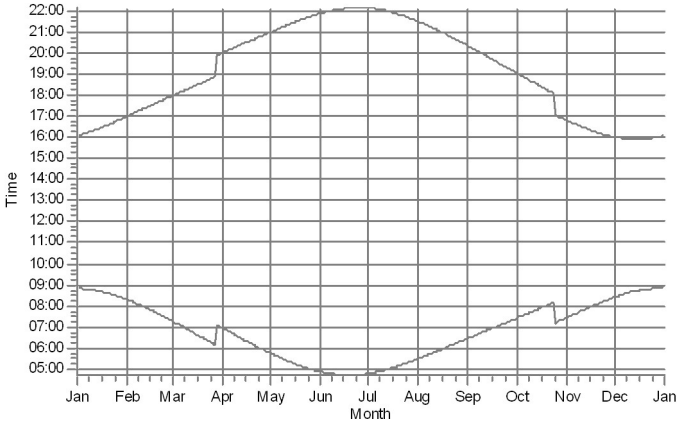
SHADOW - Calendar per WTG, graphical

Calculation: Foninës VE

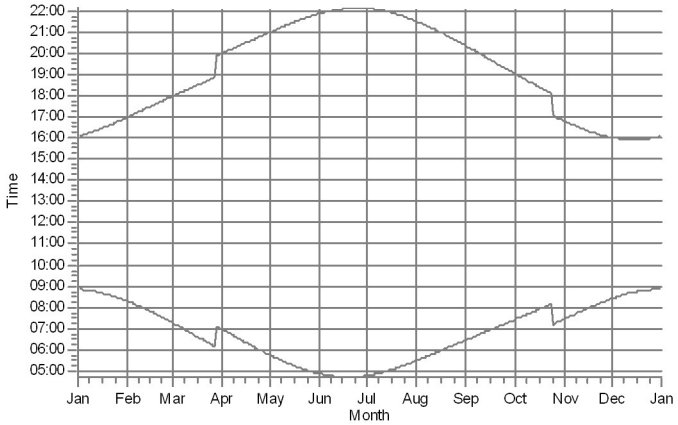
7: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m)



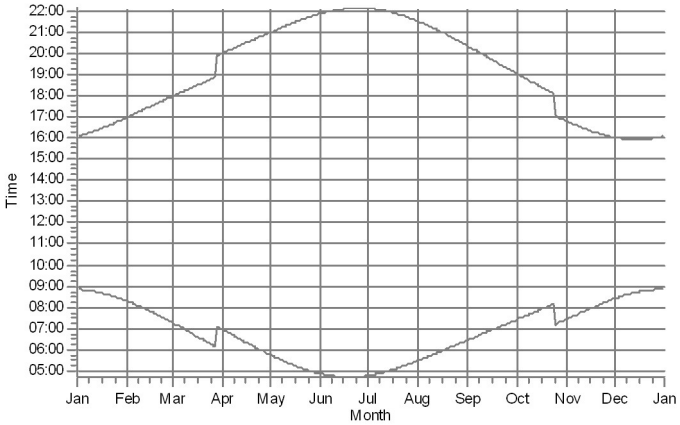
8: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m)



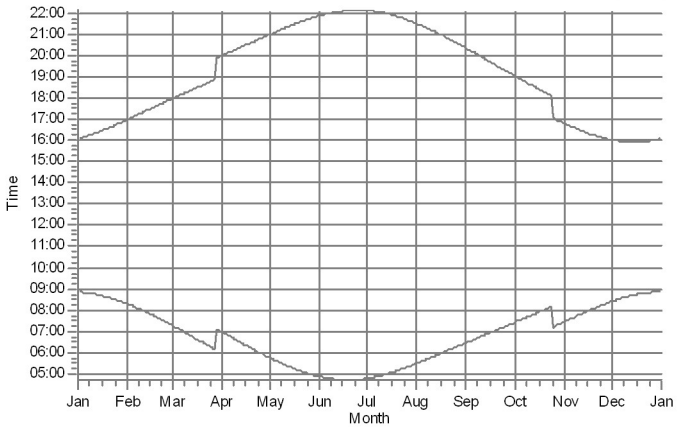
9: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m)



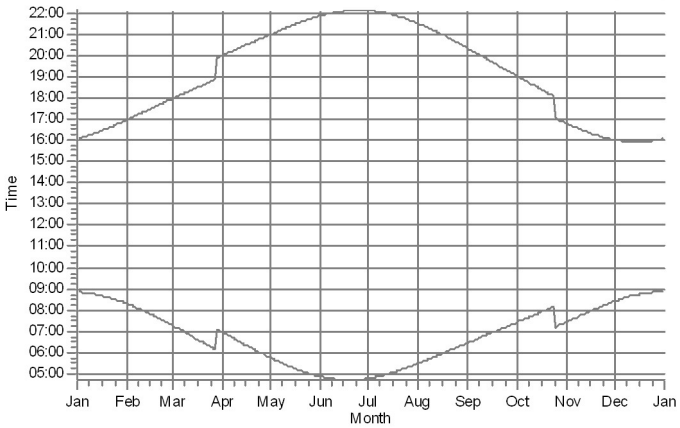
10: GE WIND ENERGY 5.5-158 Thrust 665 5500 158.0 !O! hub: 151,0 m (T



11: GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (T



12: GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (T



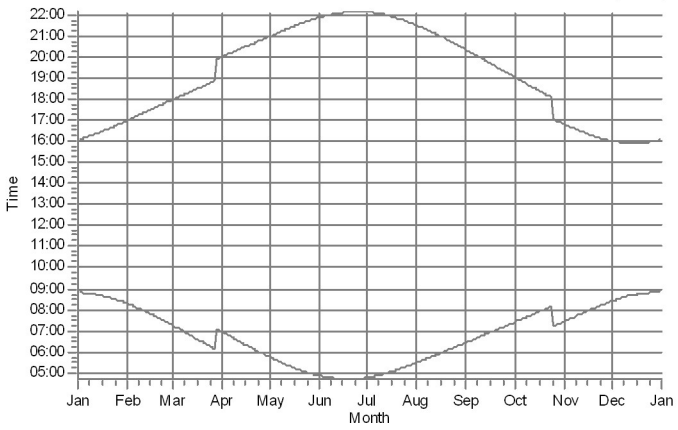
Shadow receptors

L: Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)

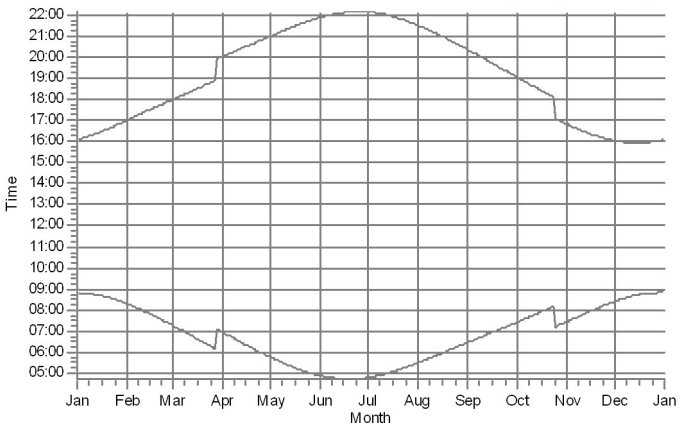
SHADOW - Calendar per WTG, graphical

Calculation: Foninës VE

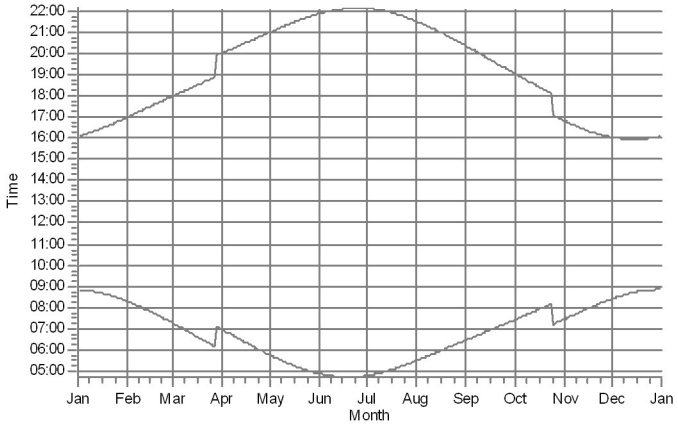
13: GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (T



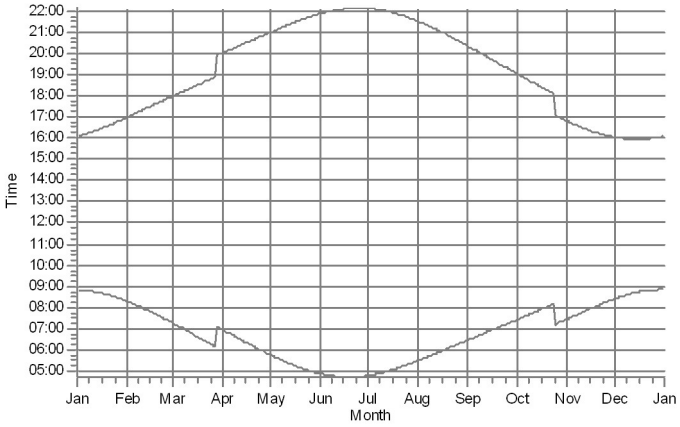
14: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



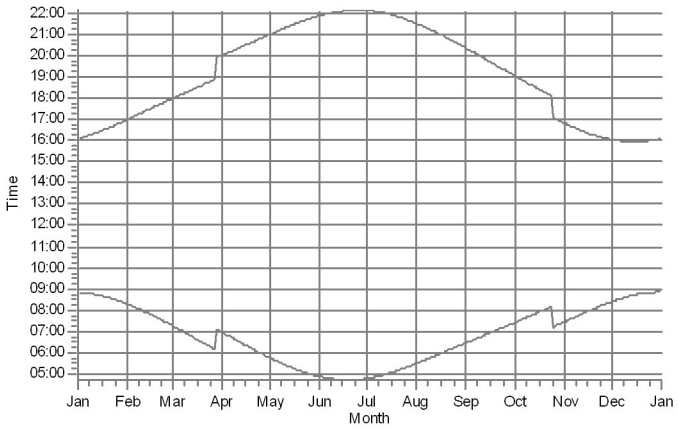
15: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



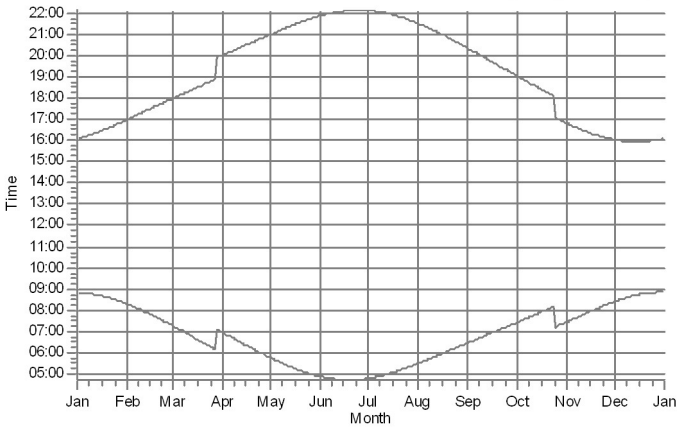
16: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



17: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



18: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m

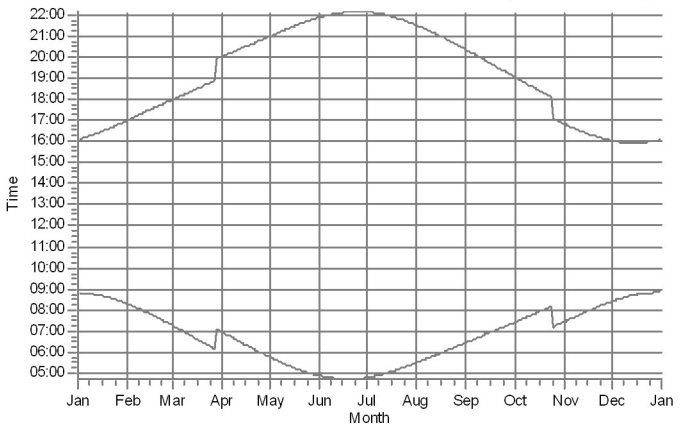


Shadow receptors

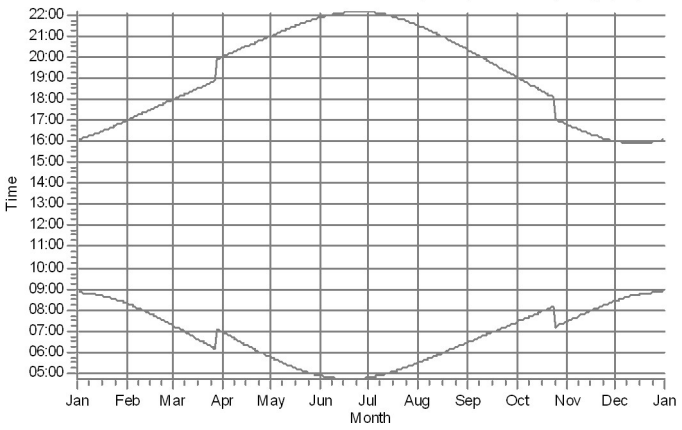
SHADOW - Calendar per WTG, graphical

Calculation: Foninës VE

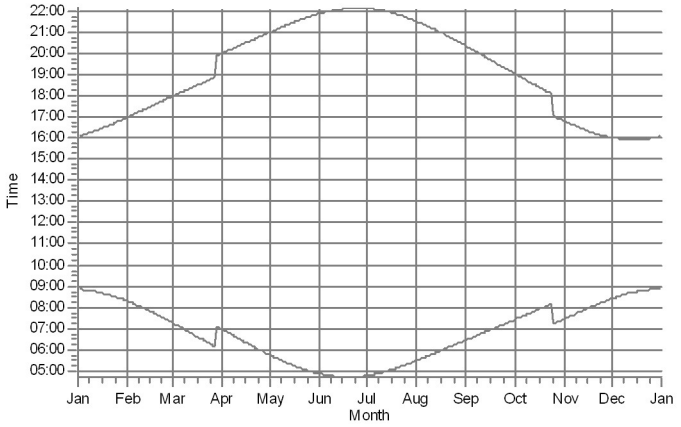
19: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



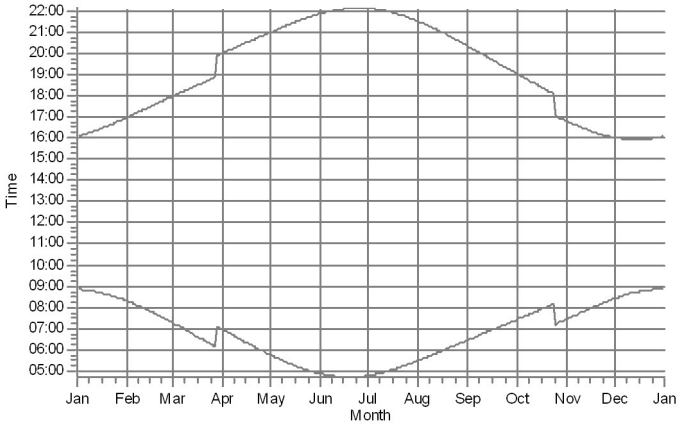
20: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (20)



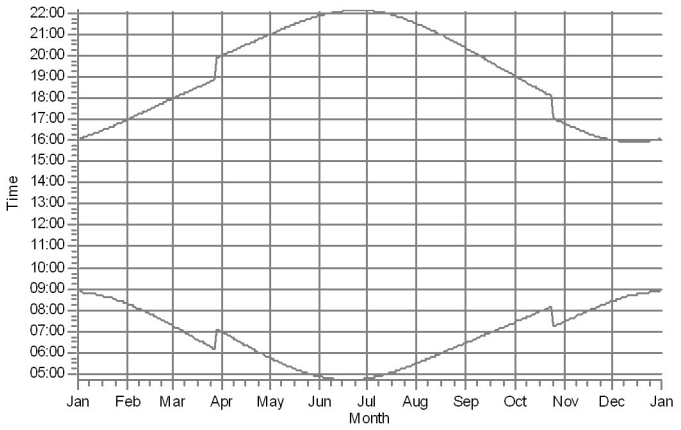
21: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (21)



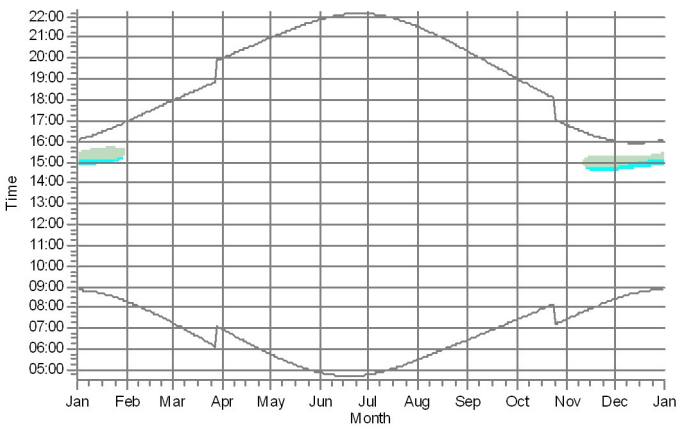
22: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (22)



23: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (23)



24: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (24)



Shadow receptors

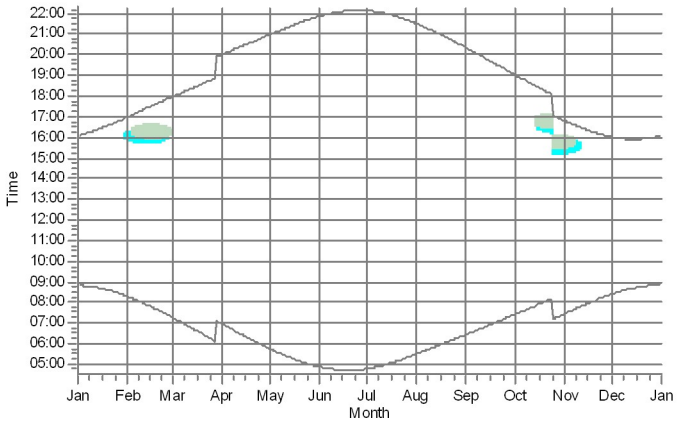
M: Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)

N: Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

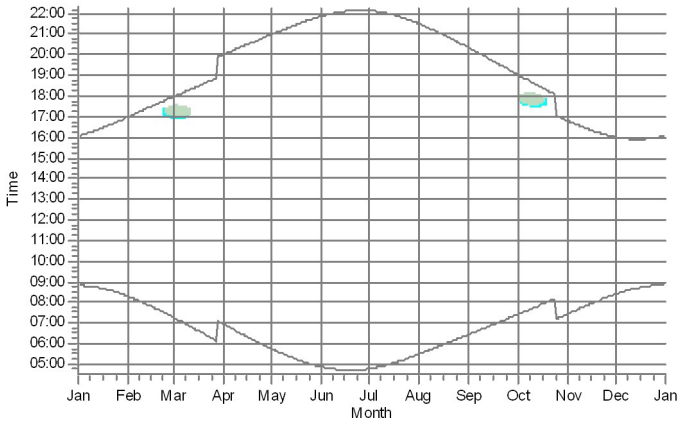
SHADOW - Calendar per WTG, graphical

Calculation: Foninës VE

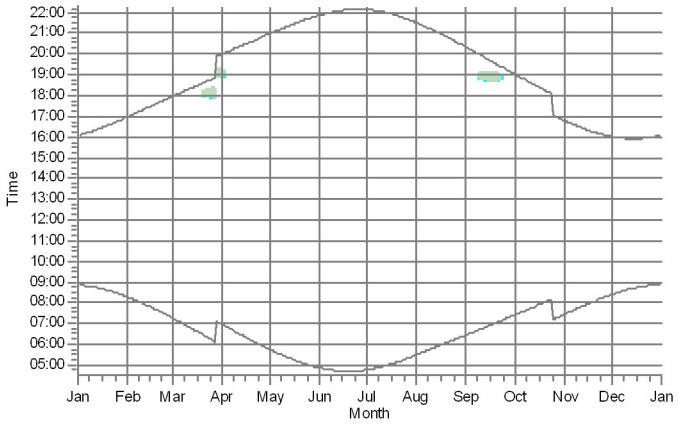
25: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (25)



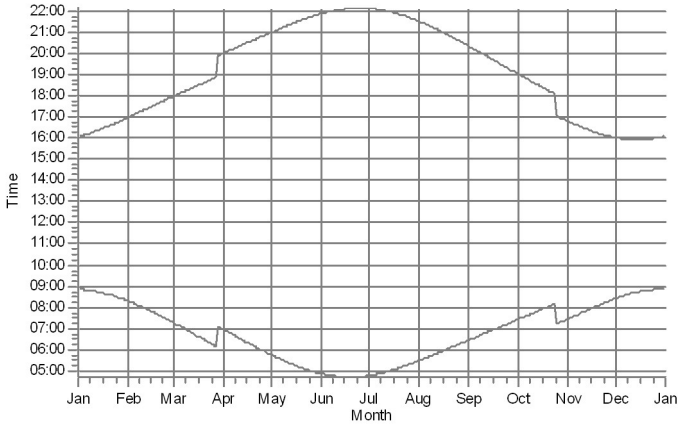
26: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (26)



27: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (27)



28: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (28)



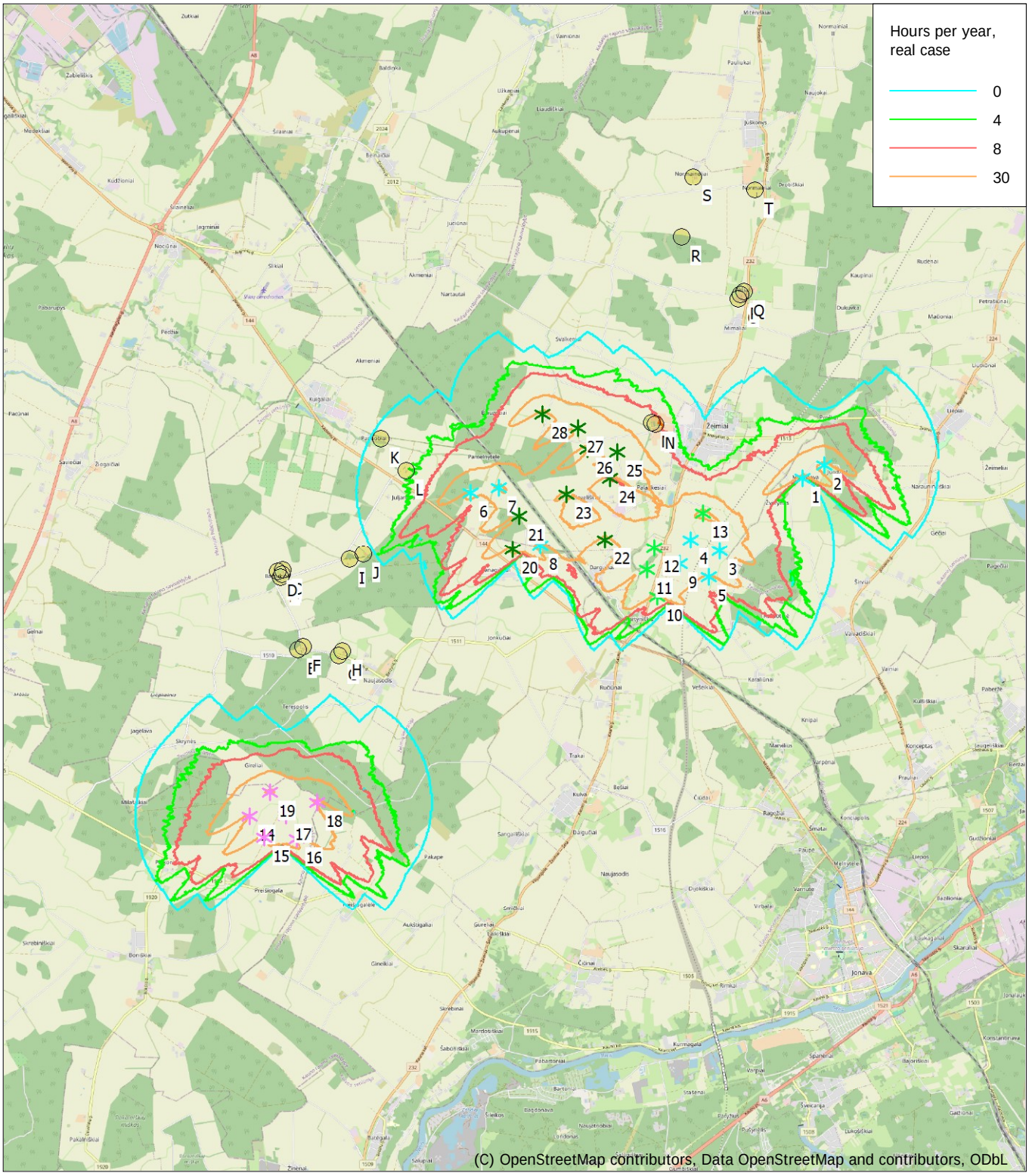
Shadow receptors

M: Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)

N: Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

SHADOW - Map

Calculation: Foninës VE



Map: EMD OpenStreetMap , Print scale 1:125 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 510 420 North: 6 113 159

Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

Project:

10 VE Jonavos r. ðeðëliavimas

Licensed user:
UAB Infraplanas
Inovacijy k. 3, Biruliskiy k.,
LT-54469 Kauno r. sav.

Calculated:
2025-06-03 12:17/4.1.254

SHADOW - Main Result

Calculation: Suminis: Planuojamos+Foninės

Assumptions for shadow calculations

Maximum distance for influence
Calculate only when more than 20 % of sun is covered by the blade
Please look in WTG table

Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

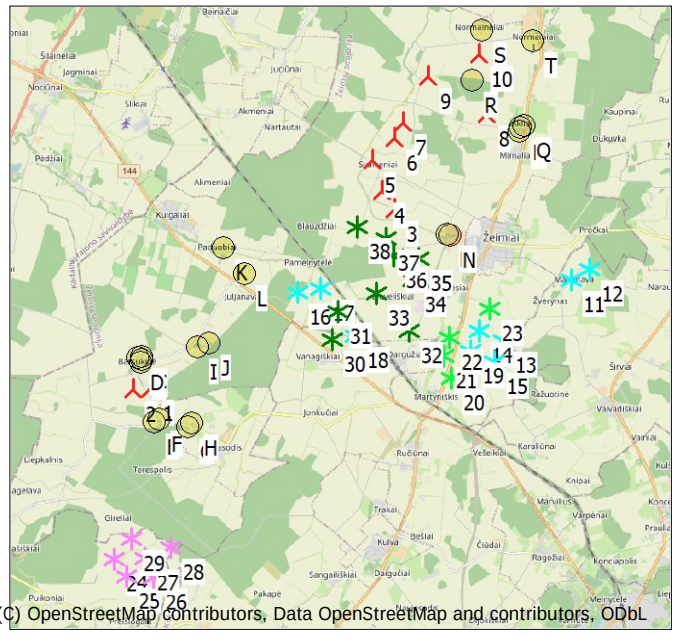
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

Monthly aggregation of real case reduction
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)
Receptor grid resolution: 1,0 m
Topographic shadow included in calculation

All coordinates are in
Lithuanian TM LKS94-LKS94 (LT)



Scale 1:200 000

New WTG | Existing WTG | Shadow receptor

WTGs

	Y	X	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
1	505 066	6 112 165	60,0	.... 8000 200.0 !O! h...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
2	504 615	6 112 148	60,0	.... 8000 200.0 !O! h...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
3	511 539	6 116 908	60,0	.... 8000 200.0 !O! h...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
4	511 222	6 117 399	60,0	.... 8000 200.0 !O! h...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
5	510 959	6 118 219	60,0	.... 8000 200.0 !O! h...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
6	511 530	6 118 807	60,0	.... 8000 200.0 !O! h...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
7	511 785	6 119 202	60,0	.... 8000 200.0 !O! h...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
8	513 980	6 119 458	63,3	.... 8000 200.0 !O! h...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
9	512 435	6 120 424	60,0	.... 8000 200.0 !O! h...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
10	513 775	6 121 028	60,0	.... 8000 200.0 !O! h...	Yes	....	-8 000	8 000	200,0	180,0	2 500	-
11	516 258	6 115 067	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
12	516 724	6 115 361	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
13	514 431	6 113 473	69,2	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
14	513 801	6 113 708	67,7	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
15	514 206	6 112 903	67,5	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
16	508 976	6 114 735	60,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
17	509 582	6 114 845	60,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
18	510 506	6 113 569	66,9	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
19	513 575	6 113 197	64,7	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
20	513 058	6 112 467	63,6	GE WIND ENERGY 5....	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	1 816	-
21	512 838	6 113 059	61,2	GE WIND ENERGY 5....	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	1 816	-
22	512 996	6 113 540	63,8	GE WIND ENERGY 5....	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	1 816	-
23	514 062	6 114 314	70,0	GE WIND ENERGY 5....	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	1 816	-
24	504 125	6 107 635	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
25	504 453	6 107 182	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
26	505 171	6 107 171	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
27	504 923	6 107 664	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
28	505 608	6 107 960	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
29	504 569	6 108 172	70,0	GE WIND ENERGY 6....	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	2 500	-
30	509 897	6 113 484	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
31	510 043	6 114 232	61,7	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
32	511 915	6 113 715	64,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
33	511 063	6 114 701	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
34	512 024	6 115 057	62,7	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
35	512 170	6 115 628	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-

To be continued on next page...

SHADOW - Main Result

Calculation: Suminis: Planuojamos+Foninës

...continued from previous page

	Y	X	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
36	511 515	6 115 700	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
37	511 319	6 116 162	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-
38	510 542	6 116 457	60,0	VESTAS V162 5600 1...	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	2 037	-

Shadow receptor-Input

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
A	Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)	504 817	6 112 855	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
B	Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (2)	504 839	6 112 938	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
C	Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)	504 857	6 113 018	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
D	Gyvenamasis pastatas: Neturi adreso (4)	504 749	6 113 003	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
E	Gyvenamasis pastatas: Neturi adreso (5)	505 193	6 111 302	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
F	Gyvenamasis pastatas: Neturi adreso (6)	505 303	6 111 351	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G	Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)	506 074	6 111 169	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
H	Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)	506 175	6 111 241	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
I	Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)	506 325	6 113 257	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
J	Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (10)	506 632	6 113 377	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
K	Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)	506 986	6 115 906	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
L	Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)	507 555	6 115 201	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
M	Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)	512 944	6 116 258	64,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
N	Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)	513 024	6 116 250	66,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
O	Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)	514 833	6 118 996	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
P	Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)	514 878	6 119 076	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
Q	Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)	514 963	6 119 150	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R	Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)	513 588	6 120 356	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
S	Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)	513 846	6 121 657	60,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
T	Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)	515 192	6 121 383	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

Calculation Results

Shadow receptor

No.	Name	Shadow, expected values Shadow hours per year [h/year]
A	Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)	23:07
B	Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (2)	17:58
C	Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)	14:20
D	Gyvenamasis pastatas: Neturi adreso (4)	14:54
E	Gyvenamasis pastatas: Neturi adreso (5)	0:00
F	Gyvenamasis pastatas: Neturi adreso (6)	0:00
G	Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)	7:13
H	Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)	9:13
I	Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)	3:38
J	Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (10)	2:29
K	Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)	0:43
L	Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)	3:17
M	Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)	26:43
N	Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)	23:34
O	Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)	16:52
P	Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)	22:42
Q	Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)	17:52
R	Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)	15:21
S	Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)	16:46
T	Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)	4:18

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Expected [h/year]
1	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)	17:34
2	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)	29:12
3	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (17)	10:02
4	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (18)	7:28
5	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (19)	0:00

To be continued on next page...

SHADOW - Main Result

Calculation: Suminis: Planuojamos+Foninës

...continued from previous page

No.	Name	Expected [h/year]
6	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (20)	0:00
7	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (21)	1:14
8	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)	44:59
9	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)	9:12
10	.... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (25)	18:38
11	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (1)	0:00
12	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (2)	0:00
13	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (3)	0:00
14	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (4)	0:00
15	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (5)	0:00
16	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (6)	2:54
17	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (7)	1:07
18	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (8)	0:00
19	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (9)	0:00
20	GE WIND ENERGY 5.5-158 Thrust 665 5500 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (10)	0:00
21	GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (11)	0:00
22	GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (12)	0:00
23	GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (13)	0:00
24	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (14)	0:00
25	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (15)	0:00
26	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (16)	0:00
27	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (17)	0:00
28	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (18)	0:00
29	GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (19)	0:00
30	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (20)	0:00
31	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (21)	0:00
32	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (22)	0:00
33	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (23)	0:00
34	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (24)	3:48
35	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (25)	5:52
36	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (26)	2:19
37	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (27)	2:08
38	VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (28)	0:00

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: A - Gyvenamasis pastatas: Barsukinės k. 8, Þeimiø sen., Jonavos r. sav. (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March	April	May	June
1	08:50		10:37 (1)	08:17		10:44 (1)	07:17	06:58	05:46	04:53
	16:05	115	14:02 (2)	16:59	122	14:13 (2)	17:58	20:00	20:58	21:52
2	08:50		10:36 (1)	08:16		10:45 (1)	07:14	06:56	05:44	04:52
	16:06	117	14:02 (2)	17:01	120	14:13 (2)	18:00	20:02	21:00	21:53
3	08:50		10:37 (1)	08:14		10:45 (1)	07:12	06:53	05:41	04:51
	16:07	117	14:03 (2)	17:03	117	14:11 (2)	18:02	20:04	21:02	21:54
4	08:50		10:37 (1)	08:12		10:45 (1)	07:09	06:51	05:39	04:50
	16:09	119	14:04 (2)	17:05	115	14:11 (2)	18:04	20:06	21:04	21:56
5	08:49		10:37 (1)	08:10		10:46 (1)	07:07	06:48	05:37	04:49
	16:10	120	14:05 (2)	17:07	112	14:10 (2)	18:06	20:08	21:06	21:57
6	08:49		10:37 (1)	08:08		10:47 (1)	07:04	06:46	05:35	04:48
	16:11	120	14:05 (2)	17:09	109	14:10 (2)	18:08	20:09	21:08	21:58
7	08:48		10:37 (1)	08:06		10:48 (1)	07:02	06:43	05:33	04:47
	16:13	122	14:06 (2)	17:12	104	14:09 (2)	18:10	20:11	21:10	21:59
8	08:48		10:37 (1)	08:04		10:49 (1)	07:00	06:41	05:31	04:47
	16:14	122	14:06 (2)	17:14	101	14:08 (2)	18:12	20:13	21:12	22:00
9	08:47		10:38 (1)	08:02		10:50 (1)	06:57	06:38	05:29	04:46
	16:16	123	14:07 (2)	17:16	96	14:07 (2)	18:14	20:15	21:14	22:01
10	08:46		10:38 (1)	08:00		10:51 (1)	06:55	06:36	05:27	04:46
	16:17	124	14:08 (2)	17:18	89	14:04 (2)	18:16	20:17	21:16	22:02
11	08:45		10:39 (1)	07:58		10:52 (1)	06:52	06:33	05:25	04:45
	16:19	125	14:09 (2)	17:20	84	14:03 (2)	18:18	20:19	21:17	22:03
12	08:45		10:39 (1)	07:56		10:54 (1)	06:49	06:31	05:23	04:45
	16:20	125	14:09 (2)	17:22	75	14:01 (2)	18:20	20:21	21:19	22:04
13	08:44		10:38 (1)	07:54		10:56 (1)	06:47	06:28	05:21	04:44
	16:22	126	14:09 (2)	17:24	66	13:58 (2)	18:22	20:23	21:21	22:04
14	08:43		10:39 (1)	07:51		10:58 (1)	06:44	06:26	05:19	04:44
	16:24	127	14:10 (2)	17:26	52	13:54 (2)	18:24	20:25	21:23	22:05
15	08:42		10:39 (1)	07:49		11:01 (1)	06:42	06:23	05:18	04:44
	16:26	127	14:10 (2)	17:29	28	11:29 (1)	18:26	20:27	21:25	22:06
16	08:41		10:39 (1)	07:47		11:05 (1)	06:39	06:21	05:16	04:43
	16:27	128	14:11 (2)	17:31	20	11:25 (1)	18:28	20:29	21:27	22:06
17	08:40		10:39 (1)	07:45		11:14 (1)	06:37	06:18	05:14	04:43
	16:29	129	14:11 (2)	17:33	1	11:15 (1)	18:30	20:31	21:28	22:07
18	08:38		10:40 (1)	07:43			06:34	06:16	05:12	04:43
	16:31	129	14:12 (2)	17:35			18:32	20:33	21:30	22:07
19	08:37		10:39 (1)	07:40			06:32	06:13	05:11	04:43
	16:33	128	14:11 (2)	17:37			18:34	20:35	21:32	22:08
20	08:36		10:40 (1)	07:38			06:29	06:11	05:09	04:43
	16:35	129	14:12 (2)	17:39			18:36	20:37	21:34	22:08
21	08:35		10:40 (1)	07:36			06:27	06:09	05:07	04:43
	16:37	129	14:12 (2)	17:41			18:38	20:39	21:35	22:08
22	08:33		10:41 (1)	07:33			06:24	06:06	05:06	04:44
	16:39	129	14:13 (2)	17:43			18:40	20:41	21:37	22:08
23	08:32		10:40 (1)	07:31			06:21	06:04	05:04	04:44
	16:41	130	14:13 (2)	17:45			18:42	20:43	21:39	22:09
24	08:30		10:40 (1)	07:29			06:19	06:02	05:03	04:44
	16:43	130	14:13 (2)	17:47			18:44	20:45	21:40	22:09
25	08:29		10:41 (1)	07:26			06:16	05:59	05:01	04:45
	16:45	130	14:14 (2)	17:50			18:46	20:47	21:42	22:09
26	08:27		10:41 (1)	07:24			06:14	05:57	05:00	04:45
	16:47	128	14:13 (2)	17:52			18:48	20:49	21:43	22:09
27	08:26		10:42 (1)	07:22			06:11	05:55	04:59	04:45
	16:49	127	14:13 (2)	17:54			18:50	20:51	21:45	22:08
28	08:24		10:42 (1)	07:19			06:09	05:52	04:57	04:46
	16:51	127	14:13 (2)	17:56			18:52	20:53	21:46	22:08
29	08:23		10:42 (1)				07:06	05:50	04:56	04:47
	16:53	126	14:13 (2)				19:54	20:55	21:48	22:08
30	08:21		10:42 (1)				07:03	05:48	04:55	04:47
	16:55	126	14:13 (2)				19:56	20:57	21:49	22:08
31	08:19		10:44 (1)				07:01		04:54	
	16:57	122	14:13 (2)				19:58		21:50	
Potential sun hours	243			270			366	423	500	519
Total, worst case		3876			1411					
Sun reduction		0,18			0,25					
Oper. time red.		0,99			0,99					
Wind dir. red.		0,64			0,64					
Total reduction		0,11			0,15					
Total, real		438			217					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninës Shadow receptor: A - Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October			November			December		
1	04:48	05:30	06:28	07:25			07:26		10:20 (1)	08:25		10:21 (1)
	22:07	21:29	20:19	19:02			16:48	91	13:34 (2)	16:01	125	13:51 (2)
2	04:49	05:32	06:30	07:27			07:29		10:20 (1)	08:26		10:21 (1)
	22:07	21:28	20:17	19:00			16:46	97	13:37 (2)	16:00	123	13:50 (2)
3	04:50	05:34	06:32	07:29			07:31		10:19 (1)	08:28		10:21 (1)
	22:07	21:26	20:14	18:57			16:44	101	13:38 (2)	15:59	124	13:51 (2)
4	04:50	05:36	06:34	07:31			07:33		10:18 (1)	08:29		10:22 (1)
	22:06	21:24	20:12	18:55			16:42	105	13:39 (2)	15:59	122	13:51 (2)
5	04:51	05:38	06:36	07:33			07:35		10:17 (1)	08:31		10:22 (1)
	22:05	21:22	20:09	18:52			16:40	108	13:39 (2)	15:58	122	13:51 (2)
6	04:52	05:40	06:38	07:34			07:37		10:17 (1)	08:32		10:23 (1)
	22:05	21:20	20:07	18:50			16:38	111	13:41 (2)	15:57	120	13:51 (2)
7	04:53	05:41	06:40	07:36			07:39		10:16 (1)	08:34		10:25 (1)
	22:04	21:18	20:04	18:47			16:36	115	13:42 (2)	15:57	119	13:52 (2)
8	04:54	05:43	06:41	07:38			07:41		10:15 (1)	08:35		10:25 (1)
	22:03	21:15	20:02	18:45			16:34	117	13:42 (2)	15:56	119	13:52 (2)
9	04:56	05:45	06:43	07:40			07:43		10:15 (1)	08:36		10:25 (1)
	22:02	21:13	19:59	18:42			16:32	120	13:43 (2)	15:56	118	13:52 (2)
10	04:57	05:47	06:45	07:42			07:45		10:15 (1)	08:38		10:26 (1)
	22:01	21:11	19:57	18:40			16:31	122	13:44 (2)	15:55	118	13:53 (2)
11	04:58	05:49	06:47	07:44			07:47		10:15 (1)	08:39		10:27 (1)
	22:01	21:09	19:54	18:37			16:29	122	13:44 (2)	15:55	116	13:53 (2)
12	04:59	05:51	06:49	07:46			07:49		10:14 (1)	08:40		10:27 (1)
	22:00	21:07	19:51	18:35			16:27	125	13:45 (2)	15:55	116	13:53 (2)
13	05:00	05:53	06:51	07:48			07:51		10:14 (1)	08:41		10:27 (1)
	21:58	21:05	19:49	18:32			16:25	126	13:45 (2)	15:55	116	13:53 (2)
14	05:02	05:54	06:53	07:50			07:53		10:15 (1)	08:42		10:28 (1)
	21:57	21:02	19:46	18:30			16:23	127	13:46 (2)	15:55	115	13:53 (2)
15	05:03	05:56	06:55	07:52			07:55		10:15 (1)	08:43		10:29 (1)
	21:56	21:00	19:44	18:27			16:22	127	13:46 (2)	15:55	113	13:53 (2)
16	05:04	05:58	06:56	07:54			07:57		10:14 (1)	08:44		10:29 (1)
	21:55	20:58	19:41	18:25			16:20	128	13:46 (2)	15:55	114	13:54 (2)
17	05:06	06:00	06:58	07:56			07:59		10:14 (1)	08:45		10:30 (1)
	21:54	20:56	19:39	18:23			16:18	130	13:47 (2)	15:55	113	13:54 (2)
18	05:07	06:02	07:00	07:58			08:01		10:14 (1)	08:46		10:31 (1)
	21:52	20:53	19:36	18:20			16:17	130	13:47 (2)	15:55	112	13:55 (2)
19	05:09	06:04	07:02	08:00			08:03		10:15 (1)	08:47		10:32 (1)
	21:51	20:51	19:33	18:18			16:15	130	13:48 (2)	15:55	113	13:56 (2)
20	05:10	06:06	07:04	08:02			08:05		10:16 (1)	08:47		10:31 (1)
	21:50	20:49	19:31	18:15			16:14	129	13:48 (2)	15:56	113	13:55 (2)
21	05:12	06:08	07:06	08:04			08:07		10:16 (1)	08:48		10:32 (1)
	21:48	20:46	19:28	18:13			16:12	129	13:48 (2)	15:56	113	13:56 (2)
22	05:14	06:09	07:08	08:06			08:09		10:16 (1)	08:48		10:32 (1)
	21:47	20:44	19:26	18:11			16:11	129	13:48 (2)	15:56	113	13:56 (2)
23	05:15	06:11	07:10	08:08			08:11		10:16 (1)	08:49		10:33 (1)
	21:45	20:41	19:23	18:08			16:10	129	13:49 (2)	15:57	113	13:57 (2)
24	05:17	06:13	07:11	08:10			08:12		10:17 (1)	08:49		10:33 (1)
	21:44	20:39	19:20	18:06			16:08	129	13:49 (2)	15:58	113	13:57 (2)
25	05:18	06:15	07:13	07:12		10:39 (1)	08:14		10:17 (1)	08:50		10:34 (1)
	21:42	20:37	19:18	17:04	11	10:50 (1)	16:07	129	13:49 (2)	15:58	113	13:58 (2)
26	05:20	06:17	07:15	07:14		10:33 (1)	08:16		10:17 (1)	08:50		10:35 (1)
	21:40	20:34	19:15	17:02	23	10:56 (1)	16:06	128	13:49 (2)	15:59	113	13:59 (2)
27	05:22	06:19	07:17	07:16		10:30 (1)	08:18		10:18 (1)	08:50		10:35 (1)
	21:39	20:32	19:13	16:59	36	13:18 (2)	16:05	127	13:49 (2)	16:00	114	14:00 (2)
28	05:23	06:21	07:19	07:18		10:27 (1)	08:20		10:19 (1)	08:50		10:35 (1)
	21:37	20:29	19:10	16:57	56	13:24 (2)	16:04	126	13:50 (2)	16:01	115	14:00 (2)
29	05:25	06:23	07:21	07:20		10:25 (1)	08:21		10:19 (1)	08:50		10:36 (1)
	21:35	20:27	19:08	16:55	69	13:29 (2)	16:03	126	13:50 (2)	16:01	114	14:01 (2)
30	05:27	06:25	07:23	07:22		10:23 (1)	08:23		10:20 (1)	08:50		10:35 (1)
	21:33	20:24	19:05	16:53	77	13:31 (2)	16:02	125	13:50 (2)	16:02	115	14:00 (2)
31	05:29	06:26		07:24		10:22 (1)				08:50		10:36 (1)
	21:31	20:22		16:51	84	13:33 (2)				16:03	115	14:01 (2)
Potential sun hours	520	464	383	326			253			225		
Total, worst case					356			3638			3602	
Sun reduction					0,31			0,16			0,13	
Oper. time red.					0,99			0,99			0,99	
Wind dir. red.					0,63			0,64			0,64	
Total reduction					0,19			0,10			0,08	
Total, real					68			359			305	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: B - Gyvenamasis pastatas: Barsukinės k. 6, Þeimiø sen., Jonavos r. sav. (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March	April	May	June	July	August	September	October	November			December		
1	08:50		10:49 (1)	08:17		11:04 (1)	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26		10:53 (1)	08:25		10:35 (1)
	16:05	116	14:02 (2)	16:59	95	14:07 (2)	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	9	11:02 (1)	16:01	118	13:49 (2)
2	08:50		10:49 (1)	08:16		11:05 (1)	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:29		10:48 (1)	08:26		10:34 (1)
	16:06	116	14:02 (2)	17:01	90	14:06 (2)	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46	20	11:08 (1)	16:00	119	13:49 (2)
3	08:50		10:50 (1)	08:14		11:05 (1)	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31		10:45 (1)	08:28		10:35 (1)
	16:07	116	14:03 (2)	17:03	86	14:04 (2)	18:02	20:04	21:02	21:54	22:07	21:26	20:14	18:57	16:44	44	13:23 (2)	15:59	118	13:49 (2)
4	08:50		10:50 (1)	08:12		11:07 (1)	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33		10:42 (1)	08:29		10:36 (1)
	16:09	116	14:03 (2)	17:05	79	14:02 (2)	18:04	20:06	21:04	21:56	22:06	21:24	20:12	18:55	16:42	57	13:27 (2)	15:59	118	13:50 (2)
5	08:49		10:51 (1)	08:10		11:08 (1)	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:33	07:35		10:40 (1)	08:31		10:36 (1)
	16:10	116	14:04 (2)	17:07	73	14:01 (2)	18:06	20:08	21:06	21:57	22:05	21:22	20:09	18:52	16:40	66	13:29 (2)	15:58	117	13:49 (2)
6	08:49		10:51 (1)	08:08		11:10 (1)	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37		10:39 (1)	08:32		10:37 (1)
	16:11	116	14:04 (2)	17:09	66	13:59 (2)	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	74	13:32 (2)	15:57	116	13:50 (2)
7	08:48		10:51 (1)	08:06		11:13 (1)	07:02	06:43	05:33	04:47	04:53	05:41	06:40	07:36	07:39		10:37 (1)	08:34		10:38 (1)
	16:13	117	14:04 (2)	17:12	56	13:57 (2)	18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	81	13:33 (2)	15:57	116	13:51 (2)
8	08:48		10:52 (1)	08:04		11:15 (1)	07:00	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41		10:36 (1)	08:35		10:38 (1)
	16:14	118	14:06 (2)	17:14	42	13:53 (2)	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	86	13:35 (2)	15:56	116	13:51 (2)
9	08:47		10:52 (1)	08:02		11:19 (1)	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43		10:35 (1)	08:36		10:38 (1)
	16:16	118	14:06 (2)	17:16	19	11:38 (1)	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	91	13:36 (2)	15:56	116	13:51 (2)
10	08:46		10:52 (1)	08:00		11:26 (1)	06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45		10:35 (1)	08:38		10:39 (1)
	16:17	118	14:06 (2)	17:18	3	11:29 (1)	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	93	13:37 (2)	15:55	116	13:52 (2)
11	08:45		10:53 (1)	07:58			06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47		10:34 (1)	08:39		10:39 (1)
	16:19	118	14:07 (2)	17:20			18:18	20:19	21:17	22:03	22:01	21:09	19:54	18:37	16:29	97	13:38 (2)	15:55	116	13:52 (2)
12	08:45		10:53 (1)	07:56			06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49		10:33 (1)	08:40		10:40 (1)
	16:20	119	14:07 (2)	17:22			18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	101	13:39 (2)	15:55	114	13:52 (2)
13	08:44		10:52 (1)	07:54			06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51		10:32 (1)	08:41		10:40 (1)
	16:22	119	14:07 (2)	17:24			18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	104	13:40 (2)	15:55	114	13:52 (2)
14	08:43		10:53 (1)	07:51			06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53		10:33 (1)	08:42		10:40 (1)
	16:24	119	14:08 (2)	17:26			18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	106	13:41 (2)	15:55	114	13:52 (2)
15	08:42		10:54 (1)	07:49			06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55		10:32 (1)	08:43		10:41 (1)
	16:26	119	14:08 (2)	17:29			18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	108	13:42 (2)	15:55	114	13:53 (2)
16	08:41		10:54 (1)	07:47			06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57		10:32 (1)	08:44		10:42 (1)
	16:27	119	14:09 (2)	17:31			18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	110	13:42 (2)	15:55	112	13:53 (2)
17	08:40		10:54 (1)	07:45			06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59		10:31 (1)	08:45		10:42 (1)
	16:29	118	14:08 (2)	17:33			18:30	20:31	21:28	22:07	21:54	20:56	19:39	18:23	16:18	112	13:43 (2)	15:55	114	13:54 (2)
18	08:38		10:55 (1)	07:43			06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01		10:31 (1)	08:46		10:43 (1)
	16:31	118	14:09 (2)	17:35			18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	114	13:43 (2)	15:55	113	13:54 (2)
19	08:37		10:55 (1)	07:40			06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03		10:32 (1)	08:47		10:44 (1)
	16:33	118	14:09 (2)	17:37			18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	114	13:44 (2)	15:55	112	13:55 (2)
20	08:36		10:56 (1)	07:38			06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05		10:32 (1)	08:47		10:44 (1)
	16:35	117	14:09 (2)	17:39			18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15	16:14	115	13:45 (2)	15:56	112	13:55 (2)
21	08:35		10:56 (1)	07:36			06:27	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07		10:32 (1)	08:48		10:44 (1)
	16:37	116	14:09 (2)	17:41			18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	116	13:45 (2)	15:56	113	13:56 (2)
22	08:33		10:57 (1)	07:33			06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09		10:32 (1)	08:48		10:44 (1)
	16:39	115	14:10 (2)	17:43			18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	117	13:45 (2)	15:56	113	13:56 (2)
23	08:32		10:57 (1)	07:31			06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:11		10:32 (1)	08:49		10:45 (1)
	16:41	114	14:09 (2)	17:45			18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:10	117	13:46 (2)	15:57	113	13:57 (2)
24	08:30		10:57 (1)	07:29			06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12		10:32 (1)	08:49		10:46 (1)
	16:43	114	14:09 (2)	17:47			18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	118	13:46 (2)	15:58	112	13:57 (2)
25	08:29		10:58 (1)	07:26			06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14		10:32 (1)	08:50		10:46 (1)
	16:45	112	14:10 (2)	17:50			18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	118	13:46 (2)	15:58	112	13:57 (2)
26	08:27		10:59 (1)	07:24			06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16		10:32 (1)	08:50		10:47 (1)
	16:47	110	14:09 (2)	17:52			18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:02	16:06	119	13:47 (2)	15:59	114	13:59 (2)
27	08:26		10:59 (1)	07:22			06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18		10:33 (1)	08:50		10:47 (1)
	16:49	109	14:09 (2)	17:54			18:50	20:51	21:45	22:08	21:39	20:32	19:13	16:59	16:05	119	13:47 (2)	16:00	114	13:59 (2)
28	08:24		11:00 (1)	07:19			06:09	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20		10:33 (1)	08:50		10:48 (1)
	16:51	106	14:08 (2)	17:56			18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	119	13:48 (2)	16:01	114	14:00 (2)
29	08:23		11:00 (1)				07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21		10:34 (1)	08:50		10:48 (1)
	16:53	105	14:08 (2)				19:54	20:55	21:48	22:08	21:35	20:27	19:08	16:55	16:03	118	13:48 (2)	16:01	114	14:00 (2)
30	08:21		11:01 (1)				07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23		10:34 (1)	08:50		10:48 (1)
	16:55	101	14:07 (2)				19:56	20:57	21:49	22:08	21:33	20:24	19:05	16:53	16:02	119	13:49 (2)	16:02	114	14:00 (2)
31	08:19		11:03 (1)				07:01		04:54		05:29	06:26		07:24				08:50		10:48 (1)
	16:57	97	14:07 (2)				19:58		21:50		21:31	20:22		16:51				16:03	116	14:01 (2)
Potential sun hours	243			270			366	423	500	519	520	464	383	326	253			225		
Total, worst case		3550			609											2882			3554	
Sun reduction		0,18			0,25											0,16			0,13	
Oper. time red.		0,99			0,99											0,99			0,99	
Wind dir. red.		0,64			0,63											0,64			0,64	
Total reduction		0,11			0,15											0,10			0,08	
Total, real		400			93											284			300	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninës Shadow receptor: C - Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January		February		March	April	May	June	July	August	September	October	November		December		
1	08:50		08:17		07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26		08:25		10:47 (1)
	16:05	110	16:59	55	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48		16:01	109	13:46 (2)
2	08:50		08:16		07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:29		08:26		10:46 (1)
	16:06	111	17:01	44	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46		16:00	110	13:46 (2)
3	08:50		08:14		07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31		08:28		10:47 (1)
	16:07	110	17:03	29	18:02	20:04	21:02	21:54	22:07	21:26	20:14	18:57	16:44		15:59	110	13:46 (2)
4	08:50		08:12		07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33		08:29		10:48 (1)
	16:09	110	17:05	3	18:04	20:06	21:04	21:56	22:06	21:24	20:12	18:55	16:42		15:59	109	13:47 (2)
5	08:49		08:10		07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:33	07:35		08:31		10:47 (1)
	16:10	111	17:07		18:06	20:08	21:06	21:57	22:05	21:22	20:09	18:52	16:40		15:58	110	13:47 (2)
6	08:49		08:08		07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37		08:32		10:48 (1)
	16:11	111	17:09		18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38		15:57	110	13:48 (2)
7	08:48		08:06		07:02	06:43	05:33	04:47	04:53	05:41	06:40	07:36	07:39		08:34		10:49 (1)
	16:13	110	17:12		18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	7	11:12 (1)	111	13:49 (2)
8	08:48		08:04		07:00	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41		10:59 (1)		10:49 (1)
	16:14	109	17:14		18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	32	13:21 (2)	111	13:49 (2)
9	08:47		08:02		06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43		10:56 (1)		10:49 (1)
	16:16	110	17:16		18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	45	13:24 (2)	111	13:49 (2)
10	08:46		08:00		06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45		10:55 (1)		10:50 (1)
	16:17	110	17:18		18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	56	13:28 (2)	110	13:50 (2)
11	08:45		07:58		06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47		10:53 (1)		10:50 (1)
	16:19	109	17:20		18:18	20:19	21:17	22:03	22:01	21:09	19:54	18:37	16:29	62	13:29 (2)	110	13:50 (2)
12	08:45		07:56		06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49		10:51 (1)		10:51 (1)
	16:20	109	17:22		18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	70	13:31 (2)	109	13:50 (2)
13	08:44		07:54		06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51		10:50 (1)		10:51 (1)
	16:22	109	17:24		18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	74	13:32 (2)	109	13:50 (2)
14	08:43		07:51		06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53		10:49 (1)		10:51 (1)
	16:24	107	17:26		18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	80	13:34 (2)	110	13:51 (2)
15	08:42		07:49		06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55		10:48 (1)		10:52 (1)
	16:26	107	17:29		18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	84	13:35 (2)	109	13:51 (2)
16	08:41		07:47		06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57		10:47 (1)		10:52 (1)
	16:27	106	17:31		18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	88	13:36 (2)	109	13:51 (2)
17	08:40		07:45		06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59		10:47 (1)		10:53 (1)
	16:29	106	17:33		18:30	20:31	21:28	22:07	21:54	20:56	19:39	18:23	16:18	90	13:37 (2)	109	13:52 (2)
18	08:38		07:43		06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01		10:46 (1)		10:54 (1)
	16:31	104	17:35		18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	94	13:38 (2)	109	13:53 (2)
19	08:37		07:40		06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03		10:47 (1)		10:54 (1)
	16:33	104	17:37		18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	95	13:39 (2)	109	13:53 (2)
20	08:36		07:38		06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05		10:46 (1)		10:54 (1)
	16:35	101	17:39		18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15	16:14	98	13:40 (2)	108	13:53 (2)
21	08:35		07:36		06:27	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07		10:46 (1)		10:55 (1)
	16:37	101	17:41		18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	101	13:41 (2)	109	13:54 (2)
22	08:33		07:33		06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09		10:46 (1)		10:55 (1)
	16:39	98	17:43		18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	101	13:41 (2)	109	13:54 (2)
23	08:32		07:31		06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:11		10:45 (1)		10:56 (1)
	16:41	95	17:45		18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:10	104	13:42 (2)	108	13:55 (2)
24	08:30		07:29		06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12		10:45 (1)		10:56 (1)
	16:43	94	17:47		18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	104	13:42 (2)	109	13:55 (2)
25	08:29		07:26		06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14		10:45 (1)		10:57 (1)
	16:45	90	17:50		18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	106	13:43 (2)	109	13:56 (2)
26	08:27		07:24		06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16		10:45 (1)		10:58 (1)
	16:47	87	17:52		18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:02	16:06	106	13:43 (2)	109	13:57 (2)
27	08:26		07:22		06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18		10:46 (1)		10:58 (1)
	16:49	84	17:54		18:50	20:51	21:45	22:08	21:39	20:32	19:13	16:59	16:05	107	13:44 (2)	109	13:57 (2)
28	08:24		07:19		06:09	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20		10:46 (1)		10:59 (1)
	16:51	78	17:56		18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	108	13:44 (2)	109	13:58 (2)
29	08:23				07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21		10:46 (1)		10:59 (1)
	16:53	74			19:54	20:55	21:48	22:08	21:35	20:27	19:08	16:55	16:03	109	13:45 (2)	110	13:58 (2)
30	08:21				07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23		10:47 (1)		10:59 (1)
	16:55	69			19:56	20:57	21:49	22:08	21:33	20:24	19:05	16:53	16:02	108	13:45 (2)	109	13:58 (2)
31	08:19				07:01		04:54		05:29	06:26		07:24					10:59 (1)
	16:57	63			19:58		21:50		21:31	20:22		16:51				110	13:59 (2)
Potential sun hours	243		270		366	423	500	519	520	464	383	326	253		225		
Total, worst case		3097		131										2029		3392	
Sun reduction		0,18		0,25										0,16		0,13	
Oper. time red.		0,99		0,99										0,99		0,99	
Wind dir. red.		0,64		0,64										0,64		0,64	
Total reduction		0,11		0,15										0,10		0,08	
Total, real		351		20										201		288	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: D - Gyvenamasis pastatas: Neturi adreso (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March	April	May	June	July	August	September	October	November			December		
1	08:50		10:33 (1)	08:17		10:50 (1)	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26			08:25		10:18 (1)
	16:05	109	13:33 (2)	16:59	62	13:27 (2)	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48			16:01	111	13:19 (2)
2	08:50		10:33 (1)	08:16		10:51 (1)	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:29			08:26		10:18 (1)
	16:06	109	13:33 (2)	17:01	53	13:24 (2)	18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00	16:46			16:00	110	13:19 (2)
3	08:50		10:33 (1)	08:14		10:52 (1)	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31			08:28		10:19 (1)
	16:07	110	13:34 (2)	17:03	33	11:25 (1)	18:02	20:04	21:02	21:54	22:07	21:26	20:14	18:57	16:44			15:59	110	13:19 (2)
4	08:50		10:33 (1)	08:12		10:54 (1)	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33		10:35 (1)	08:29		10:20 (1)
	16:09	110	13:34 (2)	17:05	29	11:23 (1)	18:04	20:06	21:04	21:56	22:06	21:24	20:12	18:55	16:42	8	10:43 (1)	15:59	109	13:20 (2)
5	08:49		10:34 (1)	08:10		10:57 (1)	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:33	07:35		10:29 (1)	08:31		10:19 (1)
	16:10	111	13:35 (2)	17:07	24	11:21 (1)	18:06	20:08	21:06	21:57	22:05	21:22	20:09	18:52	16:40	19	10:48 (1)	15:58	111	13:20 (2)
6	08:49		10:34 (1)	08:08		11:00 (1)	07:05	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37		10:27 (1)	08:32		10:20 (1)
	16:11	111	13:35 (2)	17:09	18	11:18 (1)	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50	16:38	25	10:52 (1)	15:57	111	13:21 (2)
7	08:48		10:34 (1)	08:06		11:07 (1)	07:02	06:43	05:33	04:47	04:53	05:41	06:40	07:36	07:39		10:25 (1)	08:34		10:21 (1)
	16:13	111	13:35 (2)	17:12	4	11:11 (1)	18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47	16:36	29	10:54 (1)	15:57	111	13:22 (2)
8	08:48		10:35 (1)	08:04			07:00	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41		10:23 (1)	08:35		10:21 (1)
	16:14	110	13:36 (2)	17:14			18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	36	12:47 (2)	15:56	111	13:22 (2)
9	08:47		10:36 (1)	08:02			06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43		10:21 (1)	08:36		10:21 (1)
	16:16	110	13:36 (2)	17:16			18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	53	12:54 (2)	15:56	110	13:22 (2)
10	08:46		10:36 (1)	08:00			06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45		10:21 (1)	08:38		10:23 (1)
	16:17	110	13:36 (2)	17:18			18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	62	12:58 (2)	15:55	109	13:23 (2)
11	08:45		10:36 (1)	07:58			06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47		10:20 (1)	08:39		10:23 (1)
	16:19	111	13:37 (2)	17:20			18:18	20:19	21:18	22:03	22:01	21:09	19:54	18:37	16:29	68	13:00 (2)	15:55	110	13:23 (2)
12	08:45		10:37 (1)	07:56			06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49		10:18 (1)	08:40		10:23 (1)
	16:20	109	13:37 (2)	17:22			18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35	16:27	76	13:02 (2)	15:55	110	13:23 (2)
13	08:44		10:36 (1)	07:54			06:47	06:28	05:21	04:44	05:00	05:53	06:51	07:48	07:51		10:18 (1)	08:41		10:24 (1)
	16:22	110	13:36 (2)	17:24			18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	80	13:04 (2)	15:55	108	13:23 (2)
14	08:43		10:37 (1)	07:51			06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53		10:18 (1)	08:42		10:24 (1)
	16:24	109	13:37 (2)	17:26			18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	85	13:06 (2)	15:55	109	13:24 (2)
15	08:42		10:38 (1)	07:49			06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55		10:17 (1)	08:43		10:24 (1)
	16:26	108	13:37 (2)	17:29			18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22	89	13:07 (2)	15:55	109	13:24 (2)
16	08:41		10:38 (1)	07:47			06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57		10:17 (1)	08:44		10:25 (1)
	16:27	108	13:38 (2)	17:31			18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	91	13:08 (2)	15:55	109	13:25 (2)
17	08:40		10:38 (1)	07:45			06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59		10:16 (1)	08:45		10:26 (1)
	16:29	107	13:37 (2)	17:33			18:30	20:31	21:28	22:07	21:54	20:56	19:39	18:23	16:18	95	13:09 (2)	15:55	107	13:25 (2)
18	08:39		10:39 (1)	07:43			06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01		10:16 (1)	08:46		10:26 (1)
	16:31	107	13:38 (2)	17:35			18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	97	13:10 (2)	15:55	109	13:26 (2)
19	08:37		10:39 (1)	07:40			06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03		10:16 (1)	08:47		10:27 (1)
	16:33	105	13:37 (2)	17:37			18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	99	13:11 (2)	15:55	109	13:27 (2)
20	08:36		10:40 (1)	07:38			06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05		10:16 (1)	08:47		10:27 (1)
	16:35	104	13:37 (2)	17:39			18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15	16:14	101	13:12 (2)	15:56	108	13:26 (2)
21	08:35		10:40 (1)	07:36			06:27	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07		10:16 (1)	08:48		10:28 (1)
	16:37	102	13:37 (2)	17:41			18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	102	13:13 (2)	15:56	108	13:27 (2)
22	08:33		10:41 (1)	07:33			06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09		10:16 (1)	08:48		10:28 (1)
	16:39	101	13:37 (2)	17:43			18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	104	13:13 (2)	15:56	108	13:27 (2)
23	08:32		10:41 (1)	07:31			06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:11		10:16 (1)	08:49		10:29 (1)
	16:41	99	13:36 (2)	17:45			18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	16:10	105	13:14 (2)	15:57	108	13:28 (2)
24	08:30		10:42 (1)	07:29			06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12		10:16 (1)	08:49		10:29 (1)
	16:43	97	13:36 (2)	17:47			18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	16:08	107	13:15 (2)	15:58	109	13:29 (2)
25	08:29		10:43 (1)	07:26			06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14		10:16 (1)	08:50		10:29 (1)
	16:45	95	13:36 (2)	17:50			18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	107	13:15 (2)	15:58	109	13:29 (2)
26	08:27		10:44 (1)	07:24			06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16		10:16 (1)	08:50		10:31 (1)
	16:47	91	13:35 (2)	17:52			18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:02	16:06	108	13:16 (2)	15:59	107	13:30 (2)
27	08:26		10:44 (1)	07:22			06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18		10:17 (1)	08:50		10:31 (1)
	16:49	89	13:34 (2)	17:54			18:50	20:51	21:45	22:08	21:39	20:32	19:13	16:59	16:05	108	13:16 (2)	16:00	108	13:30 (2)
28	08:24		10:45 (1)	07:19			06:09	05:52	04:57	04:46	05:23	06:21	07:19	07:18	08:20		10:17 (1)	08:50		10:31 (1)
	16:51	85	13:33 (2)	17:56			18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	109	13:17 (2)	16:01	109	13:31 (2)
29	08:23		10:46 (1)				07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21		10:17 (1)	08:50		10:32 (1)
	16:53	80	13:32 (2)				19:54	20:55	21:48	22:08	21:35	20:27	19:08	16:55	16:03	111	13:18 (2)	16:01	108	13:31 (2)
30	08:21		10:47 (1)				07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23		10:18 (1)	08:50		10:31 (1)
	16:55	74	13:30 (2)				19:56	20:57	21:49	22:08	21:33	20:24	19:05	16:53	16:02	109	13:18 (2)	16:02	110	13:31 (2)
31	08:19		10:49 (1)				07:01		04:54		05:29	06:26		07:24				08:50		10:32 (1)
	16:57	69	13:29 (2)				19:58		21:51		21:31	20:22		16:51				16:03	109	13:32 (2)
Potential sun hours	243			270			366	423	500	519	520	464	383	326	253			225		
Total, worst case		3161			223											2183			3384	
Sun reduction		0,18			0,25											0,16			0,13	
Oper. time red.		0,99			0,99											0,99			0,99	
Wind dir. red.		0,64			0,63											0,64			0,64	
Total reduction		0,11			0,15											0,10			0,08	
Total, real		357			34											216			287	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: E - Gyvenamasis pastatas: Neturi adreso (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:06	21:26	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:24	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:48	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:56	19:38	18:23	16:19	15:55
18	08:38	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:49	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:50
	16:45	17:50	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:52	04:57	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: F - Gyvenamasis pastatas: Neturi adreso (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:25
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:31	08:28
	16:07	17:03	18:02	20:04	21:02	21:54	22:06	21:26	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:24	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35	04:48	04:52	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:48	04:53	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:38
	16:17	17:18	18:16	20:17	21:16	22:02	22:01	21:11	19:57	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29	15:55
12	08:45	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:44	05:00	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:07	21:54	20:56	19:38	18:23	16:18	15:55
18	08:38	07:43	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:49	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07	04:43	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:01	04:45	05:18	06:15	07:13	07:12	08:14	08:50
	16:45	17:50	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:52	04:57	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: G - Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May		June		July		August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46		04:53	20:51 (2)	04:48	20:55 (2)	05:30	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58		21:52 24	21:15 (2)	22:07 29	21:24 (2)	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44		04:52	20:51 (2)	04:49	20:56 (2)	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00		21:53 25	21:16 (2)	22:07 28	21:24 (2)	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41		04:51	20:50 (2)	04:50	20:56 (2)	05:34	06:32	07:29	07:30	08:28
	16:07	17:03	18:02	20:03	21:02		21:54 26	21:16 (2)	22:06 28	21:24 (2)	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39		04:50	20:51 (2)	04:50	20:56 (2)	05:36	06:34	07:30	07:33	08:29
	16:09	17:05	18:04	20:05	21:04		21:55 26	21:17 (2)	22:06 28	21:24 (2)	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37		04:49	20:51 (2)	04:51	20:56 (2)	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06		21:57 27	21:18 (2)	22:05 28	21:24 (2)	21:21	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35		04:48	20:50 (2)	04:52	20:57 (2)	05:40	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08		21:58 28	21:18 (2)	22:05 27	21:24 (2)	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33		04:48	20:51 (2)	04:53	20:57 (2)	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10		21:59 27	21:18 (2)	22:04 27	21:24 (2)	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31		04:47	20:51 (2)	04:54	20:57 (2)	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12		22:00 27	21:18 (2)	22:03 27	21:24 (2)	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29		04:46	20:51 (2)	04:56	20:58 (2)	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14		22:01 28	21:19 (2)	22:02 26	21:24 (2)	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:36	05:27		04:46	20:51 (2)	04:57	20:58 (2)	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15		22:02 28	21:19 (2)	22:01 26	21:24 (2)	21:11	19:56	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25		04:45	20:51 (2)	04:58	20:58 (2)	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17		22:03 28	21:19 (2)	22:00 25	21:23 (2)	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23		04:45	20:52 (2)	04:59	21:00 (2)	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19		22:03 28	21:20 (2)	21:59 23	21:23 (2)	21:07	19:51	18:35	16:27	15:55
13	08:44	07:53	06:47	06:28	05:21		04:44	20:51 (2)	05:00	21:00 (2)	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21		22:04 28	21:19 (2)	21:58 22	21:22 (2)	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19		04:44	20:51 (2)	05:02	21:00 (2)	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23		22:05 29	21:20 (2)	21:57 21	21:21 (2)	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18		04:44	20:52 (2)	05:03	21:01 (2)	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25		22:05 28	21:20 (2)	21:56 19	21:20 (2)	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16		04:44	20:52 (2)	05:04	21:02 (2)	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26		22:06 28	21:20 (2)	21:55 17	21:19 (2)	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14		04:43	20:52 (2)	05:06	21:03 (2)	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28		22:07 29	21:21 (2)	21:54 15	21:18 (2)	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	06:16	05:12		04:43	20:53 (2)	05:07	21:03 (2)	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30		22:07 28	21:21 (2)	21:52 13	21:16 (2)	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11		04:43	20:53 (2)	05:09	21:05 (2)	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32		22:07 28	21:21 (2)	21:51 11	21:16 (2)	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09		04:43	20:53 (2)	05:10	21:06 (2)	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33		22:08 28	21:21 (2)	21:49 8	21:14 (2)	20:48	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07		04:43	20:53 (2)	05:12	21:08 (2)	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35		22:08 28	21:21 (2)	21:48 5	21:13 (2)	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	21:00 (2)	04:44	20:54 (2)	05:14		06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37 2	21:02 (2)	22:08 28	21:22 (2)	21:46		20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	20:57 (2)	04:44	20:54 (2)	05:15		06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38 7	21:04 (2)	22:08 28	21:22 (2)	21:45		20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	20:56 (2)	04:44	20:54 (2)	05:17		06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40 10	21:06 (2)	22:08 28	21:22 (2)	21:43		20:39	19:20	18:06	16:08	15:58
25	08:29	07:26	06:16	05:59	05:01	20:54 (2)	04:45	20:54 (2)	05:18		06:15	07:13	07:12	08:14	08:49
	16:45	17:49	18:46	20:47	21:42 12	21:06 (2)	22:08 29	21:23 (2)	21:42		20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	20:53 (2)	04:45	20:54 (2)	05:20		06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43 15	21:08 (2)	22:08 29	21:23 (2)	21:40		20:34	19:15	17:02	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	20:53 (2)	04:45	20:55 (2)	05:22		06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45 16	21:09 (2)	22:08 28	21:23 (2)	21:38		20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:08	05:52	04:57	20:52 (2)	04:46	20:55 (2)	05:23		06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46 19	21:11 (2)	22:08 28	21:23 (2)	21:37		20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	20:52 (2)	04:47	20:55 (2)	05:25		06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48 20	21:12 (2)	22:08 29	21:24 (2)	21:35		20:27	19:07	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	20:52 (2)	04:47	20:55 (2)	05:27		06:24	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49 21	21:13 (2)	22:08 28	21:23 (2)	21:33		20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54	20:51 (2)			05:29		06:26		07:24		08:50
	16:57		19:58		21:50 23	21:14 (2)			21:31		20:22		16:51		16:03
Potential sun hours	243	270	366	423	500		519		520		464	383	326	253	225
Total, worst case						145		831		453					
Sun reduction						0,52		0,48		0,49					
Oper. time red.						0,99		0,99		0,99					
Wind dir. red.						0,63		0,63		0,63					
Total reduction						0,32		0,30		0,30					
Total, real						47		250		137					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: H - Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May		June		July		August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46		04:53	20:37 (2)	04:48	20:44 (2)	05:30	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58		21:52	27 21:04 (2)	22:07	24 21:08 (2)	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:56	05:44		04:52	20:37 (2)	04:49	20:45 (2)	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00		21:53	27 21:04 (2)	22:07	24 21:09 (2)	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:41		04:51	20:37 (2)	04:50	20:45 (2)	05:34	06:32	07:29	07:30	08:28
	16:07	17:03	18:02	20:03	21:02		21:54	27 21:04 (2)	22:06	24 21:09 (2)	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39		04:50	20:38 (2)	04:50	20:44 (2)	05:36	06:34	07:30	07:33	08:29
	16:09	17:05	18:04	20:05	21:04		21:55	26 21:04 (2)	22:06	25 21:09 (2)	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37		04:49	20:38 (2)	04:51	20:44 (2)	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06		21:57	26 21:04 (2)	22:05	25 21:09 (2)	21:21	20:09	18:52	16:40	15:58
6	08:49	08:08	07:04	06:46	05:35		04:48	20:38 (2)	04:52	20:44 (2)	05:39	06:38	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08		21:58	26 21:04 (2)	22:05	26 21:10 (2)	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33		04:48	20:39 (2)	04:53	20:44 (2)	05:41	06:40	07:36	07:39	08:34
	16:13	17:12	18:10	20:11	21:10		21:59	25 21:04 (2)	22:04	26 21:10 (2)	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31		04:47	20:39 (2)	04:54	20:44 (2)	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12		22:00	25 21:04 (2)	22:03	27 21:11 (2)	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29		04:46	20:40 (2)	04:56	20:44 (2)	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14		22:01	24 21:04 (2)	22:02	27 21:11 (2)	21:13	19:59	18:42	16:32	15:56
10	08:46	08:00	06:54	06:35	05:27		04:46	20:39 (2)	04:57	20:44 (2)	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15		22:02	25 21:04 (2)	22:01	27 21:11 (2)	21:11	19:56	18:40	16:31	15:55
11	08:45	07:58	06:52	06:33	05:25		04:45	20:40 (2)	04:58	20:44 (2)	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17		22:03	24 21:04 (2)	22:00	27 21:11 (2)	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23		04:45	20:41 (2)	04:59	20:45 (2)	05:51	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19		22:03	23 21:04 (2)	21:59	27 21:12 (2)	21:07	19:51	18:35	16:27	15:55
13	08:44	07:53	06:47	06:28	05:21		04:44	20:40 (2)	05:00	20:45 (2)	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21		22:04	24 21:04 (2)	21:58	27 21:12 (2)	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:19	20:44 (2)	04:44	20:41 (2)	05:02	20:45 (2)	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	6 20:50 (2)	22:05	23 21:04 (2)	21:57	27 21:12 (2)	21:02	19:46	18:30	16:23	15:55
15	08:42	07:49	06:42	06:23	05:18	20:41 (2)	04:44	20:41 (2)	05:03	20:45 (2)	05:56	06:54	07:52	07:55	08:43
	16:26	17:28	18:26	20:27	21:25	10 20:51 (2)	22:05	23 21:04 (2)	21:56	27 21:12 (2)	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	20:41 (2)	04:44	20:42 (2)	05:04	20:46 (2)	05:58	06:56	07:54	07:57	08:44
	16:27	17:31	18:28	20:29	21:26	12 20:53 (2)	22:06	22 21:04 (2)	21:55	27 21:13 (2)	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	20:39 (2)	04:43	20:42 (2)	05:06	20:45 (2)	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	15 20:54 (2)	22:07	23 21:05 (2)	21:54	28 21:13 (2)	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	06:16	05:12	20:39 (2)	04:43	20:43 (2)	05:07	20:45 (2)	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	17 20:56 (2)	22:07	22 21:05 (2)	21:52	27 21:12 (2)	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	20:38 (2)	04:43	20:43 (2)	05:09	20:46 (2)	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	19 20:57 (2)	22:07	22 21:05 (2)	21:51	27 21:13 (2)	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	20:37 (2)	04:43	20:43 (2)	05:10	20:46 (2)	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22 20:59 (2)	22:08	22 21:05 (2)	21:49	26 21:12 (2)	20:48	19:31	18:15	16:14	15:56
21	08:35	07:36	06:26	06:09	05:07	20:36 (2)	04:43	20:43 (2)	05:12	20:46 (2)	06:07	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	24 21:00 (2)	22:08	22 21:05 (2)	21:48	26 21:12 (2)	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	20:36 (2)	04:44	20:44 (2)	05:14	20:47 (2)	06:09	07:08	08:06	08:09	08:48
	16:39	17:43	18:40	20:41	21:37	26 21:02 (2)	22:08	22 21:06 (2)	21:46	25 21:12 (2)	20:44	19:26	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	20:37 (2)	04:44	20:44 (2)	05:15	20:47 (2)	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	25 21:02 (2)	22:08	22 21:06 (2)	21:45	23 21:10 (2)	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	20:37 (2)	04:44	20:44 (2)	05:17	20:48 (2)	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	26 21:03 (2)	22:08	22 21:06 (2)	21:43	21 21:09 (2)	20:39	19:20	18:06	16:08	15:58
25	08:29	07:26	06:16	05:59	05:01	20:36 (2)	04:45	20:44 (2)	05:18	20:48 (2)	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:47	21:42	27 21:03 (2)	22:08	23 21:07 (2)	21:42	19 21:07 (2)	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	20:36 (2)	04:45	20:44 (2)	05:20	20:49 (2)	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	27 21:03 (2)	22:08	23 21:07 (2)	21:40	17 21:06 (2)	20:34	19:15	17:02	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	20:36 (2)	04:45	20:45 (2)	05:22	20:50 (2)	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	27 21:03 (2)	22:08	22 21:07 (2)	21:38	14 21:04 (2)	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:08	05:52	04:57	20:36 (2)	04:46	20:44 (2)	05:23	20:51 (2)	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	28 21:04 (2)	22:08	23 21:07 (2)	21:37	12 21:03 (2)	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	20:36 (2)	04:47	20:45 (2)	05:25	20:53 (2)	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:48	28 21:04 (2)	22:08	23 21:08 (2)	21:35	9 21:02 (2)	20:27	19:07	16:55	16:03	16:01
30	08:21		07:03	05:48	04:55	20:37 (2)	04:47	20:44 (2)	05:27	20:55 (2)	06:24	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	27 21:04 (2)	22:08	24 21:08 (2)	21:33	4 20:59 (2)	20:24	19:05	16:53	16:02	16:02
31	08:19		07:01		04:54	20:37 (2)			05:29		06:26		07:24		08:50
	16:57		19:58		21:50	27 21:04 (2)			21:31		20:22		16:51		16:03
Potential sun hours	243	270	366	423	500		519		520		464	383	326	253	225
Total, worst case						393		712		695					
Sun reduction						0,52		0,48		0,49					
Oper. time red.						0,99		0,99		0,99					
Wind dir. red.						0,63		0,63		0,63					
Total reduction						0,32		0,30		0,30					
Total, real						127		215		211					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Project:

10 VE Jonavos r. ðeðëliavimas

Licensed user:

UAB Infraplanas
Inovacijy k. 3, Biruliskiy k.,
LT-54469 Kauno r. sav.

Calculated:

2025-06-03 12:17/4.1.254

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninës Shadow receptor: I - Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January		February		March	April	May	June	July	August	September	October		November		December
1	08:50		08:17	15:48 (1)	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25		07:26	15:22 (1)	08:25
	16:05		16:59 29	16:17 (1)	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02		16:48 44	16:15 (2)	16:01
2	08:50		08:15	15:48 (1)	07:14	06:56	05:43	04:52	04:49	05:32	06:30	07:27		07:28	15:21 (1)	08:26
	16:06		17:01 29	16:17 (1)	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00		16:46 44	16:13 (2)	16:00
3	08:50		08:14	15:49 (1)	07:12	06:53	05:41	04:51	04:49	05:34	06:32	07:29		07:31	15:21 (1)	08:28
	16:07		17:03 28	16:17 (1)	18:02	20:04	21:02	21:54	22:06	21:26	20:14	18:57		16:44 42	16:11 (2)	15:59
4	08:49		08:12	15:49 (1)	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30		07:33	15:20 (1)	08:29
	16:08		17:05 31	16:32 (2)	18:04	20:05	21:04	21:56	22:06	21:24	20:12	18:55		16:42 41	16:09 (2)	15:58
5	08:49		08:10	15:49 (1)	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32		07:35	15:19 (1)	08:31
	16:10		17:07 36	16:35 (2)	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52		16:40 39	16:07 (2)	15:58
6	08:49		08:08	15:50 (1)	07:04	06:46	05:35	04:48	04:52	05:39	06:38	07:34		07:37	15:20 (1)	08:32
	16:11		17:09 38	16:37 (2)	18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50		16:38 35	16:05 (2)	15:57
7	08:48		08:06	15:50 (1)	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36		07:39	15:20 (1)	08:34
	16:13		17:11 42	16:40 (2)	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47		16:36 31	16:03 (2)	15:57
8	08:48		08:04	15:51 (1)	06:59	06:40	05:31	04:47	04:54	05:43	06:41	07:38		07:41	15:19 (1)	08:35
	16:14		17:14 43	16:42 (2)	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45		16:34 29	15:48 (1)	15:56
9	08:47		08:02	15:52 (1)	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40		07:43	15:19 (1)	08:36
	16:16		17:16 45	16:45 (2)	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42		16:32 29	15:48 (1)	15:56
10	08:46		08:00	15:53 (1)	06:54	06:35	05:27	04:45	04:57	05:47	06:45	07:42		07:45	15:20 (1)	08:38
	16:17		17:18 45	16:46 (2)	18:16	20:17	21:16	22:02	22:01	21:11	19:56	18:40		16:30 28	15:48 (1)	15:55
11	08:45		07:58	15:54 (1)	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44		07:47	15:20 (1)	08:39
	16:19		17:20 44	16:47 (2)	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37		16:29 28	15:48 (1)	15:55
12	08:45		07:56	15:56 (1)	06:49	06:30	05:23	04:45	04:59	05:51	06:49	07:46		07:49	15:21 (1)	08:40
	16:20		17:22 39	16:47 (2)	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35		16:27 27	15:48 (1)	15:55
13	08:44		07:54	15:59 (1)	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48		07:51	15:21 (1)	08:41
	16:22		17:24 34	16:47 (2)	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32		16:25 26	15:47 (1)	15:55
14	08:43		07:51	16:24 (2)	06:44	06:26	05:19	04:44	05:02	05:54	06:53	07:50		07:53	15:21 (1)	08:42
	16:24		17:26 22	16:46 (2)	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30		16:23 25	15:46 (1)	15:55
15	08:42		07:49	16:24 (2)	06:42	06:23	05:17	04:44	05:03	05:56	06:54	07:52		07:55	15:23 (1)	08:43
	16:25		17:28 22	16:46 (2)	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27		16:22 24	15:47 (1)	15:55
16	08:41		07:47	16:26 (2)	06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54		07:57	15:24 (1)	08:44
	16:27		17:31 20	16:46 (2)	18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25		16:20 21	15:45 (1)	15:55
17	08:40		07:45	16:26 (2)	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56		07:59	15:25 (1)	08:45
	16:29		17:33 18	16:44 (2)	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22		16:18 18	15:43 (1)	15:55
18	08:38		07:43	16:28 (2)	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58		08:01	15:26 (1)	08:46
	16:31		17:35 15	16:43 (2)	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20		16:17 15	15:41 (1)	15:55
19	08:37		07:40	16:30 (2)	06:32	06:13	05:10	04:43	05:09	06:04	07:02	08:00		08:03	15:27 (1)	08:46
	16:33		17:37 11	16:41 (2)	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18		16:15 12	15:39 (1)	15:55
20	08:36		07:38		06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02		08:05	15:30 (1)	08:47
	16:35		17:39		18:36	20:37	21:33	22:08	21:50	20:49	19:31	18:15		16:14 8	15:38 (1)	15:55
21	08:35	15:58 (1)	07:36		06:26	06:09	05:07	04:43	05:12	06:07	07:06	08:04		08:07	15:34 (1)	08:48
	16:37 2	16:00 (1)	17:41		18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13		16:12 2	15:36 (1)	15:56
22	08:33	15:55 (1)	07:33		06:24	06:06	05:06	04:43	05:13	06:09	07:08	08:06	17:02 (2)	08:09		08:48
	16:38 8	16:03 (1)	17:43		18:40	20:41	21:37	22:08	21:47	20:44	19:26	18:11 6	17:08 (2)	16:11		15:56
23	08:32	15:53 (1)	07:31		06:21	06:04	05:04	04:44	05:15	06:11	07:10	08:08	16:59 (2)	08:10		08:49
	16:40 12	16:05 (1)	17:45		18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08 12	17:11 (2)	16:10		15:57
24	08:30	15:52 (1)	07:29		06:19	06:01	05:03	04:44	05:17	06:13	07:11	08:10	16:57 (2)	08:12		08:49
	16:42 15	16:07 (1)	17:47		18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06 17	17:14 (2)	16:08		15:57
25	08:29	15:52 (1)	07:26		06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	15:56 (2)	08:14		08:50
	16:44 18	16:10 (1)	17:49		18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04 19	16:15 (2)	16:07		15:58
26	08:27	15:51 (1)	07:24		06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	15:55 (2)	08:16		08:50
	16:46 21	16:12 (1)	17:51		18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:01 20	16:15 (2)	16:06		15:59
27	08:26	15:50 (1)	07:22		06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16	15:54 (2)	08:18		08:50
	16:48 24	16:14 (1)	17:54		18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59 22	16:16 (2)	16:05		16:00
28	08:24	15:49 (1)	07:19		06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18	15:33 (1)	08:19		08:50
	16:50 26	16:15 (1)	17:56		18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57 24	16:16 (2)	16:04		16:00
29	08:22	15:49 (1)			07:06	05:50	04:56	04:46	05:25	06:23	07:21	07:20	15:28 (1)	08:21		08:50
	16:53 26	16:15 (1)			19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55 35	16:17 (2)	16:03		16:01
30	08:21	15:49 (1)			07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	15:25 (1)	08:23		08:50
	16:55 27	16:16 (1)			19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53 40	16:16 (2)	16:02		16:02
31	08:19	15:48 (1)			07:01		04:54		05:29	06:26		07:24	15:23 (1)			08:50
	16:57 28	16:16 (1)			19:58		21:50		21:31	20:22		16:50 44	16:16 (2)			16:03
Potential sun hours	243		270		366	423	500	519	520	464	383	326		253		225
Total, worst case	207		591									239		568		
Sun reduction	0,18		0,25									0,31		0,16		
Oper. time red.	0,99		0,99									0,99		0,99		
Wind dir. red.	0,64		0,64									0,64		0,64		
Total reduction	0,11		0,16									0,19		0,10		
Total, real	24		92									47		57		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: J - Gyvenamasis pastatas: Barsukinės k. 1, Þeimiø sen., Jonavos r. sav. (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:30	06:28	07:25	07:26	08:25
	16:05	16:59 20 16:25 (1)	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:48 33 15:37 (1) 16:15 (2)	16:01
2	08:50	08:15 16:05 (1)	07:14	06:56	05:43	04:52	04:49	05:32	06:30	07:27	07:28 15:36 (1)	08:26
	16:06	17:01 22 16:27 (1)	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46 33 16:13 (2)	16:00
3	08:50	08:14 16:05 (1)	07:12	06:53	05:41	04:51	04:49	05:34	06:32	07:29	07:30 15:36 (1)	08:28
	16:07	17:03 23 16:28 (1)	18:02	20:03	21:02	21:54	22:06	21:26	20:14	18:57	16:44 30 16:11 (2)	15:59
4	08:49	08:12 16:05 (1)	07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30	07:33 15:35 (1)	08:29
	16:08	17:05 24 16:29 (1)	18:04	20:05	21:04	21:56	22:06	21:24	20:12	18:55	16:42 28 16:09 (2)	15:58
5	08:49	08:10 16:05 (1)	07:07	06:48	05:37	04:49	04:51	05:38	06:36	07:32	07:35 15:35 (1)	08:31
	16:10	17:07 24 16:29 (1)	18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52	16:40 24 15:59 (1)	15:58
6	08:49	08:08 16:05 (1)	07:04	06:45	05:35	04:48	04:52	05:39	06:38	07:34	07:37 15:35 (1)	08:32
	16:11	17:09 24 16:29 (1)	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:50	16:38 24 15:59 (1)	15:57
7	08:48	08:06 16:06 (1)	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39 15:35 (1)	08:34
	16:13	17:11 28 16:40 (2)	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36 24 15:59 (1)	15:57
8	08:47	08:04 16:06 (1)	06:59	06:40	05:31	04:47	04:54	05:43	06:41	07:38	07:41 15:36 (1)	08:35
	16:14	17:14 31 16:42 (2)	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34 23 15:59 (1)	15:56
9	08:47	08:02 16:07 (1)	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43 15:36 (1)	08:36
	16:15	17:16 33 16:45 (2)	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32 22 15:58 (1)	15:56
10	08:46	08:00 16:07 (1)	06:54	06:35	05:27	04:45	04:57	05:47	06:45	07:42	07:45 15:37 (1)	08:38
	16:17	17:18 34 16:46 (2)	18:16	20:17	21:16	22:02	22:01	21:11	19:56	18:40	16:30 20 15:57 (1)	15:55
11	08:45	07:58 16:08 (1)	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47 15:38 (1)	08:39
	16:19	17:20 36 16:49 (2)	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:29 17 15:55 (1)	15:55
12	08:45	07:56 16:10 (1)	06:49	06:30	05:23	04:45	04:59	05:50	06:49	07:46	07:49 15:38 (1)	08:40
	16:20	17:22 35 16:51 (2)	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27 14 15:52 (1)	15:55
13	08:44	07:54 16:12 (1)	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51 15:39 (1)	08:41
	16:22	17:24 32 16:53 (2)	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32	16:25 11 15:50 (1)	15:55
14	08:43	07:51 16:16 (1)	06:44	06:25	05:19	04:44	05:02	05:54	06:53	07:50	07:53 15:40 (1)	08:42
	16:24	17:26 23 16:52 (2)	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23 8 15:48 (1)	15:55
15	08:42	07:49 16:33 (2)	06:42	06:23	05:17	04:44	05:03	05:56	06:54	07:52	07:55 15:43 (1)	08:43
	16:25	17:28 19 16:52 (2)	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:22 4 15:47 (1)	15:55
16	08:41	07:47 16:34 (2)	06:39	06:21	05:16	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:31 17 16:51 (2)	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:40	07:45 16:34 (2)	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33 16 16:50 (2)	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42 16:36 (2)	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35 13 16:49 (2)	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40 16:39 (2)	06:32	06:13	05:10	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37 8 16:47 (2)	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:50	20:49	19:31	18:15	16:14	15:55
21	08:35	07:36	06:26	06:09	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:43	05:13	06:09	07:08	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:11	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:09	08:08 17:07 (2)	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08 10 17:17 (2)	16:10	15:57
24	08:30	07:29	06:19	06:01	05:03	04:44	05:17	06:13	07:11	08:10 17:06 (2)	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06 13 17:19 (2)	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12 16:04 (2)	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04 16 16:20 (2)	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14 16:03 (2)	08:16	08:50
	16:46	17:51	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:01 18 16:21 (2)	16:06	15:59
27	08:26 16:10 (1)	07:21	06:11	05:55	04:59	04:45	05:22	06:19	07:17	07:16 16:02 (2)	08:18	08:50
	16:48 4 16:14 (1)	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59 19 16:21 (2)	16:05	16:00
28	08:24 16:08 (1)	07:19	06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18 15:44 (1)	08:19	08:50
	16:50 8 16:16 (1)	17:56	18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57 25 16:21 (2)	16:04	16:00
29	08:22 16:07 (1)		07:06	05:50	04:56	04:46	05:25	06:23	07:21	07:20 15:41 (1)	08:21	08:50
	16:53 11 16:18 (1)		19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55 33 16:22 (2)	16:03	16:01
30	08:21 16:06 (1)		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22 15:39 (1)	08:23	08:50
	16:55 15 16:21 (1)		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53 34 16:20 (2)	16:02	16:02
31	08:19 16:06 (1)		07:01		04:54		05:29	06:26		07:24 15:38 (1)		08:50
	16:57 17 16:23 (1)		19:58		21:50		21:31	20:22		16:50 34 16:18 (2)		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Total, worst case	55	462								202	315	
Sun reduction	0,18	0,25								0,31	0,16	
Oper. time red.	0,99	0,99								0,99	0,99	
Wind dir. red.	0,64	0,64								0,64	0,64	
Total reduction	0,11	0,16								0,19	0,10	
Total, real	6	72								39	31	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninës Shadow receptor: K - Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February		March	April	May	June	July	August	September	October		November		December
1	08:50	08:17		07:17	06:58	05:45	04:52	04:48	05:30	06:28	07:25		07:26	07:57 (16)	08:25
	16:05	16:59		17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02		16:48	9 08:06 (16)	16:01
2	08:50	08:16		07:14	06:56	05:43	04:51	04:48	05:32	06:30	07:27		07:28	08:00 (16)	08:26
	16:06	17:01		18:00	20:02	21:00	21:53	22:07	21:28	20:17	19:00		16:46	5 08:05 (16)	16:00
3	08:50	08:14		07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:29		07:31	08:02 (16)	08:28
	16:07	17:03		18:02	20:03	21:02	21:54	22:07	21:26	20:14	18:57		16:44	2 08:04 (16)	15:59
4	08:50	08:12		07:09	06:51	05:39	04:50	04:50	05:36	06:34	07:30		07:33		08:29
	16:08	17:05		18:04	20:05	21:04	21:56	22:06	21:24	20:12	18:55		16:42		15:58
5	08:49	08:10		07:07	06:48	05:37	04:49	04:51	05:37	06:36	07:32		07:35		08:31
	16:10	17:07		18:06	20:07	21:06	21:57	22:05	21:22	20:09	18:52		16:40		15:58
6	08:49	08:08		07:04	06:45	05:35	04:48	04:52	05:39	06:38	07:34		07:37		08:32
	16:11	17:09		18:08	20:09	21:08	21:58	22:05	21:20	20:07	18:50		16:38		15:57
7	08:48	08:06		07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36		07:39		08:34
	16:12	17:11		18:10	20:11	21:10	21:59	22:04	21:18	20:04	18:47		16:36		15:56
8	08:48	08:04		08:32 (16)	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38		07:41		08:35
	16:14	17:13	2	08:34 (16)	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45		16:34		15:56
9	08:47	08:02		08:30 (16)	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40		07:43		08:36
	16:15	17:16	6	08:36 (16)	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42		16:32		15:55
10	08:46	08:00		08:27 (16)	06:54	06:35	05:27	04:45	04:56	05:47	06:45	07:42		07:45		08:38
	16:17	17:18	9	08:36 (16)	18:16	20:17	21:16	22:02	22:02	21:11	19:56	18:40		16:30		15:55
11	08:45	07:58		08:25 (16)	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44		07:47		08:39
	16:18	17:20	12	08:37 (16)	18:18	20:19	21:17	22:03	22:01	21:09	19:54	18:37		16:28		15:55
12	08:45	07:56		08:23 (16)	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46		07:49		08:40
	16:20	17:22	15	08:38 (16)	18:20	20:21	21:19	22:04	22:00	21:07	19:51	18:35		16:27		15:55
13	08:44	07:54		08:21 (16)	06:47	06:28	05:21	04:44	05:00	05:52	06:51	07:48		07:51		08:41
	16:22	17:24	17	08:38 (16)	18:22	20:23	21:21	22:04	21:58	21:05	19:49	18:32		16:25		15:54
14	08:43	07:51		08:21 (16)	06:44	06:25	05:19	04:44	05:01	05:54	06:53	07:50		07:53		08:42
	16:24	17:26	16	08:37 (16)	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30		16:23		15:54
15	08:42	07:49		08:21 (16)	06:42	06:23	05:17	04:43	05:03	05:56	06:54	07:52		07:55		08:43
	16:25	17:28	16	08:37 (16)	18:26	20:27	21:25	22:06	21:56	21:00	19:44	18:27		16:21		15:54
16	08:41	07:47		08:22 (16)	06:39	06:21	05:15	04:43	05:04	05:58	06:56	07:54		07:57		08:44
	16:27	17:30	15	08:37 (16)	18:28	20:29	21:27	22:06	21:55	20:58	19:41	18:25		16:20		15:54
17	08:40	07:45		08:23 (16)	06:37	06:18	05:14	04:43	05:06	06:00	06:58	07:56		07:59		08:45
	16:29	17:33	12	08:35 (16)	18:30	20:31	21:28	22:07	21:54	20:56	19:38	18:22		16:18		15:55
18	08:39	07:43		08:25 (16)	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58		08:01		08:46
	16:31	17:35	9	08:34 (16)	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20		16:17		15:55
19	08:37	07:40			06:32	06:13	05:10	04:43	05:09	06:04	07:02	08:00		08:03		08:47
	16:33	17:37			18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:18		16:15		15:55
20	08:36	07:38			06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02		08:05		08:47
	16:34	17:39			18:36	20:37	21:34	22:08	21:50	20:49	19:31	18:15		16:14		15:55
21	08:35	07:36			06:26	06:08	05:07	04:43	05:12	06:07	07:06	08:04		08:07		08:48
	16:36	17:41			18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13		16:12		15:56
22	08:33	07:33			06:24	06:06	05:06	04:43	05:13	06:09	07:08	08:06		08:09		08:48
	16:38	17:43			18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:11		16:11		15:56
23	08:32	07:31			06:21	06:04	05:04	04:44	05:15	06:11	07:09	08:08	08:57 (16)	08:11		08:49
	16:40	17:45			18:42	20:43	21:39	22:09	21:45	20:41	19:23	18:08	4 09:01 (16)	16:09		15:57
24	08:30	07:29			06:19	06:01	05:03	04:44	05:16	06:13	07:11	08:10	08:55 (16)	08:12		08:49
	16:42	17:47			18:44	20:45	21:40	22:09	21:44	20:39	19:20	18:06	10 09:05 (16)	16:08		15:57
25	08:29	07:26			06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	07:53 (16)	08:14		08:50
	16:44	17:49			18:46	20:47	21:42	22:09	21:42	20:37	19:18	17:04	13 08:06 (16)	16:07		15:58
26	08:27	07:24			06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	07:52 (16)	08:16		08:50
	16:46	17:51			18:48	20:49	21:43	22:09	21:40	20:34	19:15	17:01	15 08:07 (16)	16:06		15:59
27	08:26	07:22			06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:16	07:51 (16)	08:18		08:50
	16:48	17:53			18:50	20:51	21:45	22:09	21:39	20:32	19:13	16:59	16 08:07 (16)	16:05		15:59
28	08:24	07:19			06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:18	07:50 (16)	08:20		08:50
	16:50	17:56			18:52	20:53	21:46	22:08	21:37	20:29	19:10	16:57	17 08:07 (16)	16:04		16:00
29	08:23				07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	07:51 (16)	08:21		08:50
	16:52				19:54	20:55	21:48	22:08	21:35	20:27	19:07	16:55	17 08:08 (16)	16:03		16:01
30	08:21				07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	07:53 (16)	08:23		08:50
	16:54				19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:52	14 08:07 (16)	16:02		16:02
31	08:19				07:01		04:54		05:28	06:26		07:24	07:55 (16)			08:50
	16:57				19:58		21:51		21:31	20:22		16:50	12 08:07 (16)			16:03
Potential sun hours	243	270		366	423	501	519	521	465	383	326		253		225
Total, worst case			129									118		16	
Sun reduction			0,25									0,31		0,16	
Oper. time red.			0,99									0,99		0,99	
Wind dir. red.			0,63									0,63		0,63	
Total reduction			0,15									0,19		0,10	
Total, real			20									23		2	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninës Shadow receptor: L - Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	07:43 (16)	06:58	05:45	04:53	04:48	05:30	06:28	07:25	07:52 (17)	07:26	08:25
	16:05	16:59	17:58	15	07:58 (16)	20:00	20:58	21:52	22:07	21:29	20:19	19:02	32	08:37 (16)	16:48	16:01
2	08:50	08:15	07:14	07:41 (16)	06:56	05:43	04:51	04:48	05:32	06:30	07:27	07:54 (17)	07:28	08:26
	16:06	17:01	18:00	18	07:59 (16)	20:01	21:00	21:53	22:07	21:27	20:17	19:00	30	08:38 (16)	16:46	16:00
3	08:50	08:14	07:12	07:40 (16)	06:53	05:41	04:51	04:49	05:34	06:32	07:28	07:56 (17)	07:30	08:28
	16:07	17:03	18:02	21	08:01 (16)	20:03	21:02	21:54	22:07	21:26	20:14	18:57	27	08:38 (16)	16:44	15:59
4	08:49	08:12	07:09	07:38 (16)	06:50	05:39	04:50	04:50	05:36	06:34	07:30	08:14 (16)	07:33	08:29
	16:08	17:05	18:04	23	08:01 (16)	20:05	21:04	21:56	22:06	21:24	20:12	18:55	25	08:39 (16)	16:42	15:58
5	08:49	08:10	07:07	07:38 (16)	06:48	05:37	04:49	04:51	05:37	06:36	07:32	08:13 (16)	07:35	08:31
	16:10	17:07	18:06	24	08:02 (16)	20:07	21:06	21:57	22:05	21:22	20:09	18:52	25	08:38 (16)	16:40	15:58
6	08:49	08:08	07:04	07:37 (16)	06:45	05:35	04:48	04:52	05:39	06:37	07:34	08:13 (16)	07:37	08:32
	16:11	17:09	18:08	25	08:02 (16)	20:09	21:08	21:58	22:05	21:20	20:07	18:50	25	08:38 (16)	16:38	15:57
7	08:48	08:06	07:02	07:37 (16)	06:43	05:33	04:47	04:53	05:41	06:39	07:36	08:13 (16)	07:39	08:34
	16:12	17:11	18:10	25	08:02 (16)	20:11	21:10	21:59	22:04	21:17	20:04	18:47	25	08:38 (16)	16:36	15:56
8	08:48	08:04	06:59	07:36 (16)	06:40	05:31	04:46	04:54	05:43	06:41	07:38	08:13 (16)	07:41	08:35
	16:14	17:13	18:12	25	08:01 (16)	20:13	21:12	22:00	22:03	21:15	20:02	18:44	24	08:37 (16)	16:34	15:56
9	08:47	08:02	06:57	07:37 (16)	06:38	05:29	04:46	04:55	05:45	06:43	07:40	08:13 (16)	07:43	08:36
	16:15	17:16	18:14	25	08:02 (16)	20:15	21:14	22:01	22:02	21:13	19:59	18:42	23	08:36 (16)	16:32	15:55
10	08:46	08:00	06:54	07:19 (17)	06:35	05:27	04:45	04:56	05:47	06:45	07:42	08:14 (16)	07:45	08:38
	16:17	17:18	18:16	26	08:01 (16)	20:17	21:16	22:02	22:01	21:11	19:56	18:39	21	08:35 (16)	16:30	15:55
11	08:45	07:58	06:52	07:16 (17)	06:33	05:25	04:45	04:58	05:49	06:47	07:44	08:14 (16)	07:47	08:39
	16:18	17:20	18:18	30	07:59 (16)	20:19	21:17	22:03	22:00	21:09	19:54	18:37	20	08:34 (16)	16:28	15:55
12	08:45	07:56	06:49	07:14 (17)	06:30	05:23	04:44	04:59	05:50	06:49	07:46	08:16 (16)	07:49	08:40
	16:20	17:22	18:20	31	07:59 (16)	20:21	21:19	22:04	21:59	21:07	19:51	18:35	16	08:32 (16)	16:27	15:55
13	08:44	07:53	06:47	07:11 (17)	06:28	05:21	04:44	05:00	05:52	06:51	07:48	08:17 (16)	07:51	08:41
	16:22	17:24	18:22	33	07:57 (16)	20:23	21:21	22:04	21:58	21:05	19:49	18:32	13	08:30 (16)	16:25	15:54
14	08:43	07:51	06:44	07:09 (17)	06:25	05:19	04:44	05:01	05:54	06:53	07:50	08:21 (16)	07:53	08:42
	16:24	17:26	18:24	32	07:55 (16)	20:25	21:23	22:05	21:57	21:02	19:46	18:30	4	08:25 (16)	16:23	15:54
15	08:42	07:49	06:42	07:07 (17)	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	28	07:52 (16)	20:27	21:25	22:06	21:56	21:00	19:44	18:27	16:21	15:54
16	08:41	07:47	06:39	07:07 (17)	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	18	07:25 (17)	20:29	21:27	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:40	07:45	06:37	07:07 (17)	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	18	07:25 (17)	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:55
18	08:38	07:42	06:34	07:07 (17)	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	16	07:23 (17)	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	07:08 (17)	06:13	05:10	04:43	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	15	07:23 (17)	20:35	21:32	22:08	21:51	20:51	19:33	18:18	16:15	15:55
20	08:36	07:38	06:29	07:09 (17)	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	11	07:20 (17)	20:37	21:33	22:08	21:50	20:48	19:31	18:15	16:14	15:55
21	08:35	07:36	06:26	07:12 (17)	06:08	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:36	17:41	18:38	6	07:18 (17)	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:06	04:43	05:13	06:09	07:08	07:58 (17)	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	3	08:01 (17)	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:44	05:15	06:11	07:09	07:54 (17)	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:09	21:45	20:41	19:23	10	08:04 (17)	18:08	16:09	15:57
24	08:30	07:29	06:19	06:01	05:03	04:44	05:16	06:13	07:11	07:52 (17)	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	14	08:06 (17)	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:51 (17)	07:12	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:09	21:42	20:37	19:18	16	08:07 (17)	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:49 (17)	07:14	08:16	08:50
	16:46	17:51	18:48	20:49	21:43	22:09	21:40	20:34	19:15	17	08:06 (17)	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:48 (17)	07:16	08:18	08:50
	16:48	17:53	18:50	20:51	21:45	22:08	21:38	20:32	19:13	18	08:06 (17)	16:59	16:05	15:59
28	08:24	07:19	07:46 (16)	06:08	05:52	04:57	04:46	05:23	06:21	07:19	07:48 (17)	07:18	08:20	08:50
	16:50	17:56	9	07:55 (16)	18:52	20:53	21:46	22:08	21:37	20:29	19:10	24	08:31 (16)	16:57	16:04	16:00
29	08:22			07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:48 (17)	07:20	08:21	08:50
	16:52			19:54	20:54	21:48	22:08	21:35	20:27	19:07	31	08:34 (16)	16:55	16:03	16:01
30	08:21			07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:50 (17)	07:22	08:23	08:50
	16:54			19:56	20:56	21:49	22:08	21:33	20:24	19:05	32	08:36 (16)	16:52	16:02	16:02
31	08:19			07:01		04:54		05:28	06:26				07:24			08:50
	16:57			19:58		21:50		21:31	20:22				16:50			16:03
Potential sun hours	243	270		366		423	501	519	520	464	383		326		253	225
Total, worst case			9		465							165		310		
Sun reduction			0,25		0,34							0,40		0,31		
Oper. time red.			0,99		0,99							0,99		0,99		
Wind dir. red.			0,63		0,62							0,62		0,63		
Total reduction			0,15		0,21							0,24		0,19		
Total, real			1		98							40		59		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: M - Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March			April			May			June		
1	08:50		14:58 (34)	08:17		15:55 (35)	07:16		17:01 (36)	06:58		18:55 (37)	05:45			04:52		20:18 (3)
	16:04	21	15:19 (34)	16:58	17	16:12 (35)	17:57	23	17:24 (36)	19:59	18	19:13 (37)	20:58			21:52	45	21:15 (4)
2	08:50		14:57 (34)	08:15		15:53 (35)	07:14		17:00 (36)	06:55		18:56 (37)	05:43			04:51		20:20 (3)
	16:05	22	15:19 (34)	17:00	21	16:14 (35)	17:59	24	17:24 (36)	20:01	16	19:12 (37)	21:00			21:53	44	21:17 (4)
3	08:50		14:58 (34)	08:13		15:52 (35)	07:11		17:00 (36)	06:53		18:58 (37)	05:41			04:50		20:21 (3)
	16:07	23	15:21 (34)	17:02	24	16:16 (35)	18:01	24	17:24 (36)	20:03	11	19:09 (37)	21:02			21:54	42	21:17 (4)
4	08:49		14:58 (34)	08:11		15:51 (35)	07:09		16:59 (36)	06:50			05:39		20:23 (3)	04:49		20:21 (3)
	16:08	23	15:21 (34)	17:05	27	16:18 (35)	18:03	24	17:23 (36)	20:05			21:04	10	20:33 (3)	21:55	42	21:17 (4)
5	08:49		14:59 (34)	08:10		15:50 (35)	07:06		17:00 (36)	06:48			05:36		20:20 (3)	04:48		20:22 (3)
	16:09	23	15:22 (34)	17:07	29	16:19 (35)	18:05	23	17:23 (36)	20:07			21:06	14	20:34 (3)	21:56	40	21:17 (4)
6	08:48		14:58 (34)	08:08		15:49 (35)	07:04		17:00 (36)	06:45			05:34		20:19 (3)	04:48		20:24 (3)
	16:11	24	15:22 (34)	17:09	31	16:20 (35)	18:07	22	17:22 (36)	20:09			21:08	17	20:36 (3)	21:58	39	21:18 (4)
7	08:48		14:58 (34)	08:06		15:48 (35)	07:02		17:00 (36)	06:43			05:32		20:17 (3)	04:47		20:24 (3)
	16:12	25	15:23 (34)	17:11	33	16:21 (35)	18:10	21	17:21 (36)	20:11			21:10	21	20:38 (3)	21:59	37	21:17 (4)
8	08:47		14:58 (34)	08:04		15:47 (35)	06:59		17:02 (36)	06:40			05:30		20:16 (3)	04:46		20:26 (3)
	16:13	25	15:23 (34)	17:13	34	16:21 (35)	18:12	18	17:20 (36)	20:13			21:11	23	20:39 (3)	22:00	34	21:18 (4)
9	08:47		14:59 (34)	08:02		15:47 (35)	06:57		17:03 (36)	06:37			05:28		20:15 (3)	04:45		20:27 (3)
	16:15	25	15:24 (34)	17:15	35	16:22 (35)	18:14	15	17:18 (36)	20:15			21:13	26	20:41 (3)	22:01	32	21:18 (4)
10	08:46		14:59 (34)	08:00		15:46 (35)	06:54		17:06 (36)	06:35			05:26		20:14 (3)	04:45		20:30 (3)
	16:17	25	15:24 (34)	17:17	37	16:23 (35)	18:16	9	17:15 (36)	20:17			21:15	28	20:42 (3)	22:02	27	21:18 (4)
11	08:45		14:59 (34)	07:57		15:46 (35)	06:51			06:32			05:24		20:14 (3)	04:44		20:54 (4)
	16:18	26	15:25 (34)	17:19	37	16:23 (35)	18:18			20:19			21:17	29	20:43 (3)	22:02	24	21:18 (4)
12	08:44		14:59 (34)	07:55		15:46 (35)	06:49			06:30			05:22		20:13 (3)	04:44		20:55 (4)
	16:20	27	15:26 (34)	17:22	38	16:24 (35)	18:20			20:21			21:19	30	20:43 (3)	22:03	23	21:18 (4)
13	08:43		15:00 (34)	07:53		15:46 (35)	06:46			06:28			05:21		20:13 (3)	04:44		20:55 (4)
	16:21	26	15:26 (34)	17:24	37	16:23 (35)	18:22			20:23			21:21	30	20:43 (3)	22:04	24	21:19 (4)
14	08:42		15:00 (34)	07:51		15:46 (35)	06:44			06:25			05:19		20:12 (3)	04:43		20:56 (4)
	16:23	27	15:27 (34)	17:26	38	16:24 (35)	18:24			20:25			21:23	31	20:43 (3)	22:05	23	21:19 (4)
15	08:41		15:01 (34)	07:49		15:46 (35)	06:41			06:23			05:17		20:13 (3)	04:43		20:55 (4)
	16:25	26	15:27 (34)	17:28	38	16:24 (35)	18:26			20:27			21:24	31	20:44 (3)	22:05	23	21:18 (4)
16	08:40		15:01 (34)	07:47		15:46 (35)	06:39			06:20			05:15		20:12 (3)	04:43		20:55 (4)
	16:27	26	15:27 (34)	17:30	37	16:23 (35)	18:28			20:29			21:26	31	20:43 (3)	22:06	24	21:19 (4)
17	08:39		15:02 (34)	07:44		15:46 (35)	06:36			06:18			05:13		20:13 (3)	04:43		20:56 (4)
	16:28	26	15:28 (34)	17:32	37	16:23 (35)	18:30			20:31			21:28	31	20:44 (3)	22:06	23	21:19 (4)
18	08:38		15:02 (34)	07:42		15:47 (35)	06:34			06:15			05:12		20:12 (3)	04:43		20:56 (4)
	16:30	26	15:28 (34)	17:34	36	16:23 (35)	18:32			20:33			21:30	32	20:44 (3)	22:07	23	21:19 (4)
19	08:37		15:02 (34)	07:40		15:47 (35)	06:31			06:13			05:10		20:13 (3)	04:43		20:56 (4)
	16:32	26	15:28 (34)	17:36	35	16:22 (35)	18:34			20:35			21:31	31	20:44 (3)	22:07	23	21:19 (4)
20	08:36		15:04 (34)	07:38		15:48 (35)	06:29			06:10			05:08		20:12 (3)	04:43		20:57 (4)
	16:34	24	15:28 (34)	17:38	34	16:22 (35)	18:36			20:37			21:33	31	20:43 (3)	22:08	23	21:20 (4)
21	08:34		15:04 (34)	07:35		15:48 (35)	06:26		18:02 (37)	06:08			05:07		20:13 (3)	04:43		20:57 (4)
	16:36	24	15:28 (34)	17:41	32	16:20 (35)	18:38	8	18:10 (37)	20:38			21:35	34	21:01 (4)	22:08	23	21:20 (4)
22	08:33		15:04 (34)	07:33		15:50 (35)	06:23		18:00 (37)	06:06			05:05		20:14 (3)	04:43		20:57 (4)
	16:38	23	15:27 (34)	17:43	30	16:20 (35)	18:40	13	18:13 (37)	20:40			21:37	35	21:02 (4)	22:08	23	21:20 (4)
23	08:32		15:06 (34)	07:31		15:52 (35)	06:21		17:57 (37)	06:03			05:04		20:13 (3)	04:43		20:57 (4)
	16:40	21	15:27 (34)	17:45	32	17:16 (36)	18:41	17	18:14 (37)	20:42			21:38	38	21:03 (4)	22:08	23	21:20 (4)
24	08:30		15:07 (34)	07:28		15:53 (35)	06:18		17:57 (37)	06:01			05:02		20:14 (3)	04:43		20:58 (4)
	16:42	20	15:27 (34)	17:47	35	17:18 (36)	18:43	20	18:17 (37)	20:44			21:40	39	21:05 (4)	22:08	23	21:21 (4)
25	08:29		15:08 (34)	07:26		15:55 (35)	06:16		17:55 (37)	05:59			05:01		20:15 (3)	04:44		20:58 (4)
	16:44	17	15:25 (34)	17:49	36	17:21 (36)	18:45	22	18:17 (37)	20:46			21:41	41	21:07 (4)	22:08	23	21:21 (4)
26	08:27		15:10 (34)	07:24		15:58 (35)	06:13		17:54 (37)	05:56			04:59		20:15 (3)	04:44		20:57 (4)
	16:46	15	15:25 (34)	17:51	32	17:22 (36)	18:47	22	18:16 (37)	20:48			21:43	42	21:08 (4)	22:08	24	21:21 (4)
27	08:25		15:12 (34)	07:21		17:02 (36)	06:11		17:54 (37)	05:54			04:58		20:15 (3)	04:45		20:58 (4)
	16:48	11	15:23 (34)	17:53	21	17:23 (36)	18:49	23	18:17 (37)	20:50			21:44	43	21:09 (4)	22:08	23	21:21 (4)
28	08:24		15:16 (34)	07:19		17:01 (36)	06:08		17:53 (37)	05:52			04:57		20:16 (3)	04:45		20:58 (4)
	16:50	4	15:20 (34)	17:55	22	17:23 (36)	18:51	23	18:16 (37)	20:52			21:46	43	21:10 (4)	22:08	23	21:21 (4)
29	08:22						07:05		18:54 (37)	05:50			04:55		20:16 (3)	04:46		20:58 (4)
	16:52						19:53	22	19:16 (37)	20:54			21:47	43	21:11 (4)	22:08	24	21:22 (4)
30	08:20						07:03		18:53 (37)	05:47			04:54		20:17 (3)	04:46		20:59 (4)
	16:54						19:55	22	19:15 (37)	20:56			21:49	45	21:13 (4)	22:07	23	21:22 (4)
31	08:19		15:58 (35)				07:00		18:54 (37)				04:53		20:18 (3)			
	16:56	11	16:09 (35)				19:57	21	19:15 (37)				21:50	44	21:14 (4)			
Potential sun hours	243			270			366			423			501			519		
Total, worst case		642			895			416			45			893			847	
Sun reduction		0,18			0,25			0,34			0,39			0,52			0,48	
Oper. time red.		0,99			0,99			0,99			0,99			0,99			0,99	
Wind dir. red.		0,64			0,64			0,63			0,64			0,63			0,63	
Total reduction		0,11			0,16			0,21			0,25			0,32			0,30	
Total, real		73			139			88			11			288			255	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninës Shadow receptor: M - Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July			August			September			October			November			December		
1	04:47		20:58 (4)	05:30		20:24 (3)	06:28			07:24			07:26		15:16 (35)	08:24		14:41 (34)
	22:07	24	21:22 (4)	21:29	29	20:53 (3)	20:19			19:02			16:48	36	15:52 (35)	16:00	26	15:07 (34)
2	04:48		20:59 (4)	05:32		20:25 (3)	06:30			07:26			07:28		15:16 (35)	08:26		14:42 (34)
	22:07	23	21:22 (4)	21:27	28	20:53 (3)	20:16			18:59			16:46	36	15:52 (35)	15:59	26	15:08 (34)
3	04:49		20:33 (3)	05:33		20:25 (3)	06:31			07:28		17:46 (36)	07:30		15:17 (35)	08:27		14:43 (34)
	22:06	30	21:23 (4)	21:25	27	20:52 (3)	20:14			18:57	5	17:51 (36)	16:44	34	15:51 (35)	15:59	25	15:08 (34)
4	04:50		20:32 (3)	05:35		20:26 (3)	06:33			07:30		17:42 (36)	07:32		15:18 (35)	08:29		14:44 (34)
	22:06	33	21:23 (4)	21:23	25	20:51 (3)	20:11			18:54	13	17:55 (36)	16:42	33	15:51 (35)	15:58	24	15:08 (34)
5	04:51		20:31 (3)	05:37		20:27 (3)	06:35			07:32		17:39 (36)	07:34		15:19 (35)	08:31		14:44 (34)
	22:05	35	21:24 (4)	21:21	22	20:49 (3)	20:09			18:52	17	17:56 (36)	16:40	31	15:50 (35)	15:57	24	15:08 (34)
6	04:52		20:30 (3)	05:39		20:27 (3)	06:37			07:34		17:38 (36)	07:36		15:20 (35)	08:32		14:45 (34)
	22:04	38	21:24 (4)	21:19	20	20:47 (3)	20:06			18:49	19	17:57 (36)	16:38	29	15:49 (35)	15:57	24	15:09 (34)
7	04:53		20:30 (3)	05:41		20:29 (3)	06:39			07:36		17:36 (36)	07:38		15:20 (35)	08:33		14:45 (34)
	22:04	39	21:24 (4)	21:17	16	20:45 (3)	20:04			18:47	22	17:58 (36)	16:36	27	15:47 (35)	15:56	23	15:08 (34)
8	04:54		20:29 (3)	05:43		20:30 (3)	06:41			07:38		17:35 (36)	07:40		15:23 (35)	08:35		14:46 (34)
	22:03	41	21:24 (4)	21:15	13	20:43 (3)	20:01			18:44	23	17:58 (36)	16:34	24	15:47 (35)	15:56	23	15:09 (34)
9	04:55		20:28 (3)	05:44		20:32 (3)	06:43		18:52 (37)	07:40		17:35 (36)	07:43		15:24 (35)	08:36		14:46 (34)
	22:02	43	21:24 (4)	21:13	9	20:41 (3)	19:59	10	19:02 (37)	18:42	24	17:59 (36)	16:32	21	15:45 (35)	15:55	23	15:09 (34)
10	04:56		20:28 (3)	05:46			06:45		18:49 (37)	07:42		17:34 (36)	07:45		15:26 (35)	08:37		14:46 (34)
	22:01	42	21:24 (4)	21:11			19:56	15	19:04 (37)	18:39	24	17:58 (36)	16:30	17	15:43 (35)	15:55	23	15:09 (34)
11	04:57		20:27 (3)	05:48			06:47		18:47 (37)	07:44		17:34 (36)	07:47		15:30 (35)	08:39		14:48 (34)
	22:00	44	21:24 (4)	21:09			19:54	18	19:05 (37)	18:37	24	17:58 (36)	16:28	11	15:41 (35)	15:54	21	15:09 (34)
12	04:58		20:27 (3)	05:50			06:48		18:46 (37)	07:46		17:34 (36)	07:49			08:40		14:48 (34)
	21:59	44	21:23 (4)	21:06			19:51	20	19:06 (37)	18:34	24	17:58 (36)	16:26			15:54	21	15:09 (34)
13	05:00		20:26 (3)	05:52			06:50		18:45 (37)	07:48		17:34 (36)	07:51			08:41		14:49 (34)
	21:58	44	21:22 (4)	21:04			19:48	21	19:06 (37)	18:32	23	17:57 (36)	16:24			15:54	20	15:09 (34)
14	05:01		20:25 (3)	05:54			06:52		18:44 (37)	07:50		17:34 (36)	07:53		14:47 (34)	08:42		14:49 (34)
	21:57	44	21:20 (4)	21:02			19:46	22	19:06 (37)	18:29	22	17:56 (36)	16:23	5	14:52 (34)	15:54	21	15:10 (34)
15	05:02		20:26 (3)	05:56			06:54		18:44 (37)	07:52		16:34 (35)	07:55		14:44 (34)	08:43		14:50 (34)
	21:56	43	21:20 (4)	21:00			19:43	23	19:07 (37)	18:27	27	17:55 (36)	16:21	11	14:55 (34)	15:54	20	15:10 (34)
16	05:04		20:25 (3)	05:58			06:56		18:42 (37)	07:54		16:28 (35)	07:57		14:43 (34)	08:44		14:51 (34)
	21:55	43	21:19 (4)	20:57			19:41	23	19:05 (37)	18:24	35	17:54 (36)	16:19	15	14:58 (34)	15:54	19	15:10 (34)
17	05:05		20:24 (3)	05:59			06:58		18:42 (37)	07:56		16:25 (35)	07:59		14:42 (34)	08:45		14:52 (34)
	21:53	42	21:17 (4)	20:55			19:38	23	19:05 (37)	18:22	37	17:51 (36)	16:18	17	14:59 (34)	15:54	19	15:11 (34)
18	05:07		20:25 (3)	06:01			07:00		18:43 (37)	07:58		16:23 (35)	08:01		14:41 (34)	08:45		14:52 (34)
	21:52	41	21:17 (4)	20:53			19:35	21	19:04 (37)	18:20	35	17:48 (36)	16:16	20	15:01 (34)	15:54	19	15:11 (34)
19	05:08		20:24 (3)	06:03			07:02		18:43 (37)	08:00		16:21 (35)	08:03		14:40 (34)	08:46		14:53 (34)
	21:51	40	21:15 (4)	20:51			19:33	20	19:03 (37)	18:17	28	16:49 (35)	16:15	21	15:01 (34)	15:55	19	15:12 (34)
20	05:10		20:23 (3)	06:05			07:03		18:44 (37)	08:02		16:21 (35)	08:04		14:39 (34)	08:47		14:53 (34)
	21:49	40	21:14 (4)	20:48			19:30	17	19:01 (37)	18:15	30	16:51 (35)	16:13	23	15:02 (34)	15:55	18	15:11 (34)
21	05:11		20:24 (3)	06:07			07:05		18:45 (37)	08:04		16:19 (35)	08:06		14:40 (34)	08:48		14:54 (34)
	21:48	37	21:13 (4)	20:46			19:28	14	18:59 (37)	18:12	33	16:52 (35)	16:12	24	15:04 (34)	15:55	18	15:12 (34)
22	05:13		20:23 (3)	06:09			07:07		18:47 (37)	08:06		16:18 (35)	08:08		14:40 (34)	08:48		14:54 (34)
	21:46	34	21:11 (4)	20:43			19:25	9	18:56 (37)	18:10	34	16:52 (35)	16:10	24	15:04 (34)	15:56	18	15:12 (34)
23	05:14		20:23 (3)	06:11			07:09		18:50 (37)	08:08		16:17 (35)	08:10		14:40 (34)	08:49		14:55 (34)
	21:45	32	21:10 (4)	20:41			19:23	3	18:53 (37)	18:08	36	16:53 (35)	16:09	25	15:05 (34)	15:56	18	15:13 (34)
24	05:16		20:23 (3)	06:13			07:11			08:10		16:16 (35)	08:12		14:40 (34)	08:49		14:55 (34)
	21:43	31	20:54 (3)	20:39			19:20			18:06	37	16:53 (35)	16:08	25	15:05 (34)	15:57	19	15:14 (34)
25	05:18		20:23 (3)	06:14			07:13			07:12		15:16 (35)	08:14		14:40 (34)	08:49		14:55 (34)
	21:42	31	20:54 (3)	20:36			19:17			17:03	37	15:53 (35)	16:07	26	15:06 (34)	15:57	19	15:14 (34)
26	05:19		20:23 (3)	06:16			07:15			07:14		15:16 (35)	08:16		14:40 (34)	08:50		14:55 (34)
	21:40	31	20:54 (3)	20:34			19:15			17:01	38	15:54 (35)	16:05	26	15:06 (34)	15:58	19	15:14 (34)
27	05:21		20:23 (3)	06:18			07:17			07:16		15:16 (35)	08:17		14:40 (34)	08:50		14:56 (34)
	21:38	31	20:54 (3)	20:31			19:12			16:59	38	15:54 (35)	16:04	26	15:06 (34)	15:59	19	15:15 (34)
28	05:23		20:23 (3)	06:20			07:19			07:18		15:15 (35)	08:19		14:40 (34)	08:50		14:56 (34)
	21:36	31	20:54 (3)	20:29			19:10			16:56	38	15:53 (35)	16:03	27	15:07 (34)	16:00	20	15:16 (34)
29	05:25		20:23 (3)	06:22			07:20			07:20		15:15 (35)	08:21		14:41 (34)	08:50		14:56 (34)
	21:35	31	20:54 (3)	20:26			19:07			16:54	38	15:53 (35)	16:02	26	15:07 (34)	16:01	20	15:16 (34)
30	05:26		20:24 (3)	06:24			07:22			07:22		15:15 (35)	08:23		14:40 (34)	08:50		14:57 (34)
	21:33	30	20:54 (3)	20:24			19:04			16:52	38	15:53 (35)	16:01	27	15:07 (34)	16:02	20	15:17 (34)
31	05:28		20:23 (3)	06:26						07:24		15:16 (35)				08:50		14:57 (34)
	21:31	30	20:53 (3)	20:21						16:50	37	15:53 (35)				16:03	21	15:18 (34)
Potential sun hours	521			465			383			326			253			225		
Total, worst case		1122			189			259			836			667			649	
Sun reduction		0,49			0,52			0,40			0,31			0,16			0,14	
Oper. time red.		0,99			0,99			0,99			0,99			0,99			0,99	
Wind dir. red.		0,63			0,63			0,64			0,64			0,64			0,64	
Total reduction		0,30			0,32			0,25			0,19			0,10			0,09	
Total, real		340			61			64			161			67			56	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: N - Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March			April			May			June		
1	08:50		15:12 (34)	08:17			07:16		17:07 (36)	06:58		18:58 (37)	05:45		20:24 (3)	04:52		20:49 (4)
	16:04	13	15:25 (34)	16:58			17:57	21	17:28 (36)	19:59	16	19:14 (37)	20:58	3	20:27 (3)	21:52	23	21:12 (4)
2	08:50		15:11 (34)	08:15			07:14		17:06 (36)	06:55		19:00 (37)	05:43		20:20 (3)	04:51		20:50 (4)
	16:05	14	15:25 (34)	17:00			17:59	22	17:28 (36)	20:01	13	19:13 (37)	21:00	9	20:29 (3)	21:53	23	21:13 (4)
3	08:50		15:12 (34)	08:13			07:11		17:06 (36)	06:53		19:02 (37)	05:41		20:18 (3)	04:50		20:50 (4)
	16:07	15	15:27 (34)	17:02			18:01	23	17:29 (36)	20:03	7	19:09 (37)	21:02	13	20:31 (3)	21:54	23	21:13 (4)
4	08:49		15:11 (34)	08:11		16:10 (35)	07:09		17:05 (36)	06:50			05:39		20:16 (3)	04:49		20:50 (4)
	16:08	17	15:28 (34)	17:05	12	16:22 (35)	18:03	23	17:28 (36)	20:05			21:04	17	20:33 (3)	21:55	23	21:13 (4)
5	08:49		15:11 (34)	08:10		16:08 (35)	07:06		17:05 (36)	06:48			05:36		20:15 (3)	04:48		20:50 (4)
	16:09	18	15:29 (34)	17:07	17	16:25 (35)	18:05	23	17:28 (36)	20:07			21:06	19	20:34 (3)	21:56	23	21:13 (4)
6	08:48		15:11 (34)	08:08		16:06 (35)	07:04		17:05 (36)	06:45			05:34		20:14 (3)	04:48		20:51 (4)
	16:11	19	15:30 (34)	17:09	22	16:28 (35)	18:07	22	17:27 (36)	20:09			21:08	22	20:36 (3)	21:58	23	21:14 (4)
7	08:48		15:11 (34)	08:06		16:05 (35)	07:02		17:05 (36)	06:43			05:32		20:13 (3)	04:47		20:51 (4)
	16:12	20	15:31 (34)	17:11	24	16:29 (35)	18:10	21	17:26 (36)	20:11			21:10	25	20:38 (3)	21:59	22	21:13 (4)
8	08:47		15:11 (34)	08:04		16:03 (35)	06:59		17:06 (36)	06:40			05:30		20:12 (3)	04:46		20:52 (4)
	16:13	21	15:32 (34)	17:13	27	16:30 (35)	18:12	20	17:26 (36)	20:13			21:11	27	20:39 (3)	22:00	22	21:14 (4)
9	08:47		15:11 (34)	08:02		16:02 (35)	06:57		17:07 (36)	06:37			05:28		20:12 (3)	04:45		20:52 (4)
	16:15	21	15:32 (34)	17:15	29	16:31 (35)	18:14	17	17:24 (36)	20:15			21:13	28	20:40 (3)	22:01	21	21:13 (4)
10	08:46		15:11 (34)	08:00		16:01 (35)	06:54		17:09 (36)	06:35			05:26		20:11 (3)	04:45		20:53 (4)
	16:16	22	15:33 (34)	17:17	31	16:32 (35)	18:16	13	17:22 (36)	20:17			21:15	29	20:40 (3)	22:02	21	21:14 (4)
11	08:45		15:11 (34)	07:57		16:01 (35)	06:51		17:12 (36)	06:32			05:24		20:12 (3)	04:44		20:52 (4)
	16:18	23	15:34 (34)	17:19	32	16:33 (35)	18:18	6	17:18 (36)	20:19			21:17	29	20:41 (3)	22:02	21	21:13 (4)
12	08:44		15:11 (34)	07:55		16:01 (35)	06:49			06:30			05:22		20:11 (3)	04:44		20:53 (4)
	16:20	24	15:35 (34)	17:22	33	16:34 (35)	18:20			20:21			21:19	30	20:41 (3)	22:03	20	21:13 (4)
13	08:43		15:11 (34)	07:53		16:00 (35)	06:46			06:28			05:21		20:11 (3)	04:44		20:53 (4)
	16:21	24	15:35 (34)	17:24	34	16:34 (35)	18:22			20:23			21:21	29	20:40 (3)	22:04	21	21:14 (4)
14	08:42		15:12 (34)	07:51		16:00 (35)	06:44			06:25			05:19		20:10 (3)	04:43		20:54 (4)
	16:23	24	15:36 (34)	17:26	35	16:35 (35)	18:24			20:25			21:23	30	20:40 (3)	22:05	20	21:14 (4)
15	08:41		15:12 (34)	07:49		16:00 (35)	06:41			06:23			05:17		20:11 (3)	04:43		20:54 (4)
	16:25	25	15:37 (34)	17:28	35	16:35 (35)	18:26			20:27			21:24	30	20:41 (3)	22:05	19	21:13 (4)
16	08:40		15:12 (34)	07:47		15:59 (35)	06:39			06:20			05:15		20:11 (3)	04:43		20:54 (4)
	16:27	25	15:37 (34)	17:30	36	16:35 (35)	18:28			20:29			21:26	29	20:40 (3)	22:06	20	21:14 (4)
17	08:39		15:12 (34)	07:44		15:59 (35)	06:36			06:18			05:13		20:12 (3)	04:43		20:54 (4)
	16:28	26	15:38 (34)	17:32	36	16:35 (35)	18:30			20:31			21:28	29	20:41 (3)	22:06	20	21:14 (4)
18	08:38		15:13 (34)	07:42		16:00 (35)	06:34			06:15			05:12		20:11 (3)	04:43		20:55 (4)
	16:30	25	15:38 (34)	17:34	35	16:35 (35)	18:32			20:33			21:30	31	20:56 (4)	22:07	19	21:14 (4)
19	08:37		15:13 (34)	07:40		15:59 (35)	06:31			06:13			05:10		20:12 (3)	04:43		20:55 (4)
	16:32	25	15:38 (34)	17:36	35	16:34 (35)	18:34			20:35			21:31	33	20:58 (4)	22:07	19	21:14 (4)
20	08:36		15:14 (34)	07:38		16:00 (35)	06:29			06:10			05:08		20:12 (3)	04:43		20:56 (4)
	16:34	25	15:39 (34)	17:38	34	16:34 (35)	18:36			20:37			21:33	34	20:59 (4)	22:08	19	21:15 (4)
21	08:34		15:14 (34)	07:35		16:00 (35)	06:26		18:05 (37)	06:08			05:07		20:13 (3)	04:43		20:56 (4)
	16:36	25	15:39 (34)	17:41	33	16:33 (35)	18:38	5	18:10 (37)	20:38			21:35	36	21:01 (4)	22:08	19	21:15 (4)
22	08:33		15:14 (34)	07:33		16:01 (35)	06:23		18:03 (37)	06:06			05:05		20:14 (3)	04:43		20:56 (4)
	16:38	24	15:38 (34)	17:43	32	16:33 (35)	18:40	10	18:13 (37)	20:40			21:37	36	21:02 (4)	22:08	19	21:15 (4)
23	08:32		15:15 (34)	07:31		16:02 (35)	06:21		18:00 (37)	06:03			05:04		20:14 (3)	04:43		20:56 (4)
	16:40	24	15:39 (34)	17:45	30	16:32 (35)	18:41	14	18:14 (37)	20:42			21:38	37	21:03 (4)	22:08	19	21:15 (4)
24	08:30		15:15 (34)	07:28		16:03 (35)	06:18		17:59 (37)	06:01			05:02		20:15 (3)	04:43		20:57 (4)
	16:42	23	15:38 (34)	17:47	28	16:31 (35)	18:43	18	18:17 (37)	20:44			21:40	38	21:05 (4)	22:08	19	21:16 (4)
25	08:29		15:16 (34)	07:26		16:04 (35)	06:16		17:58 (37)	05:59			05:01		20:16 (3)	04:44		20:56 (4)
	16:44	22	15:38 (34)	17:49	34	17:21 (36)	18:45	20	18:18 (37)	20:46			21:41	38	21:07 (4)	22:08	20	21:16 (4)
26	08:27		15:18 (34)	07:24		16:05 (35)	06:13		17:57 (37)	05:56			04:59		20:17 (3)	04:44		20:56 (4)
	16:46	20	15:38 (34)	17:51	34	17:22 (36)	18:47	21	18:18 (37)	20:48			21:43	38	21:08 (4)	22:08	20	21:16 (4)
27	08:25		15:19 (34)	07:21		16:08 (35)	06:11		17:57 (37)	05:54			04:58		20:17 (3)	04:45		20:57 (4)
	16:48	18	15:37 (34)	17:53	33	17:25 (36)	18:49	22	18:19 (37)	20:50			21:44	38	21:09 (4)	22:08	19	21:16 (4)
28	08:24		15:20 (34)	07:19		16:11 (35)	06:08		17:56 (37)	05:52			04:57		20:18 (3)	04:45		20:56 (4)
	16:50	16	15:36 (34)	17:55	30	17:27 (36)	18:51	22	18:18 (37)	20:52			21:46	38	21:10 (4)	22:08	20	21:16 (4)
29	08:22		15:22 (34)				07:05		18:57 (37)	05:50			04:55		20:19 (3)	04:46		20:57 (4)
	16:52	13	15:35 (34)				19:53	21	19:18 (37)	20:54			21:47	37	21:11 (4)	22:08	20	21:17 (4)
30	08:20		15:25 (34)				07:03		18:56 (37)	05:47			04:54		20:21 (3)	04:46		20:57 (4)
	16:54	7	15:32 (34)				19:55	21	19:17 (37)	20:56			21:49	35	21:12 (4)	22:07	21	21:18 (4)
31	08:19						07:00		18:57 (37)				04:53		20:23 (3)			
	16:56						19:57	19	19:16 (37)				21:50	31	21:12 (4)			
Potential sun hours	243			270			366			423			501			519		
Total, worst case		618			761			404			36			898			618	
Sun reduction		0,18			0,25			0,34			0,39			0,52			0,48	
Oper. time red.		0,99			0,99			0,99			0,99			0,99			0,99	
Wind dir. red.		0,64			0,64			0,63			0,64			0,63			0,63	
Total reduction		0,11			0,16			0,21			0,25			0,32			0,30	
Total, real		70			118			86			9			290			186	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: N - Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July			August			September			October			November			December		
1	04:47		20:57 (4)	05:30		20:21 (3)	06:28			07:24			07:26		15:31 (35)	08:24		14:53 (34)
	22:07	20	21:17 (4)	21:29	30	20:51 (3)	20:19			19:02			16:48	31	16:02 (35)	16:00	23	15:16 (34)
2	04:48		20:57 (4)	05:32		20:22 (3)	06:30			07:26			07:28		15:32 (35)	08:26		14:54 (34)
	22:07	21	21:18 (4)	21:27	29	20:51 (3)	20:16			18:59			16:46	29	16:01 (35)	15:59	22	15:16 (34)
3	04:49		20:57 (4)	05:33		20:22 (3)	06:31			07:28		17:48 (36)	07:30		15:33 (35)	08:27		14:55 (34)
	22:06	21	21:18 (4)	21:25	28	20:50 (3)	20:14			18:57	11	17:59 (36)	16:44	26	15:59 (35)	15:59	21	15:16 (34)
4	04:50		20:57 (4)	05:35		20:22 (3)	06:33			07:30		17:46 (36)	07:32		15:35 (35)	08:29		14:55 (34)
	22:06	22	21:19 (4)	21:23	28	20:50 (3)	20:11			18:54	15	18:01 (36)	16:42	24	15:59 (35)	15:58	21	15:16 (34)
5	04:51		20:57 (4)	05:37		20:23 (3)	06:35			07:32		17:44 (36)	07:34		15:36 (35)	08:31		14:56 (34)
	22:05	22	21:19 (4)	21:21	26	20:49 (3)	20:09			18:52	18	18:02 (36)	16:40	21	15:57 (35)	15:57	20	15:16 (34)
6	04:52		20:58 (4)	05:39		20:23 (3)	06:37			07:34		17:43 (36)	07:36		15:38 (35)	08:32		14:57 (34)
	22:04	22	21:20 (4)	21:19	24	20:47 (3)	20:06			18:49	20	18:03 (36)	16:38	17	15:55 (35)	15:57	19	15:16 (34)
7	04:53		20:58 (4)	05:41		20:24 (3)	06:39			07:36		17:41 (36)	07:38		15:40 (35)	08:33		14:58 (34)
	22:04	22	21:20 (4)	21:17	21	20:45 (3)	20:04			18:47	22	18:03 (36)	16:36	12	15:52 (35)	15:56	18	15:16 (34)
8	04:54		20:58 (4)	05:43		20:25 (3)	06:41			07:38		17:41 (36)	07:40			08:35		14:59 (34)
	22:03	22	21:20 (4)	21:15	18	20:43 (3)	20:01			18:44	22	18:03 (36)	16:34			15:56	17	15:16 (34)
9	04:55		20:58 (4)	05:44		20:25 (3)	06:43		18:56 (37)	07:40		17:40 (36)	07:43			08:36		15:00 (34)
	22:02	23	21:21 (4)	21:13	16	20:41 (3)	19:59	7	19:03 (37)	18:42	23	18:03 (36)	16:32			15:55	15	15:15 (34)
10	04:56		20:58 (4)	05:46		20:27 (3)	06:45		18:52 (37)	07:42		17:40 (36)	07:45			08:37		15:00 (34)
	22:01	23	21:21 (4)	21:11	12	20:39 (3)	19:56	13	19:05 (37)	18:39	23	18:03 (36)	16:30			15:55	14	15:14 (34)
11	04:57		20:58 (4)	05:48		20:30 (3)	06:47		18:50 (37)	07:44		17:40 (36)	07:47			08:39		15:02 (34)
	22:00	23	21:21 (4)	21:09	7	20:37 (3)	19:54	16	19:06 (37)	18:37	23	18:03 (36)	16:28			15:54	13	15:15 (34)
12	04:58		20:32 (3)	05:50			06:48		18:49 (37)	07:46		17:40 (36)	07:49		14:56 (34)	08:40		15:03 (34)
	21:59	29	21:21 (4)	21:06			19:51	18	19:07 (37)	18:34	22	18:02 (36)	16:26	8	15:04 (34)	15:54	11	15:14 (34)
13	05:00		20:30 (3)	05:52			06:50		18:48 (37)	07:48		17:40 (36)	07:51		14:54 (34)	08:41		15:04 (34)
	21:58	33	21:21 (4)	21:04			19:48	20	19:08 (37)	18:32	21	18:01 (36)	16:24	13	15:07 (34)	15:54	10	15:14 (34)
14	05:01		20:29 (3)	05:54			06:52		18:47 (37)	07:50		16:42 (35)	07:53		14:52 (34)	08:42		15:05 (34)
	21:57	35	21:20 (4)	21:02			19:46	21	19:08 (37)	18:29	32	17:59 (36)	16:23	16	15:08 (34)	15:54	9	15:14 (34)
15	05:02		20:28 (3)	05:56			06:54		18:46 (37)	07:52		16:39 (35)	07:55		14:51 (34)	08:43		15:06 (34)
	21:56	37	21:20 (4)	21:00			19:43	22	19:08 (37)	18:27	33	17:56 (36)	16:21	18	15:09 (34)	15:54	7	15:13 (34)
16	05:04		20:27 (3)	05:58			06:56		18:45 (37)	07:54		16:37 (35)	07:57		14:51 (34)	08:44		15:07 (34)
	21:55	39	21:19 (4)	20:57			19:41	22	19:07 (37)	18:24	34	17:54 (36)	16:19	20	15:11 (34)	15:54	6	15:13 (34)
17	05:05		20:26 (3)	05:59			06:58		18:45 (37)	07:56		16:35 (35)	07:59		14:50 (34)	08:45		15:08 (34)
	21:53	38	21:17 (4)	20:55			19:38	22	19:07 (37)	18:22	31	17:51 (36)	16:18	22	15:12 (34)	15:54	6	15:14 (34)
18	05:07		20:26 (3)	06:01			07:00		18:45 (37)	07:58		16:33 (35)	08:01		14:49 (34)	08:45		15:09 (34)
	21:52	39	21:17 (4)	20:53			19:35	21	19:06 (37)	18:20	29	17:02 (35)	16:16	23	15:12 (34)	15:54	5	15:14 (34)
19	05:08		20:25 (3)	06:03			07:02		18:46 (37)	08:00		16:32 (35)	08:03		14:49 (34)	08:46		15:10 (34)
	21:51	38	21:15 (4)	20:51			19:33	18	19:04 (37)	18:17	31	17:03 (35)	16:15	24	15:13 (34)	15:55	4	15:14 (34)
20	05:10		20:24 (3)	06:05			07:03		18:46 (37)	08:02		16:32 (35)	08:04		14:49 (34)	08:47		15:10 (34)
	21:49	38	21:14 (4)	20:48			19:30	15	19:01 (37)	18:15	32	17:04 (35)	16:13	24	15:13 (34)	15:55	4	15:14 (34)
21	05:11		20:24 (3)	06:07			07:05		18:48 (37)	08:04		16:31 (35)	08:06		14:50 (34)	08:47		15:12 (34)
	21:48	37	21:13 (4)	20:46			19:28	11	18:59 (37)	18:12	34	17:05 (35)	16:12	25	15:15 (34)	15:55	3	15:15 (34)
22	05:13		20:23 (3)	06:09			07:07		18:50 (37)	08:06		16:30 (35)	08:08		14:50 (34)	08:48		15:12 (34)
	21:46	36	21:11 (4)	20:43			19:25	6	18:56 (37)	18:10	35	17:05 (35)	16:10	25	15:15 (34)	15:56	3	15:15 (34)
23	05:14		20:23 (3)	06:11			07:09			08:08		16:29 (35)	08:10		14:50 (34)	08:49		15:12 (34)
	21:45	35	21:10 (4)	20:41			19:23			18:08	36	17:05 (35)	16:09	25	15:15 (34)	15:56	4	15:16 (34)
24	05:16		20:22 (3)	06:13			07:11			08:10		16:29 (35)	08:12		14:50 (34)	08:49		15:12 (34)
	21:43	33	21:08 (4)	20:39			19:20			18:06	36	17:05 (35)	16:08	25	15:15 (34)	15:57	4	15:16 (34)
25	05:18		20:22 (3)	06:14			07:13			07:12		15:29 (35)	08:14		14:50 (34)	08:49		15:12 (34)
	21:42	32	21:07 (4)	20:36			19:17			17:03	35	16:04 (35)	16:07	26	15:16 (34)	15:57	5	15:17 (34)
26	05:19		20:22 (3)	06:16			07:15			07:14		15:29 (35)	08:16		14:51 (34)	08:50		15:12 (34)
	21:40	28	20:50 (3)	20:34			19:15			17:01	36	16:05 (35)	16:05	25	15:16 (34)	15:58	5	15:17 (34)
27	05:21		20:22 (3)	06:18			07:17			07:16		15:29 (35)	08:17		14:51 (34)	08:50		15:12 (34)
	21:38	29	20:51 (3)	20:31			19:12			16:59	36	16:05 (35)	16:04	25	15:16 (34)	15:59	6	15:18 (34)
28	05:23		20:21 (3)	06:20			07:19			07:18		15:29 (35)	08:19		14:52 (34)	08:50		15:12 (34)
	21:36	30	20:51 (3)	20:29			19:10			16:56	35	16:04 (35)	16:03	24	15:16 (34)	16:00	7	15:19 (34)
29	05:25		20:21 (3)	06:22			07:20			07:20		15:29 (35)	08:21		14:52 (34)	08:50		15:12 (34)
	21:35	30	20:51 (3)	20:26			19:07			16:54	34	16:03 (35)	16:02	24	15:16 (34)	16:01	8	15:20 (34)
30	05:26		20:22 (3)	06:24			07:22			07:22		15:29 (35)	08:23		14:52 (34)	08:50		15:12 (34)
	21:33	29	20:51 (3)	20:24			19:04			16:52	34	16:03 (35)	16:01	24	15:16 (34)	16:02	9	15:21 (34)
31	05:28		20:21 (3)	06:26						07:24		15:31 (35)				08:50		15:12 (34)
	21:31	30	20:51 (3)	20:21						16:50	32	16:03 (35)				16:03	11	15:23 (34)
Potential sun hours	521			465			383			326			253			225		
Total, worst case		916			239			232			825			576			330	
Sun reduction		0,49			0,52			0,40			0,31			0,16			0,14	
Oper. time red.		0,99			0,99			0,99			0,99			0,99			0,99	
Wind dir. red.		0,63			0,63			0,64			0,64			0,64			0,64	
Total reduction		0,30			0,32			0,25			0,19			0,10			0,08	
Total, real		278			77			58			159			57			28	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: O - Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May		June		July		August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45		04:52	20:10 (8)	04:47	20:15 (8)	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58		21:52 47	20:57 (8)	22:07 50	21:05 (8)	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43		04:51	20:10 (8)	04:48	20:15 (8)	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00		21:53 47	20:57 (8)	22:07 50	21:05 (8)	21:27	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41		04:50	20:11 (8)	04:49	20:16 (8)	05:33	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02		21:54 47	20:58 (8)	22:06 49	21:05 (8)	21:25	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38		04:49	20:10 (8)	04:49	20:16 (8)	05:35	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04		21:55 48	20:58 (8)	22:06 50	21:06 (8)	21:23	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36		04:48	20:10 (8)	04:50	20:16 (8)	05:37	06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06		21:56 48	20:58 (8)	22:05 49	21:05 (8)	21:21	20:09	18:52	16:39	15:57
6	08:48	08:08	07:04	06:45	05:34		04:47	20:10 (8)	04:51	20:16 (8)	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08		21:58 48	20:58 (8)	22:04 49	21:05 (8)	21:19	20:06	18:49	16:37	15:56
7	08:48	08:06	07:01	06:42	05:32		04:46	20:10 (8)	04:52	20:16 (8)	05:40	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:10		21:59 49	20:59 (8)	22:04 49	21:05 (8)	21:17	20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30		04:46	20:10 (8)	04:53	20:17 (8)	05:42	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11		22:00 49	20:59 (8)	22:03 48	21:05 (8)	21:15	20:01	18:44	16:33	15:55
9	08:47	08:02	06:56	06:37	05:28		04:45	20:10 (8)	04:55	20:17 (8)	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13		22:01 50	21:00 (8)	22:02 48	21:05 (8)	21:13	19:59	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26		04:45	20:10 (8)	04:56	20:17 (8)	05:46	06:44	07:42	07:45	08:37
	16:16	17:17	18:15	20:17	21:15		22:02 50	21:00 (8)	22:01 48	21:05 (8)	21:11	19:56	18:39	16:30	15:54
11	08:45	07:57	06:51	06:32	05:24		04:44	20:10 (8)	04:57	20:18 (8)	05:48	06:46	07:44	07:47	08:39
	16:18	17:19	18:17	20:19	21:17		22:02 50	21:00 (8)	22:00 47	21:05 (8)	21:09	19:53	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22		04:44	20:11 (8)	04:58	20:19 (8)	05:50	06:48	07:46	07:49	08:40
	16:19	17:21	18:19	20:21	21:19		22:03 50	21:01 (8)	21:59 46	21:05 (8)	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20		04:43	20:11 (8)	04:59	20:19 (8)	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:21	20:23	21:21		22:04 50	21:01 (8)	21:58 46	21:05 (8)	21:04	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	20:27 (8)	04:43	20:11 (8)	05:01	20:19 (8)	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23 10	20:37 (8)	22:05 50	21:01 (8)	21:57 45	21:04 (8)	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	20:24 (8)	04:43	20:11 (8)	05:02	20:19 (8)	05:55	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24 17	20:41 (8)	22:05 50	21:01 (8)	21:56 45	21:04 (8)	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	20:21 (8)	04:42	20:11 (8)	05:04	20:21 (8)	05:57	06:56	07:53	07:57	08:44
	16:26	17:30	18:28	20:29	21:26 22	20:43 (8)	22:06 51	21:02 (8)	21:55 43	21:04 (8)	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	20:19 (8)	04:42	20:11 (8)	05:05	20:21 (8)	05:59	06:58	07:55	07:59	08:45
	16:28	17:32	18:29	20:31	21:28 26	20:45 (8)	22:06 51	21:02 (8)	21:53 43	21:04 (8)	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	20:18 (8)	04:42	20:12 (8)	05:06	20:21 (8)	06:01	07:00	07:57	08:01	08:45
	16:30	17:34	18:31	20:33	21:30 29	20:47 (8)	22:07 50	21:02 (8)	21:52 42	21:03 (8)	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	20:16 (8)	04:42	20:12 (8)	05:08	20:22 (8)	06:03	07:01	07:59	08:03	08:46
	16:32	17:36	18:33	20:35	21:32 32	20:48 (8)	22:07 50	21:02 (8)	21:51 41	21:03 (8)	20:50	19:33	18:17	16:14	15:54
20	08:36	07:38	06:28	06:10	05:08	20:16 (8)	04:42	20:12 (8)	05:09	20:23 (8)	06:05	07:03	08:02	08:04	08:47
	16:34	17:38	18:35	20:36	21:33 33	20:49 (8)	22:08 50	21:02 (8)	21:49 39	21:02 (8)	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:06	20:15 (8)	04:42	20:12 (8)	05:11	20:24 (8)	06:07	07:05	08:04	08:06	08:48
	16:36	17:40	18:37	20:38	21:35 36	20:51 (8)	22:08 50	21:02 (8)	21:48 38	21:02 (8)	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	20:14 (8)	04:43	20:13 (8)	05:13	20:24 (8)	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:37 37	20:51 (8)	22:08 50	21:03 (8)	21:46 37	21:01 (8)	20:43	19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	05:03	20:13 (8)	04:43	20:13 (8)	05:14	20:26 (8)	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42	21:38 39	20:52 (8)	22:08 50	21:03 (8)	21:45 34	21:00 (8)	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	20:13 (8)	04:43	20:13 (8)	05:16	20:27 (8)	06:12	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40 40	20:53 (8)	22:08 50	21:03 (8)	21:43 32	20:59 (8)	20:39	19:20	18:05	16:08	15:57
25	08:29	07:26	06:16	05:58	05:00	20:12 (8)	04:43	20:14 (8)	05:17	20:28 (8)	06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41 41	20:53 (8)	22:08 50	21:04 (8)	21:42 30	20:58 (8)	20:36	19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	04:59	20:12 (8)	04:44	20:13 (8)	05:19	20:29 (8)	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43 42	20:54 (8)	22:08 51	21:04 (8)	21:40 27	20:56 (8)	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	04:58	20:11 (8)	04:44	20:14 (8)	05:21	20:31 (8)	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44 44	20:55 (8)	22:08 50	21:04 (8)	21:38 24	20:55 (8)	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:56	20:11 (8)	04:45	20:14 (8)	05:23	20:33 (8)	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46 44	20:55 (8)	22:08 50	21:04 (8)	21:36 20	20:53 (8)	20:29	19:09	16:56	16:03	16:00
29	08:22		07:05	05:49	04:55	20:11 (8)	04:46	20:14 (8)	05:24	20:36 (8)	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47 45	20:56 (8)	22:08 51	21:05 (8)	21:35 14	20:50 (8)	20:26	19:07	16:54	16:02	16:00
30	08:20		07:03	05:47	04:54	20:11 (8)	04:46	20:14 (8)	05:26	20:41 (8)	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49 45	20:56 (8)	22:08 50	21:04 (8)	21:33 3	20:44 (8)	20:24	19:04	16:52	16:01	16:01
31	08:19		07:00		04:53	20:10 (8)			05:28		06:26		07:24		08:50
	16:56		19:57		21:50 47	20:57 (8)			21:31		20:21		16:50		16:02
Potential sun hours	243	269	366	423	501		519		521		465	383	326	253	225
Total, worst case						629		1487		1186					
Sun reduction						0,52		0,48		0,49					
Oper. time red.						0,99		0,99		0,99					
Wind dir. red.						0,63		0,63		0,63					
Total reduction						0,32		0,30		0,30					
Total, real						203		449		360					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: P - Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	19:50 (8)	19:57 (8)	20:04 (8)	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52 49	20:39 (8)	20:45 (8)	20:44 (8)	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	19:50 (8)	19:57 (8)	20:04 (8)	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53 49	20:39 (8)	20:45 (8)	20:43 (8)	20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41 20:08 (8)	04:50	19:51 (8)	19:58 (8)	20:05 (8)	06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02 11	20:19 (8) 21:54 49	20:40 (8)	20:46 (8)	20:42 (8)	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	20:04 (8) 04:49	19:51 (8)	19:58 (8)	20:06 (8)	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04 19	20:23 (8) 21:55 49	20:40 (8)	20:46 (8)	20:41 (8)	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	20:02 (8) 04:48	19:51 (8)	19:57 (8)	20:07 (8)	06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06 24	20:26 (8) 21:56 49	20:40 (8)	20:45 (8)	20:39 (8)	20:09	18:52	16:39	15:57
6	08:48	08:08	07:04	06:45	05:34	20:00 (8) 04:47	19:51 (8)	19:57 (8)	20:08 (8)	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08 28	20:28 (8) 21:58 49	20:40 (8)	20:46 (8)	20:38 (8)	20:06	18:49	16:37	15:56
7	08:48	08:06	07:01	06:42	05:32	19:59 (8) 04:46	19:52 (8)	19:57 (8)	20:10 (8)	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:10 30	20:29 (8) 21:59 48	20:40 (8)	20:46 (8)	20:37 (8)	20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30	19:57 (8) 04:46	19:52 (8)	19:57 (8)	20:13 (8)	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11 33	20:30 (8) 22:00 48	20:40 (8)	20:46 (8)	20:35 (8)	20:01	18:44	16:33	15:55
9	08:47	08:02	06:56	06:37	05:28	19:56 (8) 04:45	19:52 (8)	19:57 (8)	20:15 (8)	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13 35	20:31 (8) 22:01 48	20:40 (8)	20:47 (8)	20:31 (8)	19:59	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	19:54 (8) 04:45	19:52 (8)	19:57 (8)	20:20 (8)	06:44	07:42	07:45	08:37
	16:16	17:17	18:15	20:17	21:15 38	20:32 (8) 22:02 48	20:40 (8)	20:47 (8)	20:26 (8)	19:56	18:39	16:30	15:54
11	08:45	07:57	06:51	06:32	05:24	19:53 (8) 04:44	19:53 (8)	19:58 (8)	06:46	07:44	07:47	08:39
	16:18	17:19	18:17	20:19	21:17 40	20:33 (8) 22:02 47	20:40 (8)	20:48 (8)	19:53	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	19:53 (8) 04:44	19:53 (8)	19:58 (8)	06:48	07:46	07:49	08:40
	16:19	17:21	18:19	20:21	21:19 41	20:34 (8) 22:03 48	20:41 (8)	20:48 (8)	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	19:52 (8) 04:43	19:54 (8)	19:58 (8)	06:50	07:48	07:51	08:41
	16:21	17:24	18:21	20:23	21:21 43	20:35 (8) 22:04 47	20:41 (8)	20:48 (8)	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	19:51 (8) 04:43	19:54 (8)	19:58 (8)	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23 44	20:35 (8) 22:05 47	20:41 (8)	20:48 (8)	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	19:51 (8) 04:43	19:54 (8)	19:58 (8)	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24 45	20:36 (8) 22:05 47	20:41 (8)	20:48 (8)	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	19:50 (8) 04:42	19:54 (8)	19:59 (8)	06:56	07:53	07:57	08:44
	16:26	17:30	18:27	20:29	21:26 46	20:36 (8) 22:06 47	20:41 (8)	20:48 (8)	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	19:50 (8) 04:42	19:55 (8)	19:58 (8)	06:58	07:55	07:59	08:45
	16:28	17:32	18:29	20:31	21:28 46	20:36 (8) 22:06 46	20:41 (8)	20:48 (8)	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	19:50 (8) 04:42	19:55 (8)	19:58 (8)	07:00	07:57	08:01	08:45
	16:30	17:34	18:31	20:33	21:30 47	20:37 (8) 22:07 46	20:41 (8)	20:48 (8)	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	19:49 (8) 04:42	19:55 (8)	19:59 (8)	07:01	07:59	08:03	08:46
	16:32	17:36	18:33	20:35	21:32 48	20:37 (8) 22:07 47	20:42 (8)	20:49 (8)	19:33	18:17	16:14	15:54
20	08:36	07:38	06:28	06:10	05:08	19:49 (8) 04:42	19:55 (8)	19:59 (8)	07:03	08:02	08:04	08:47
	16:34	17:38	18:35	20:36	21:33 49	20:38 (8) 22:08 47	20:42 (8)	20:48 (8)	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:06	19:50 (8) 04:42	19:55 (8)	19:59 (8)	07:05	08:04	08:06	08:48
	16:36	17:40	18:37	20:38	21:35 48	20:38 (8) 22:08 47	20:42 (8)	20:49 (8)	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	19:49 (8) 04:43	19:56 (8)	19:59 (8)	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:37 49	20:38 (8) 22:08 47	20:43 (8)	20:48 (8)	19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03	05:03	19:49 (8) 04:43	19:56 (8)	20:00 (8)	07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42	21:38 49	20:38 (8) 22:08 47	20:43 (8)	20:49 (8)	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	19:49 (8) 04:43	19:56 (8)	20:00 (8)	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40 50	20:39 (8) 22:08 46	20:42 (8)	20:48 (8)	19:20	18:05	16:08	15:57
25	08:29	07:26	06:16	05:58	05:00	19:49 (8) 04:43	19:57 (8)	20:01 (8)	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41 49	20:38 (8) 22:08 46	20:43 (8)	20:48 (8)	19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	04:59	19:49 (8) 04:44	19:56 (8)	20:00 (8)	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43 50	20:39 (8) 22:08 47	20:43 (8)	20:47 (8)	19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	04:58	19:49 (8) 04:44	19:57 (8)	20:01 (8)	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44 50	20:39 (8) 22:08 47	20:44 (8)	20:47 (8)	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:56	19:49 (8) 04:45	19:57 (8)	20:01 (8)	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46 50	20:39 (8) 22:08 47	20:44 (8)	20:46 (8)	19:09	16:56	16:03	16:00
29	08:22		07:05	05:49	04:55	19:49 (8) 04:46	19:57 (8)	20:02 (8)	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47 50	20:39 (8) 22:08 47	20:44 (8)	20:46 (8)	19:07	16:54	16:02	16:00
30	08:20		07:03	05:47	04:54	19:50 (8) 04:46	19:57 (8)	20:02 (8)	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49 49	20:39 (8) 22:08 47	20:44 (8)	20:45 (8)	19:04	16:52	16:01	16:01
31	08:19		07:00		04:53	19:50 (8)	05:28	20:03 (8)		07:24		08:50
	16:56		19:57		21:50 49	20:39 (8)	21:31 42	20:45 (8)		16:50		16:02
Potential sun hours	243	269	366	423	501	519	521	465	383	326	253	225
Total, worst case					1210	1423	1495	284				
Sun reduction					0,52	0,48	0,49	0,52				
Oper. time red.					0,99	0,99	0,99	0,99				
Wind dir. red.					0,63	0,63	0,63	0,63				
Total reduction					0,32	0,30	0,30	0,32				
Total, real					390	428	453	91				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninës Shadow receptor: Q - Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	19:36 (8) 04:52	19:43 (8) 04:47	19:59 (8) 05:30	19:43 (8) 06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58 41	20:17 (8) 21:52 28	20:11 (8) 22:07 8	20:07 (8) 21:29 46	20:29 (8) 20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	19:35 (8) 04:51	19:44 (8) 04:48	19:58 (8) 05:31	19:42 (8) 06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00 41	20:16 (8) 21:53 26	20:10 (8) 22:07 11	20:09 (8) 21:27 46	20:28 (8) 20:16	18:59	16:46	15:59
3	08:50	08:13	07:11	06:53	05:41	19:34 (8) 04:50	19:45 (8) 04:48	19:57 (8) 05:33	19:42 (8) 06:31	07:28	07:30	08:28
	16:06	17:02	18:01	20:03	21:02 43	20:17 (8) 21:54 26	20:11 (8) 22:06 14	20:11 (8) 21:25 47	20:29 (8) 20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	19:33 (8) 04:49	19:46 (8) 04:49	19:57 (8) 05:35	19:43 (8) 06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04 44	20:17 (8) 21:55 24	20:10 (8) 22:06 15	20:12 (8) 21:23 46	20:29 (8) 20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	19:34 (8) 04:48	19:47 (8) 04:50	19:55 (8) 05:37	19:42 (8) 06:35	07:32	07:34	08:31
	16:09	17:06	18:05	20:07	21:06 44	20:18 (8) 21:56 22	20:09 (8) 22:05 17	20:12 (8) 21:21 46	20:28 (8) 20:09	18:52	16:39	15:57
6	08:48	08:08	07:04	06:45	05:34	19:33 (8) 04:47	19:47 (8) 04:51	19:54 (8) 05:39	19:42 (8) 06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:08 45	20:18 (8) 21:58 21	20:08 (8) 22:04 20	20:14 (8) 21:19 46	20:28 (8) 20:06	18:49	16:37	15:56
7	08:48	08:06	07:01	06:42	05:32	19:33 (8) 04:46	19:49 (8) 04:52	19:54 (8) 05:40	19:43 (8) 06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:10 46	20:19 (8) 21:59 19	20:08 (8) 22:04 21	20:15 (8) 21:17 45	20:28 (8) 20:04	18:47	16:35	15:56
8	08:47	08:04	06:59	06:40	05:30	19:33 (8) 04:46	19:50 (8) 04:53	19:53 (8) 05:42	19:43 (8) 06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11 46	20:19 (8) 22:00 16	20:06 (8) 22:03 23	20:16 (8) 21:15 45	20:28 (8) 20:01	18:44	16:33	15:55
9	08:47	08:02	06:56	06:37	05:28	19:32 (8) 04:45	19:52 (8) 04:54	19:52 (8) 05:44	19:43 (8) 06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13 46	20:18 (8) 22:01 14	20:06 (8) 22:02 25	20:17 (8) 21:13 43	20:26 (8) 19:59	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	19:32 (8) 04:45	19:52 (8) 04:56	19:51 (8) 05:46	19:44 (8) 06:44	07:42	07:45	08:37
	16:16	17:17	18:15	20:17	21:15 46	20:18 (8) 22:02 12	20:04 (8) 22:01 26	20:17 (8) 21:11 42	20:26 (8) 19:56	18:39	16:30	15:54
11	08:45	07:57	06:51	06:32	05:24	19:32 (8) 04:44	19:54 (8) 04:57	19:52 (8) 05:48	19:44 (8) 06:46	07:44	07:47	08:39
	16:18	17:19	18:17	20:19	21:17 46	20:18 (8) 22:02 10	20:04 (8) 22:00 27	20:19 (8) 21:09 41	20:25 (8) 19:53	18:36	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	19:33 (8) 04:44	19:57 (8) 04:58	19:51 (8) 05:50	19:44 (8) 06:48	07:46	07:49	08:40
	16:19	17:21	18:19	20:21	21:19 46	20:19 (8) 22:03 6	20:03 (8) 21:59 29	20:20 (8) 21:06 40	20:24 (8) 19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	19:32 (8) 04:43	04:59	19:50 (8) 05:52	19:45 (8) 06:50	07:48	07:51	08:41
	16:21	17:23	18:21	20:23	21:21 46	20:18 (8) 22:04	21:58 31	20:21 (8) 21:04 38	20:23 (8) 19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	19:32 (8) 04:43	05:01	19:49 (8) 05:54	19:46 (8) 06:52	07:50	07:53	08:42
	16:23	17:26	18:23	20:25	21:23 46	20:18 (8) 22:05	21:57 32	20:21 (8) 21:02 36	20:22 (8) 19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	19:33 (8) 04:43	05:02	19:48 (8) 05:55	19:47 (8) 06:54	07:52	07:55	08:43
	16:25	17:28	18:25	20:27	21:24 45	20:18 (8) 22:05	21:56 34	20:22 (8) 21:00 34	20:21 (8) 19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	19:33 (8) 04:42	05:03	19:48 (8) 05:57	19:49 (8) 06:56	07:53	07:57	08:44
	16:26	17:30	18:27	20:29	21:26 45	20:18 (8) 22:06	21:55 35	20:23 (8) 20:57 31	20:20 (8) 19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:17	05:13	19:33 (8) 04:42	05:05	19:48 (8) 05:59	19:49 (8) 06:58	07:55	07:59	08:45
	16:28	17:32	18:29	20:31	21:28 44	20:17 (8) 22:06	21:53 35	20:23 (8) 20:55 28	20:17 (8) 19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:11	19:34 (8) 04:42	05:06	19:47 (8) 06:01	19:51 (8) 07:00	07:57	08:01	08:45
	16:30	17:34	18:31	20:33	21:30 43	20:17 (8) 22:07	21:52 37	20:24 (8) 20:53 25	20:16 (8) 19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	19:33 (8) 04:42	05:08	19:47 (8) 06:03	19:53 (8) 07:01	07:59	08:03	08:46
	16:32	17:36	18:33	20:35	21:32 44	20:17 (8) 22:07	21:51 38	20:25 (8) 20:50 20	20:13 (8) 19:33	18:17	16:14	15:54
20	08:36	07:38	06:28	06:10	05:08	19:34 (8) 04:42	05:09	19:46 (8) 06:05	19:57 (8) 07:03	08:02	08:04	08:47
	16:34	17:38	18:35	20:36	21:33 43	20:17 (8) 22:08	21:49 39	20:25 (8) 20:48 13	20:10 (8) 19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:06	19:35 (8) 04:42	05:11	19:46 (8) 06:07	07:05	08:04	08:06	08:48
	16:36	17:40	18:37	20:38	21:35 42	20:17 (8) 22:08	21:48 40	20:26 (8) 20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	19:35 (8) 04:43	05:13	19:45 (8) 06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:37 41	20:16 (8) 22:08	21:46 41	20:26 (8) 20:43	19:25	18:10	16:10	15:55
23	08:32	07:31	06:21	06:03 19:51 (8)	05:03	19:36 (8) 04:43	05:14	19:45 (8) 06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:41	20:42 14 20:05 (8)	21:38 40	20:16 (8) 22:08	21:45 42	20:27 (8) 20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01 19:47 (8)	05:02	19:37 (8) 04:43	05:16	19:44 (8) 06:12	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44 21 20:08 (8)	21:40 39	20:16 (8) 22:08	21:43 43	20:27 (8) 20:39	19:20	18:05	16:08	15:57
25	08:29	07:26	06:16	05:58 19:44 (8)	05:00	19:37 (8) 04:43	05:17	19:45 (8) 06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46 25 20:09 (8)	21:41 37	20:14 (8) 22:08	21:42 43	20:28 (8) 20:36	19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56 19:42 (8)	04:59	19:38 (8) 04:44	05:19	19:44 (8) 06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48 29 20:11 (8)	21:43 36	20:14 (8) 22:08	21:40 44	20:28 (8) 20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54 19:41 (8)	04:58	19:39 (8) 04:44	05:21	19:44 (8) 06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50 32 20:13 (8)	21:44 35	20:14 (8) 22:08	21:38 44	20:28 (8) 20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52 19:39 (8)	04:56	19:39 (8) 04:45	05:23	19:43 (8) 06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52 35 20:14 (8)	21:46 34	20:13 (8) 22:08	21:36 45	20:28 (8) 20:29	19:09	16:56	16:03	16:00
29	08:22		07:05	05:49 19:38 (8)	04:55	19:40 (8) 04:46	05:24	19:43 (8) 06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54 37 20:15 (8)	21:47 33	20:13 (8) 22:08	21:35 46	20:29 (8) 20:26	19:07	16:54	16:02	16:00
30	08:20		07:03	05:47 19:37 (8)	04:54	19:41 (8) 04:46 20:01 (8)	05:26	19:42 (8) 06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56 39 20:16 (8)	21:49 31	20:12 (8) 22:08 4 20:05 (8)	21:33 46	20:28 (8) 20:24	19:04	16:52	16:01	16:01
31	08:19		07:00		04:53	19:42 (8)	05:28	19:43 (8) 06:26		07:24		08:50
	16:56		19:57		21:50 30	20:12 (8)	21:31 46	20:29 (8) 20:21		16:50		16:02
Potential sun hours	243	269	366	423	501	519	521	465	383	326	253	225
Total, worst case				232	1288	228	997	758				
Sun reduction				0,39	0,52	0,48	0,49	0,52				
Oper. time red.				0,99	0,99	0,99	0,99	0,99				
Wind dir. red.				0,62	0,62	0,62	0,62	0,62				
Total reduction				0,24	0,32	0,30	0,30	0,32				
Total, real				56	410	68	298	240				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninës Shadow receptor: R - Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January		February		March		April		May	June
1	08:50	10:21 (8)	08:17	10:43 (8)	07:16		06:58	19:10 (9)	05:45	04:52
	16:04 50	11:11 (8)	16:58 25	11:08 (8)	17:57		19:59 19	19:29 (9)	20:58	21:52
2	08:50	10:21 (8)	08:15	10:45 (8)	07:14		06:55	19:07 (9)	05:43	04:51
	16:05 50	11:11 (8)	17:00 21	11:06 (8)	17:59		20:01 24	19:31 (9)	21:00	21:53
3	08:50	10:22 (8)	08:13	10:49 (8)	07:11		06:53	19:05 (9)	05:41	04:50
	16:06 50	11:12 (8)	17:02 13	11:02 (8)	18:01		20:03 28	19:33 (9)	21:02	21:54
4	08:49	10:22 (8)	08:12	16:31 (7)	07:09		06:50	19:03 (9)	05:38	04:49
	16:08 50	11:12 (8)	17:04 1	16:32 (7)	18:03		20:05 31	19:34 (9)	21:04	21:55
5	08:49	10:23 (8)	08:10	16:29 (7)	07:07		06:48	19:02 (9)	05:36	04:48
	16:09 50	11:13 (8)	17:07 5	16:34 (7)	18:05		20:07 33	19:35 (9)	21:06	21:57
6	08:49	10:23 (8)	08:08	16:28 (7)	07:04		06:45	19:00 (9)	05:34	04:47
	16:10 50	11:13 (8)	17:09 9	16:37 (7)	18:07		20:09 35	19:35 (9)	21:08	21:58
7	08:48	10:23 (8)	08:06	16:28 (7)	07:02		06:42	19:00 (9)	05:32	04:46
	16:12 50	11:13 (8)	17:11 11	16:39 (7)	18:09		20:11 36	19:36 (9)	21:10	21:59
8	08:47	10:23 (8)	08:04	16:27 (7)	06:59		06:40	18:58 (9)	05:30	04:46
	16:13 50	11:13 (8)	17:13 15	16:42 (7)	18:11		20:13 38	19:36 (9)	21:12	22:00
9	08:47	10:25 (8)	08:02	16:26 (7)	06:57		06:37	18:58 (9)	05:28	04:45
	16:15 50	11:15 (8)	17:15 17	16:43 (7)	18:14		20:15 38	19:36 (9)	21:14	22:01
10	08:46	10:25 (8)	08:00	16:26 (7)	06:54		06:35	18:57 (9)	05:26	04:45
	16:16 50	11:15 (8)	17:17 20	16:46 (7)	18:16		20:17 39	19:36 (9)	21:15	22:02
11	08:45	10:25 (8)	07:58	16:26 (7)	06:51		06:32	18:57 (9)	05:24	04:44
	16:18 50	11:15 (8)	17:19 22	16:48 (7)	18:18		20:19 39	19:36 (9)	21:17	22:03
12	08:44	10:25 (8)	07:55	16:27 (7)	06:49		06:30	18:57 (9)	05:22	04:44
	16:19 50	11:15 (8)	17:21 22	16:49 (7)	18:20		20:21 40	19:37 (9)	21:19	22:03
13	08:44	10:26 (8)	07:53	16:26 (7)	06:46		06:27	18:56 (9)	05:20	04:43
	16:21 49	11:15 (8)	17:24 22	16:48 (7)	18:22		20:23 40	19:36 (9)	21:21	22:04
14	08:43	10:26 (8)	07:51	16:27 (7)	06:44		06:25	18:56 (9)	05:18	04:43
	16:23 50	11:16 (8)	17:26 21	16:48 (7)	18:24		20:25 40	19:36 (9)	21:23	22:05
15	08:42	10:27 (8)	07:49	16:28 (7)	06:41		06:22	18:56 (9)	05:17	04:43
	16:25 49	11:16 (8)	17:28 19	16:47 (7)	18:26		20:27 39	19:35 (9)	21:25	22:06
16	08:41	10:28 (8)	07:47	16:28 (7)	06:39		06:20	18:56 (9)	05:15	04:42
	16:26 49	11:17 (8)	17:30 18	16:46 (7)	18:28		20:29 39	19:35 (9)	21:26	22:06
17	08:39	10:28 (8)	07:44	16:30 (7)	06:36		06:18	18:57 (9)	05:13	04:42
	16:28 48	11:16 (8)	17:32 15	16:45 (7)	18:30		20:31 37	19:34 (9)	21:28	22:07
18	08:38	10:29 (8)	07:42	16:32 (7)	06:34		06:15	18:56 (9)	05:11	04:42
	16:30 48	11:17 (8)	17:34 11	16:43 (7)	18:32		20:33 37	19:33 (9)	21:30	22:07
19	08:37	10:29 (8)	07:40	16:35 (7)	06:31		06:13	18:57 (9)	05:10	04:42
	16:32 47	11:16 (8)	17:36 4	16:39 (7)	18:34		20:35 35	19:32 (9)	21:32	22:07
20	08:36	10:30 (8)	07:38		06:29		06:10	18:58 (9)	05:08	04:42
	16:34 47	11:17 (8)	17:38		18:36		20:37 33	19:31 (9)	21:33	22:08
21	08:34	10:30 (8)	07:35		06:26		06:08	18:58 (9)	05:06	04:42
	16:36 46	11:16 (8)	17:40		18:38		20:39 32	19:30 (9)	21:35	22:08
22	08:33	10:31 (8)	07:33		06:23		06:06	19:00 (9)	05:05	04:43
	16:38 46	11:17 (8)	17:43		18:39		20:41 29	19:29 (9)	21:37	22:08
23	08:32	10:32 (8)	07:31		06:21		06:03	19:01 (9)	05:03	04:43
	16:40 44	11:16 (8)	17:45		18:41		20:42 26	19:27 (9)	21:38	22:08
24	08:30	10:32 (8)	07:28		06:18		06:01	19:03 (9)	05:02	04:43
	16:42 44	11:16 (8)	17:47		18:43		20:44 23	19:26 (9)	21:40	22:09
25	08:29	10:34 (8)	07:26		06:16		05:58	19:04 (9)	05:00	04:43
	16:44 42	11:16 (8)	17:49		18:45		20:46 18	19:22 (9)	21:42	22:09
26	08:27	10:35 (8)	07:24		06:13		05:56	19:08 (9)	04:59	04:44
	16:46 40	11:15 (8)	17:51		18:47		20:48 11	19:19 (9)	21:43	22:09
27	08:26	10:35 (8)	07:21		06:11		05:54		04:58	04:44
	16:48 39	11:14 (8)	17:53		18:49		20:50		21:45	22:08
28	08:24	10:36 (8)	07:19		06:08		05:52		04:56	04:45
	16:50 37	11:13 (8)	17:55		18:51		20:52		21:46	22:08
29	08:22	10:38 (8)			07:05		05:49		04:55	04:46
	16:52 34	11:12 (8)			19:53		20:54		21:48	22:08
30	08:21	10:39 (8)			07:03		05:47		04:54	04:46
	16:54 32	11:11 (8)			19:55		20:56		21:49	22:08
31	08:19	10:41 (8)			07:00	19:14 (9)			04:53	
	16:56 29	11:10 (8)			19:57 12	19:26 (9)			21:50	
Potential sun hours	242		269		366		423		501	519
Total, worst case	1420		291		12		839			
Sun reduction	0,18		0,25		0,34		0,39			
Oper. time red.	0,99		0,99		0,99		0,99			
Wind dir. red.	0,64		0,64		0,63		0,63			
Total reduction	0,11		0,16		0,21		0,25			
Total, real	160		45		3		206			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninës Shadow receptor: R - Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August			September			October			November			December		
1	04:47	05:30			06:28		18:56 (9)	07:24			07:26		15:56 (7)	08:24		10:08 (8)
	22:07	21:29			20:19	39	19:35 (9)	19:02			16:48	19	16:15 (7)	16:00	50	10:58 (8)
2	04:48	05:31			06:29		18:56 (9)	07:26			07:28		15:56 (7)	08:26		10:07 (8)
	22:07	21:27			20:16	39	19:35 (9)	18:59			16:46	16	16:12 (7)	15:59	50	10:57 (8)
3	04:48	05:33			06:31		18:56 (9)	07:28			07:30		15:57 (7)	08:28		10:08 (8)
	22:06	21:25			20:14	39	19:35 (9)	18:57			16:43	14	16:11 (7)	15:58	50	10:58 (8)
4	04:49	05:35			06:33		18:56 (9)	07:30			07:32		15:57 (7)	08:29		10:08 (8)
	22:06	21:23			20:11	38	19:34 (9)	18:54			16:41	11	16:08 (7)	15:58	50	10:58 (8)
5	04:50	05:37			06:35		18:56 (9)	07:32			07:34		15:58 (7)	08:31		10:08 (8)
	22:05	21:21			20:09	36	19:32 (9)	18:52			16:39	8	16:06 (7)	15:57	50	10:58 (8)
6	04:51	05:39			06:37		18:56 (9)	07:34			07:36		15:59 (7)	08:32		10:09 (8)
	22:05	21:19			20:06	35	19:31 (9)	18:49			16:37	5	16:04 (7)	15:56	50	10:59 (8)
7	04:52	05:41			06:39		18:57 (9)	07:36			07:39			08:34		10:09 (8)
	22:04	21:17			20:04	33	19:30 (9)	18:47			16:35			15:56	50	10:59 (8)
8	04:53	05:42			06:41		18:58 (9)	07:38			07:41		10:19 (8)	08:35		10:10 (8)
	22:03	21:15			20:01	31	19:29 (9)	18:44			16:33	14	10:33 (8)	15:55	50	11:00 (8)
9	04:55	05:44			06:43		18:59 (9)	07:40			07:43		10:16 (8)	08:36		10:10 (8)
	22:02	21:13			19:59	28	19:27 (9)	18:42			16:32	21	10:37 (8)	15:55	50	11:00 (8)
10	04:56	05:46			06:45		19:00 (9)	07:42			07:45		10:13 (8)	08:38		10:11 (8)
	22:01	21:11			19:56	24	19:24 (9)	18:39			16:30	26	10:39 (8)	15:54	50	11:01 (8)
11	04:57	05:48			06:46		19:02 (9)	07:44			07:47		10:12 (8)	08:39		10:11 (8)
	22:00	21:09			19:54	20	19:22 (9)	18:37			16:28	30	10:42 (8)	15:54	50	11:01 (8)
12	04:58	05:50			06:48		19:05 (9)	07:46			07:49		10:11 (8)	08:40		10:12 (8)
	21:59	21:07			19:51	13	19:18 (9)	18:34			16:26	32	10:43 (8)	15:54	49	11:01 (8)
13	04:59	05:52			06:50			07:48			07:51		10:09 (8)	08:41		10:12 (8)
	21:58	21:04			19:48			18:32			16:24	35	10:44 (8)	15:54	49	11:01 (8)
14	05:01	05:54			06:52			07:50			07:53		10:08 (8)	08:42		10:12 (8)
	21:57	21:02			19:46			18:29			16:23	37	10:45 (8)	15:54	49	11:01 (8)
15	05:02	05:55			06:54			07:52			07:55		10:08 (8)	08:43		10:13 (8)
	21:56	21:00			19:43			18:27			16:21	39	10:47 (8)	15:54	49	11:02 (8)
16	05:04	05:57			06:56			07:54			07:57		10:07 (8)	08:44		10:13 (8)
	21:55	20:58			19:41			18:24			16:19	41	10:48 (8)	15:54	49	11:02 (8)
17	05:05	05:59		19:13 (9)	06:58			07:56			07:59		10:07 (8)	08:45		10:14 (8)
	21:54	20:55	14	19:27 (9)	19:38			18:22			16:18	42	10:49 (8)	15:54	49	11:03 (8)
18	05:06	06:01		19:10 (9)	07:00			07:58			08:01		10:06 (8)	08:46		10:15 (8)
	21:52	20:53	19	19:29 (9)	19:35			18:19			16:16	44	10:50 (8)	15:54	48	11:03 (8)
19	05:08	06:03		19:08 (9)	07:01			08:00			08:03		10:06 (8)	08:46		10:16 (8)
	21:51	20:51	23	19:31 (9)	19:33			18:17			16:15	44	10:50 (8)	15:54	48	11:04 (8)
20	05:09	06:05		19:06 (9)	07:03			08:02			08:05		10:06 (8)	08:47		10:15 (8)
	21:49	20:48	27	19:33 (9)	19:30			18:15			16:13	46	10:52 (8)	15:55	49	11:04 (8)
21	05:11	06:07		19:04 (9)	07:05			08:04			08:07		10:06 (8)	08:48		10:16 (8)
	21:48	20:46	29	19:33 (9)	19:28			18:12			16:12	46	10:52 (8)	15:55	49	11:05 (8)
22	05:13	06:09		19:03 (9)	07:07			08:06			08:08		10:06 (8)	08:48		10:16 (8)
	21:46	20:44	31	19:34 (9)	19:25			18:10			16:10	47	10:53 (8)	15:55	49	11:05 (8)
23	05:14	06:11		19:02 (9)	07:09			08:08		17:04 (7)	08:10		10:06 (8)	08:49		10:17 (8)
	21:45	20:41	33	19:35 (9)	19:22			18:08	7	17:11 (7)	16:09	47	10:53 (8)	15:56	49	11:06 (8)
24	05:16	06:12		19:01 (9)	07:11			08:10		17:01 (7)	08:12		10:06 (8)	08:49		10:17 (8)
	21:43	20:39	35	19:36 (9)	19:20			18:05	12	17:13 (7)	16:08	48	10:54 (8)	15:57	49	11:06 (8)
25	05:17	06:14		19:00 (9)	07:13			07:12		15:59 (7)	08:14		10:06 (8)	08:50		10:18 (8)
	21:42	20:36	37	19:37 (9)	19:17			17:03	16	16:15 (7)	16:06	48	10:54 (8)	15:57	48	11:06 (8)
26	05:19	06:16		18:58 (9)	07:15			07:14		15:58 (7)	08:16		10:06 (8)	08:50		10:19 (8)
	21:40	20:34	38	19:36 (9)	19:15			17:01	18	16:16 (7)	16:05	49	10:55 (8)	15:58	49	11:08 (8)
27	05:21	06:18		18:58 (9)	07:17			07:16		15:57 (7)	08:18		10:06 (8)	08:50		10:19 (8)
	21:38	20:31	38	19:36 (9)	19:12			16:59	20	16:17 (7)	16:04	49	10:55 (8)	15:59	49	11:08 (8)
28	05:23	06:20		18:57 (9)	07:19			07:18		15:56 (7)	08:19		10:06 (8)	08:50		10:20 (8)
	21:37	20:29	40	19:37 (9)	19:10			16:56	21	16:17 (7)	16:03	50	10:56 (8)	16:00	49	11:09 (8)
29	05:24	06:22		18:57 (9)	07:20			07:20		15:55 (7)	08:21		10:07 (8)	08:50		10:20 (8)
	21:35	20:26	40	19:37 (9)	19:07			16:54	22	16:17 (7)	16:02	49	10:56 (8)	16:00	49	11:09 (8)
30	05:26	06:24		18:57 (9)	07:22			07:22		15:56 (7)	08:23		10:07 (8)	08:50		10:20 (8)
	21:33	20:24	40	19:37 (9)	19:04			16:52	22	16:18 (7)	16:01	50	10:57 (8)	16:01	49	11:09 (8)
31	05:28	06:26		18:56 (9)				07:24		15:56 (7)				08:50		10:20 (8)
	21:31	20:21	40	19:36 (9)				16:50	21	16:17 (7)				16:02	50	11:10 (8)
Potential sun hours	521	465			383			326			253			225		
Total, worst case			484			375			159			1007			1528	
Sun reduction			0,52			0,40			0,31			0,16			0,14	
Oper. time red.			0,99			0,99			0,99			0,99			0,99	
Wind dir. red.			0,63			0,63			0,65			0,64			0,64	
Total reduction			0,32			0,25			0,20			0,10			0,08	
Total, real			155			92			31			100			129	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninës Shadow receptor: S - Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February			March	April	May	June
1	08:50		12:20 (10)	08:17		12:26 (10)	07:16	06:58	05:45	04:52
	16:04	65	13:25 (10)	16:58	99	16:16 (9)	17:57	19:59	20:58	21:52
2	08:50		12:19 (10)	08:15		12:27 (10)	07:14	06:55	05:43	04:51
	16:05	67	13:26 (10)	17:00	98	16:16 (9)	17:59	20:01	21:00	21:53
3	08:50		12:20 (10)	08:13		12:27 (10)	07:11	06:53	05:41	04:50
	16:06	67	13:27 (10)	17:02	96	16:16 (9)	18:01	20:03	21:02	21:54
4	08:49		12:20 (10)	08:12		12:28 (10)	07:09	06:50	05:38	04:49
	16:07	67	13:27 (10)	17:04	95	16:16 (9)	18:03	20:05	21:04	21:56
5	08:49		12:21 (10)	08:10		12:29 (10)	07:07	06:47	05:36	04:48
	16:09	67	13:28 (10)	17:06	92	16:15 (9)	18:05	20:07	21:06	21:57
6	08:49		12:21 (10)	08:08		12:29 (10)	07:04	06:45	05:34	04:47
	16:10	67	13:28 (10)	17:09	91	16:15 (9)	18:07	20:09	21:08	21:58
7	08:48		12:20 (10)	08:06		12:30 (10)	07:02	06:42	05:32	04:46
	16:12	69	13:29 (10)	17:11	88	16:15 (9)	18:09	20:11	21:10	21:59
8	08:47		12:22 (10)	08:04		12:31 (10)	06:59	06:40	05:30	04:46
	16:13	68	13:30 (10)	17:13	85	16:14 (9)	18:11	20:13	21:12	22:00
9	08:47		12:22 (10)	08:02		12:31 (10)	06:57	06:37	05:28	04:45
	16:15	69	13:31 (10)	17:15	79	16:11 (9)	18:13	20:15	21:14	22:01
10	08:46		12:22 (10)	08:00		12:33 (10)	06:54	06:35	05:26	04:44
	16:16	70	13:32 (10)	17:17	73	16:10 (9)	18:16	20:17	21:15	22:02
11	08:45		12:22 (10)	07:58		12:34 (10)	06:51	06:32	05:24	04:44
	16:18	70	13:32 (10)	17:19	60	13:34 (10)	18:18	20:19	21:17	22:03
12	08:45		12:22 (10)	07:55		12:35 (10)	06:49	06:30	05:22	04:44
	16:19	71	13:33 (10)	17:21	58	13:33 (10)	18:20	20:21	21:19	22:04
13	08:44		12:21 (10)	07:53		12:36 (10)	06:46	06:27	05:20	04:43
	16:21	72	13:33 (10)	17:23	55	13:31 (10)	18:22	20:23	21:21	22:04
14	08:43		12:22 (10)	07:51		12:38 (10)	06:44	06:25	05:18	04:43
	16:23	71	13:33 (10)	17:26	52	13:30 (10)	18:24	20:25	21:23	22:05
15	08:42		12:22 (10)	07:49		12:40 (10)	06:41	06:22	05:17	04:43
	16:25	72	13:34 (10)	17:28	49	13:29 (10)	18:26	20:27	21:25	22:06
16	08:41		12:23 (10)	07:47		12:41 (10)	06:39	06:20	05:15	04:42
	16:26	72	13:35 (10)	17:30	45	13:26 (10)	18:28	20:29	21:26	22:06
17	08:40		12:22 (10)	07:44		12:44 (10)	06:36	06:18	05:13	04:42
	16:28	73	13:35 (10)	17:32	40	13:24 (10)	18:30	20:31	21:28	22:07
18	08:38		12:23 (10)	07:42		12:47 (10)	06:34	06:15	05:11	04:42
	16:30	73	13:36 (10)	17:34	35	13:22 (10)	18:32	20:33	21:30	22:07
19	08:37		12:22 (10)	07:40		12:50 (10)	06:31	06:13	05:10	04:42
	16:32	74	13:36 (10)	17:36	28	13:18 (10)	18:34	20:35	21:32	22:08
20	08:36		12:23 (10)	07:38		12:56 (10)	06:29	06:10	05:08	04:42
	16:34	74	13:37 (10)	17:38	16	13:12 (10)	18:36	20:37	21:33	22:08
21	08:35		12:23 (10)	07:35			06:26	06:08	05:06	04:42
	16:36	78	15:59 (9)	17:40			18:37	20:39	21:35	22:08
22	08:33		12:24 (10)	07:33			06:23	06:05	05:05	04:42
	16:38	82	16:02 (9)	17:43			18:39	20:41	21:37	22:08
23	08:32		12:24 (10)	07:31			06:21	06:03	05:03	04:43
	16:40	85	16:04 (9)	17:45			18:41	20:43	21:38	22:09
24	08:30		12:24 (10)	07:28			06:18	06:01	05:02	04:43
	16:42	88	16:06 (9)	17:47			18:43	20:44	21:40	22:09
25	08:29		12:25 (10)	07:26			06:16	05:58	05:00	04:43
	16:44	91	16:09 (9)	17:49			18:45	20:46	21:42	22:09
26	08:27		12:25 (10)	07:24			06:13	05:56	04:59	04:44
	16:46	94	16:11 (9)	17:51			18:47	20:48	21:43	22:09
27	08:26		12:25 (10)	07:21			06:11	05:54	04:58	04:44
	16:48	96	16:13 (9)	17:53			18:49	20:50	21:45	22:08
28	08:24		12:25 (10)	07:19			06:08	05:52	04:56	04:45
	16:50	98	16:14 (9)	17:55			18:51	20:52	21:46	22:08
29	08:22		12:25 (10)				07:05	05:49	04:55	04:45
	16:52	99	16:15 (9)				19:53	20:54	21:48	22:08
30	08:21		12:25 (10)				07:03	05:47	04:54	04:46
	16:54	99	16:15 (9)				19:55	20:56	21:49	22:08
31	08:19		12:26 (10)				07:00		04:53	
	16:56	99	16:16 (9)				19:57		21:50	
Potential sun hours	242			269			366	423	501	519
Total, worst case		2407			1334					
Sun reduction		0,18			0,25					
Oper. time red.		0,99			0,99					
Wind dir. red.		0,65			0,65					
Total reduction		0,12			0,16					
Total, real		277			208					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: S - Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October			November			December		
1	04:47	05:30	06:28	07:24			07:26		12:02 (10)	08:25		12:04 (10)
	22:07	21:29	20:19	19:02			16:48	75	15:40 (9)	16:00	70	13:14 (10)
2	04:48	05:31	06:29	07:26			07:28		12:01 (10)	08:26		12:04 (10)
	22:07	21:27	20:16	18:59			16:46	79	15:41 (9)	15:59	70	13:14 (10)
3	04:48	05:33	06:31	07:28			07:30		12:01 (10)	08:28		12:05 (10)
	22:07	21:25	20:14	18:57			16:43	85	15:44 (9)	15:58	69	13:14 (10)
4	04:49	05:35	06:33	07:30			07:32		12:00 (10)	08:29		12:06 (10)
	22:06	21:23	20:11	18:54			16:41	87	15:44 (9)	15:58	69	13:15 (10)
5	04:50	05:37	06:35	07:32			07:34		11:59 (10)	08:31		12:06 (10)
	22:05	21:21	20:09	18:52			16:39	91	15:45 (9)	15:57	68	13:14 (10)
6	04:51	05:39	06:37	07:34			07:36		11:58 (10)	08:32		12:07 (10)
	22:05	21:19	20:06	18:49			16:37	93	15:45 (9)	15:56	68	13:15 (10)
7	04:52	05:40	06:39	07:36			07:39		11:59 (10)	08:34		12:08 (10)
	22:04	21:17	20:04	18:47			16:35	95	15:47 (9)	15:56	67	13:15 (10)
8	04:53	05:42	06:41	07:38			07:41		11:58 (10)	08:35		12:08 (10)
	22:03	21:15	20:01	18:44			16:33	97	15:47 (9)	15:55	67	13:15 (10)
9	04:54	05:44	06:43	07:40			07:43		11:57 (10)	08:36		12:08 (10)
	22:02	21:13	19:59	18:42			16:32	98	15:47 (9)	15:55	67	13:15 (10)
10	04:56	05:46	06:45	07:42			07:45		11:57 (10)	08:38		12:09 (10)
	22:01	21:11	19:56	18:39			16:30	98	15:47 (9)	15:54	67	13:16 (10)
11	04:57	05:48	06:46	07:44			07:47		11:58 (10)	08:39		12:10 (10)
	22:00	21:09	19:54	18:37			16:28	98	15:47 (9)	15:54	66	13:16 (10)
12	04:58	05:50	06:48	07:46			07:49		11:57 (10)	08:40		12:10 (10)
	21:59	21:07	19:51	18:34			16:26	99	15:47 (9)	15:54	66	13:16 (10)
13	04:59	05:52	06:50	07:48			07:51		11:57 (10)	08:41		12:11 (10)
	21:58	21:04	19:48	18:32			16:24	99	15:47 (9)	15:54	65	13:16 (10)
14	05:01	05:54	06:52	07:50			07:53		11:57 (10)	08:42		12:12 (10)
	21:57	21:02	19:46	18:29			16:23	98	15:46 (9)	15:54	65	13:17 (10)
15	05:02	05:55	06:54	07:52			07:55		11:58 (10)	08:43		12:13 (10)
	21:56	21:00	19:43	18:27			16:21	96	15:46 (9)	15:54	64	13:17 (10)
16	05:03	05:57	06:56	07:54			07:57		11:58 (10)	08:44		12:12 (10)
	21:55	20:58	19:41	18:24			16:19	94	15:44 (9)	15:54	65	13:17 (10)
17	05:05	05:59	06:58	07:56			07:59		11:58 (10)	08:45		12:13 (10)
	21:54	20:55	19:38	18:22			16:18	91	15:42 (9)	15:54	64	13:17 (10)
18	05:06	06:01	07:00	07:58			08:01		11:58 (10)	08:46		12:14 (10)
	21:52	20:53	19:35	18:19			16:16	88	15:40 (9)	15:54	64	13:18 (10)
19	05:08	06:03	07:01	08:00			08:03		11:58 (10)	08:46		12:15 (10)
	21:51	20:51	19:33	18:17			16:14	85	15:38 (9)	15:54	63	13:18 (10)
20	05:09	06:05	07:03	08:02			08:05		11:59 (10)	08:47		12:15 (10)
	21:49	20:48	19:30	18:15			16:13	82	15:37 (9)	15:55	64	13:19 (10)
21	05:11	06:07	07:05	08:04			08:07		11:59 (10)	08:48		12:15 (10)
	21:48	20:46	19:28	18:12			16:12	78	15:35 (9)	15:55	64	13:19 (10)
22	05:12	06:09	07:07	08:06		13:25 (10)	08:08		11:59 (10)	08:48		12:16 (10)
	21:47	20:44	19:25	18:10	20	13:45 (10)	16:10	74	13:13 (10)	15:55	64	13:20 (10)
23	05:14	06:11	07:09	08:08		13:19 (10)	08:10		12:00 (10)	08:49		12:16 (10)
	21:45	20:41	19:22	18:08	30	13:49 (10)	16:09	73	13:13 (10)	15:56	64	13:20 (10)
24	05:16	06:12	07:11	08:10		13:16 (10)	08:12		12:00 (10)	08:49		12:16 (10)
	21:43	20:39	19:20	18:05	36	13:52 (10)	16:07	73	13:13 (10)	15:56	64	13:20 (10)
25	05:17	06:14	07:13	07:12		12:14 (10)	08:14		12:00 (10)	08:50		12:18 (10)
	21:42	20:36	19:17	17:03	41	12:55 (10)	16:06	73	13:13 (10)	15:57	64	13:22 (10)
26	05:19	06:16	07:15	07:14		12:11 (10)	08:16		12:01 (10)	08:50		12:18 (10)
	21:40	20:34	19:15	17:01	46	12:57 (10)	16:05	72	13:13 (10)	15:58	64	13:22 (10)
27	05:21	06:18	07:17	07:16		12:09 (10)	08:18		12:01 (10)	08:50		12:18 (10)
	21:38	20:31	19:12	16:59	50	12:59 (10)	16:04	72	13:13 (10)	15:59	64	13:22 (10)
28	05:22	06:20	07:19	07:18		12:07 (10)	08:19		12:02 (10)	08:50		12:19 (10)
	21:37	20:29	19:10	16:56	53	13:00 (10)	16:03	72	13:14 (10)	15:59	64	13:23 (10)
29	05:24	06:22	07:20	07:20		12:05 (10)	08:21		12:03 (10)	08:50		12:19 (10)
	21:35	20:26	19:07	16:54	56	13:01 (10)	16:02	71	13:14 (10)	16:00	65	13:24 (10)
30	05:26	06:24	07:22	07:22		12:05 (10)	08:23		12:03 (10)	08:50		12:19 (10)
	21:33	20:24	19:04	16:52	58	13:03 (10)	16:01	71	13:14 (10)	16:01	65	13:24 (10)
31	05:28	06:26		07:24		12:03 (10)				08:50		12:19 (10)
	21:31	20:21		16:50	63	15:35 (9)				16:02	65	13:24 (10)
Potential sun hours	521	465	383	326			253			225		
Total, worst case					453			2557			2035	
Sun reduction					0,31			0,16			0,14	
Oper. time red.					0,99			0,99			0,99	
Wind dir. red.					0,65			0,65			0,65	
Total reduction					0,20			0,10			0,09	
Total, real					89			257			176	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: T - Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January			February	March			April	May	June
1	08:50		14:42 (8)	08:17	07:16			06:58	05:45	04:52
	16:04	16	14:58 (8)	16:58	17:57			19:59	20:58	21:52
2	08:50		14:42 (8)	08:15	07:14			06:55	05:43	04:51
	16:05	15	14:57 (8)	17:00	17:59			20:01	21:00	21:53
3	08:50		14:43 (8)	08:13	07:11			06:52	05:40	04:50
	16:06	15	14:58 (8)	17:02	18:01			20:03	21:02	21:54
4	08:49		14:44 (8)	08:11	07:09			06:50	05:38	04:49
	16:07	13	14:57 (8)	17:04	18:03			20:05	21:04	21:55
5	08:49		14:46 (8)	08:10	07:06		17:28 (10)	06:47	05:36	04:48
	16:09	12	14:58 (8)	17:06	18:05	9	17:37 (10)	20:07	21:06	21:57
6	08:48		14:47 (8)	08:08	07:04		17:25 (10)	06:45	05:34	04:47
	16:10	10	14:57 (8)	17:09	18:07	15	17:40 (10)	20:09	21:08	21:58
7	08:48		14:48 (8)	08:06	07:01		17:23 (10)	06:42	05:32	04:46
	16:12	8	14:56 (8)	17:11	18:09	18	17:41 (10)	20:11	21:10	21:59
8	08:47		14:51 (8)	08:04	06:59		17:22 (10)	06:40	05:30	04:46
	16:13	3	14:54 (8)	17:13	18:11	22	17:44 (10)	20:13	21:12	22:00
9	08:47			08:02	06:56		17:20 (10)	06:37	05:28	04:45
	16:15			17:15	18:13	26	17:46 (10)	20:15	21:13	22:01
10	08:46			08:00	06:54		17:19 (10)	06:35	05:26	04:44
	16:16			17:17	18:15	28	17:47 (10)	20:17	21:15	22:02
11	08:45			07:57	06:51		17:18 (10)	06:32	05:24	04:44
	16:18			17:19	18:17	29	17:47 (10)	20:19	21:17	22:03
12	08:44			07:55	06:49		17:18 (10)	06:30	05:22	04:43
	16:19			17:21	18:19	30	17:48 (10)	20:21	21:19	22:03
13	08:44			07:53	06:46		17:17 (10)	06:27	05:20	04:43
	16:21			17:23	18:21	31	17:48 (10)	20:23	21:21	22:04
14	08:43			07:51	06:44		17:16 (10)	06:25	05:18	04:43
	16:23			17:26	18:23	31	17:47 (10)	20:25	21:23	22:05
15	08:42			07:49	06:41		17:16 (10)	06:22	05:16	04:42
	16:24			17:28	18:25	32	17:48 (10)	20:27	21:25	22:06
16	08:41			07:47	06:39		17:16 (10)	06:20	05:15	04:42
	16:26			17:30	18:27	31	17:47 (10)	20:29	21:26	22:06
17	08:39			07:44	06:36		17:16 (10)	06:17	05:13	04:42
	16:28			17:32	18:29	31	17:47 (10)	20:31	21:28	22:07
18	08:38			07:42	06:34		17:16 (10)	06:15	05:11	04:42
	16:30			17:34	18:31	29	17:45 (10)	20:33	21:30	22:07
19	08:37			07:40	06:31		17:16 (10)	06:13	05:10	04:42
	16:32			17:36	18:33	28	17:44 (10)	20:35	21:32	22:07
20	08:36			07:38	06:28		17:18 (10)	06:10	05:08	04:42
	16:34			17:38	18:35	25	17:43 (10)	20:37	21:33	22:08
21	08:34			07:35	06:26		17:18 (10)	06:08	05:06	04:42
	16:36			17:40	18:37	23	17:41 (10)	20:38	21:35	22:08
22	08:33			07:33	06:23		17:20 (10)	06:05	05:05	04:42
	16:38			17:42	18:39	20	17:40 (10)	20:40	21:37	22:08
23	08:32			07:31	06:21		17:22 (10)	06:03	05:03	04:43
	16:40			17:45	18:41	15	17:37 (10)	20:42	21:38	22:08
24	08:30			07:28	06:18		17:25 (10)	06:01	05:02	04:43
	16:42			17:47	18:43	7	17:32 (10)	20:44	21:40	22:09
25	08:29			07:26	06:16			05:58	05:00	04:43
	16:44			17:49	18:45			20:46	21:41	22:09
26	08:27			07:23	06:13			05:56	04:59	04:44
	16:46			17:51	18:47			20:48	21:43	22:08
27	08:26			07:21	06:10			05:54	04:58	04:44
	16:48			17:53	18:49			20:50	21:45	22:08
28	08:24			07:19	06:08			05:51	04:56	04:45
	16:50			17:55	18:51			20:52	21:46	22:08
29	08:22				07:05			05:49	04:55	04:45
	16:52				19:53			20:54	21:48	22:08
30	08:21				07:03			05:47	04:54	04:46
	16:54				19:55			20:56	21:49	22:08
31	08:19				07:00				04:53	
	16:56				19:57				21:50	
Potential sun hours	242			269	366			423	501	519
Total, worst case		92				480				
Sun reduction		0,18				0,34				
Oper. time red.		0,99				0,99				
Wind dir. red.		0,65				0,62				
Total reduction		0,12				0,21				
Total, real		11				101				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Suminis: Planuojamos+Foninės Shadow receptor: T - Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September			October			November	December		
1	04:47	05:29	06:27			07:24		17:57 (10)	07:26	08:24		
	22:07	21:29	20:19			19:02	30	18:27 (10)	16:48	16:00		
2	04:48	05:31	06:29			07:26		17:57 (10)	07:28	08:26		
	22:07	21:27	20:16			18:59	30	18:27 (10)	16:45	15:59		
3	04:48	05:33	06:31			07:28		17:57 (10)	07:30	08:28		
	22:06	21:25	20:14			18:57	29	18:26 (10)	16:43	15:58		
4	04:49	05:35	06:33			07:30		17:57 (10)	07:32	08:29		14:36 (8)
	22:06	21:23	20:11			18:54	28	18:25 (10)	16:41	15:57	3	14:39 (8)
5	04:50	05:37	06:35			07:32		17:58 (10)	07:34	08:31		14:33 (8)
	22:05	21:21	20:09			18:52	24	18:22 (10)	16:39	15:57	8	14:41 (8)
6	04:51	05:39	06:37			07:34		17:59 (10)	07:36	08:32		14:33 (8)
	22:05	21:19	20:06			18:49	20	18:19 (10)	16:37	15:56	10	14:43 (8)
7	04:52	05:40	06:39			07:36		18:01 (10)	07:38	08:34		14:32 (8)
	22:04	21:17	20:04			18:46	16	18:17 (10)	16:35	15:56	12	14:44 (8)
8	04:53	05:42	06:41			07:38		18:03 (10)	07:40	08:35		14:32 (8)
	22:03	21:15	20:01			18:44	11	18:14 (10)	16:33	15:55	13	14:45 (8)
9	04:54	05:44	06:43			07:40		18:07 (10)	07:43	08:36		14:32 (8)
	22:02	21:13	19:59			18:41	5	18:12 (10)	16:31	15:55	14	14:46 (8)
10	04:56	05:46	06:44			07:42			07:45	08:37		14:32 (8)
	22:01	21:11	19:56			18:39			16:30	15:54	15	14:47 (8)
11	04:57	05:48	06:46			07:44			07:47	08:39		14:32 (8)
	22:00	21:09	19:53			18:36			16:28	15:54	16	14:48 (8)
12	04:58	05:50	06:48			07:46			07:49	08:40		14:32 (8)
	21:59	21:06	19:51			18:34			16:26	15:54	16	14:48 (8)
13	04:59	05:52	06:50			07:48			07:51	08:41		14:32 (8)
	21:58	21:04	19:48			18:32			16:24	15:54	17	14:49 (8)
14	05:01	05:53	06:52			07:50			07:53	08:42		14:32 (8)
	21:57	21:02	19:46			18:29			16:22	15:54	18	14:50 (8)
15	05:02	05:55	06:54			07:52			07:55	08:43		14:32 (8)
	21:56	21:00	19:43			18:27			16:21	15:54	18	14:50 (8)
16	05:03	05:57	06:56			07:54			07:57	08:44		14:33 (8)
	21:55	20:57	19:41			18:24			16:19	15:54	18	14:51 (8)
17	05:05	05:59	06:58			07:56			07:59	08:45		14:33 (8)
	21:53	20:55	19:38			18:22			16:17	15:54	19	14:52 (8)
18	05:06	06:01	06:59			07:58			08:01	08:46		14:34 (8)
	21:52	20:53	19:35			18:19			16:16	15:54	18	14:52 (8)
19	05:08	06:03	07:01		18:16 (10)	08:00			08:03	08:46		14:34 (8)
	21:51	20:51	19:33	1	18:17 (10)	18:17			16:14	15:54	19	14:53 (8)
20	05:09	06:05	07:03		18:09 (10)	08:02			08:05	08:47		14:34 (8)
	21:49	20:48	19:30	14	18:23 (10)	18:15			16:13	15:54	19	14:53 (8)
21	05:11	06:07	07:05		18:06 (10)	08:04			08:06	08:48		14:35 (8)
	21:48	20:46	19:28	19	18:25 (10)	18:12			16:11	15:55	19	14:54 (8)
22	05:12	06:09	07:07		18:03 (10)	08:06			08:08	08:48		14:35 (8)
	21:46	20:43	19:25	23	18:26 (10)	18:10			16:10	15:55	19	14:54 (8)
23	05:14	06:10	07:09		18:02 (10)	08:08			08:10	08:49		14:36 (8)
	21:45	20:41	19:22	25	18:27 (10)	18:08			16:09	15:56	19	14:55 (8)
24	05:16	06:12	07:11		18:00 (10)	08:10			08:12	08:49		14:36 (8)
	21:43	20:39	19:20	27	18:27 (10)	18:05			16:07	15:56	19	14:55 (8)
25	05:17	06:14	07:13		17:59 (10)	07:12			08:14	08:49		14:36 (8)
	21:42	20:36	19:17	29	18:28 (10)	17:03			16:06	15:57	19	14:55 (8)
26	05:19	06:16	07:15		17:58 (10)	07:14			08:16	08:50		14:38 (8)
	21:40	20:34	19:15	30	18:28 (10)	17:01			16:05	15:58	18	14:56 (8)
27	05:21	06:18	07:17		17:58 (10)	07:16			08:18	08:50		14:38 (8)
	21:38	20:31	19:12	30	18:28 (10)	16:58			16:04	15:59	19	14:57 (8)
28	05:22	06:20	07:18		17:57 (10)	07:18			08:19	08:50		14:39 (8)
	21:37	20:29	19:09	31	18:28 (10)	16:56			16:03	15:59	18	14:57 (8)
29	05:24	06:22	07:20		17:57 (10)	07:20			08:21	08:50		14:40 (8)
	21:35	20:26	19:07	31	18:28 (10)	16:54			16:02	16:00	17	14:57 (8)
30	05:26	06:24	07:22		17:57 (10)	07:22			08:23	08:50		14:39 (8)
	21:33	20:24	19:04	31	18:28 (10)	16:52			16:01	16:01	18	14:57 (8)
31	05:28	06:26				07:24				08:50		14:40 (8)
	21:31	20:21				16:50				16:02	17	14:57 (8)
Potential sun hours	521	465	383			326			253	225		
Total, worst case				291			193				455	
Sun reduction				0,40			0,31				0,14	
Oper. time red.				0,99			0,99				0,99	
Wind dir. red.				0,62			0,62				0,65	
Total reduction				0,24			0,19				0,09	
Total, real				71			36				40	

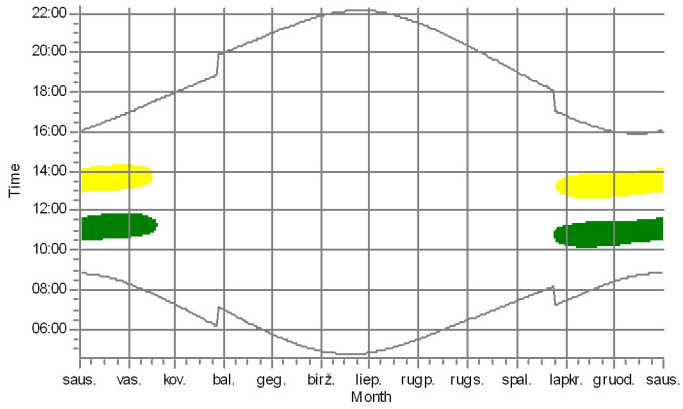
Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

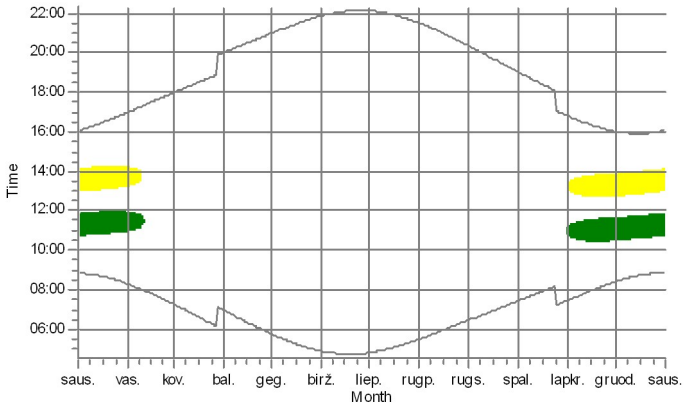
SHADOW - Calendar, graphical

Calculation: Suminis: Planuojamos+Foninės

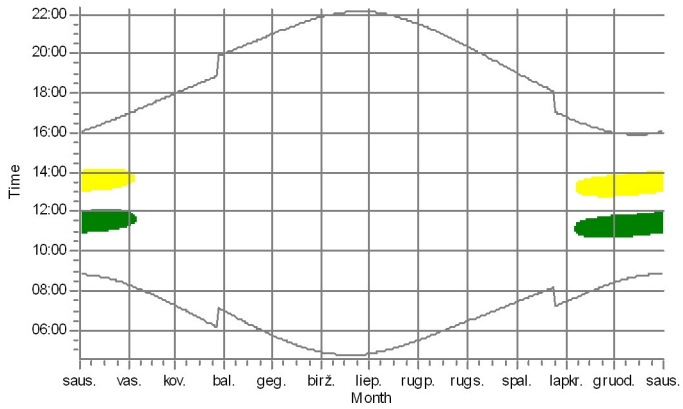
A: Gyvenamasis pastatas: Barsukinės k. 8, Žeimių sen., Jonavos r. sav. (



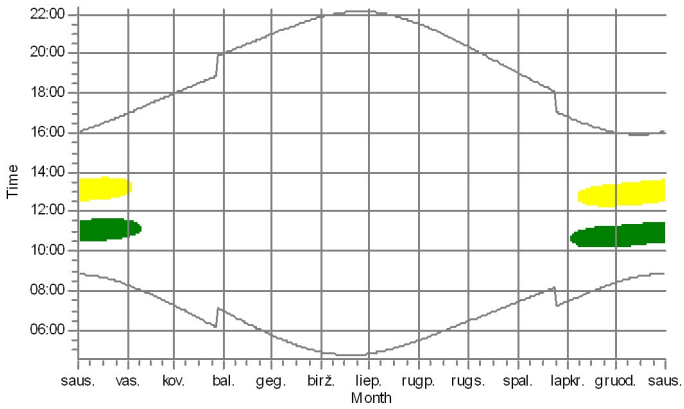
B: Gyvenamasis pastatas: Barsukinės k. 6, Žeimių sen., Jonavos r. sav. (



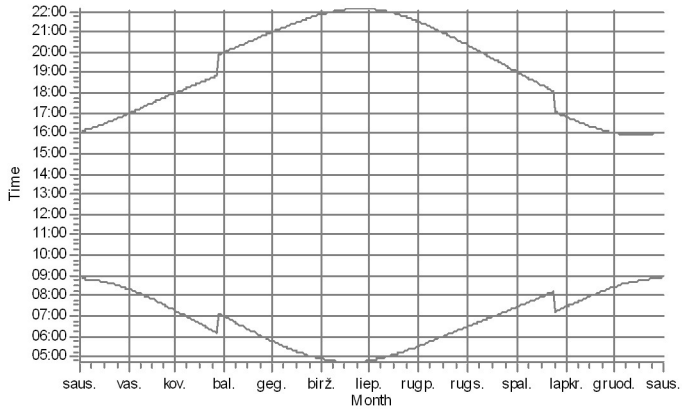
C: Gyvenamasis pastatas: Barsukinės k. 4, Žeimių sen., Jonavos r. sav. (



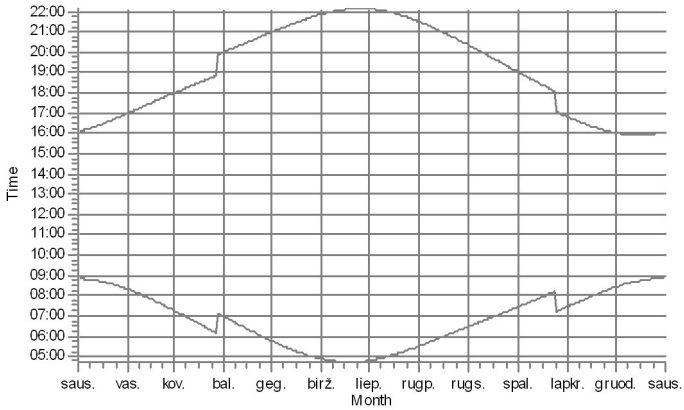
D: Gyvenamasis pastatas: Neturi adreso (4)



E: Gyvenamasis pastatas: Neturi adreso (5)



F: Gyvenamasis pastatas: Neturi adreso (6)



WTGs

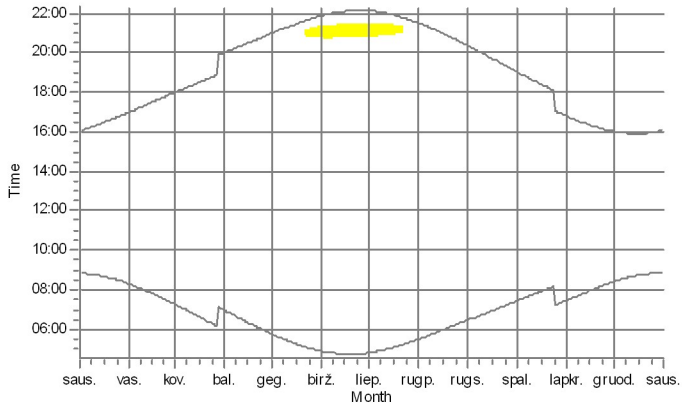
1: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)

2: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)

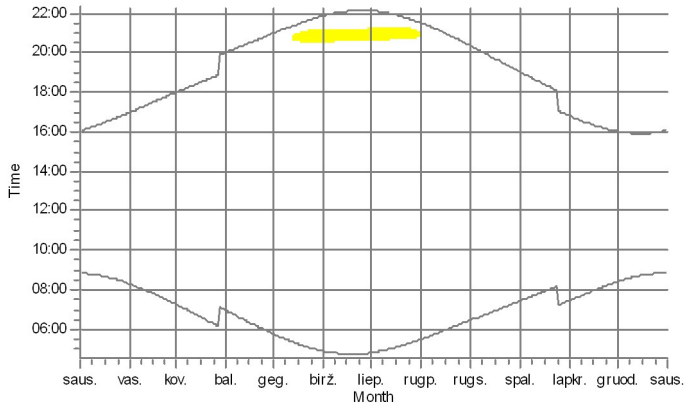
SHADOW - Calendar, graphical

Calculation: Suminis: Planuojamos+Foninės

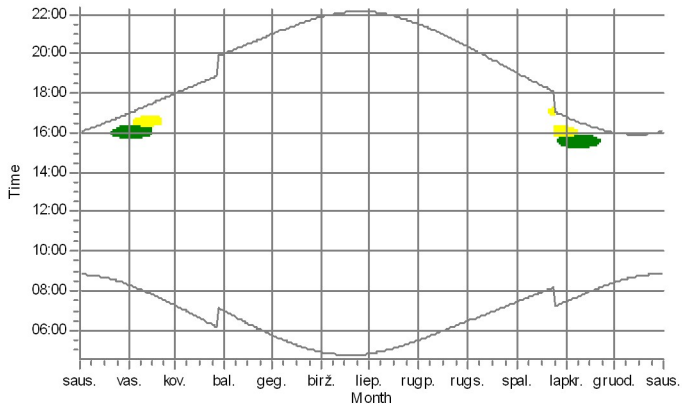
G: Gyvenamasis pastatas: Šviesos g. 1A, Naujasodžio k., Žeimių sen., Jo



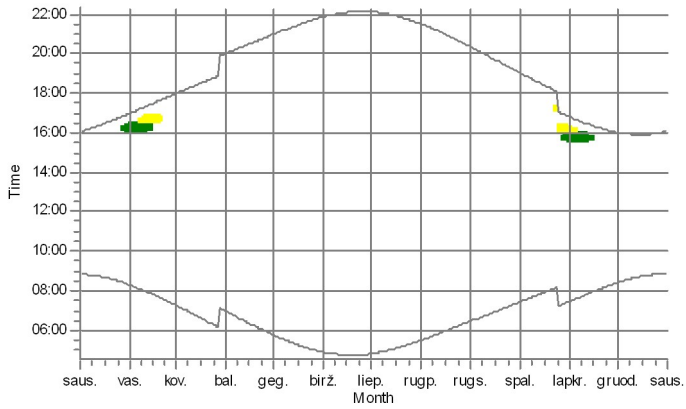
H: Gyvenamasis pastatas: Šviesos g. 2, Naujasodžio k., Žeimių sen., Jona



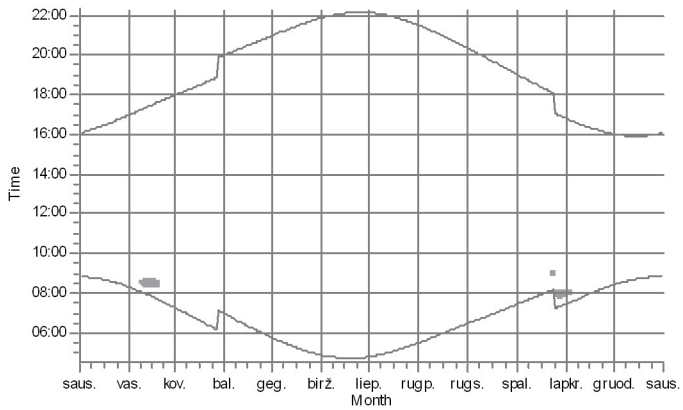
I: Gyvenamasis pastatas: Barsukinės k. 2, Žeimių sen., Jonavos r. sav. (9



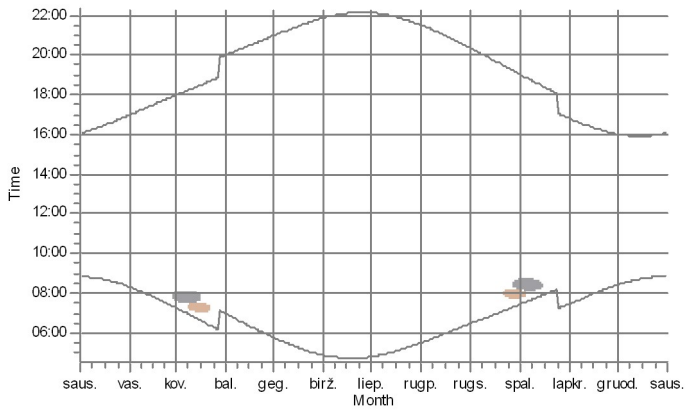
J: Gyvenamasis pastatas: Barsukinės k. 1, Žeimių sen., Jonavos r. sav. (



K: Gyvenamasis pastatas: Paduobių k. 4, Žeimių sen., Jonavos r. sav. (11



L: Gyvenamasis pastatas: Paduobių k. 7, Žeimių sen., Jonavos r. sav. (12



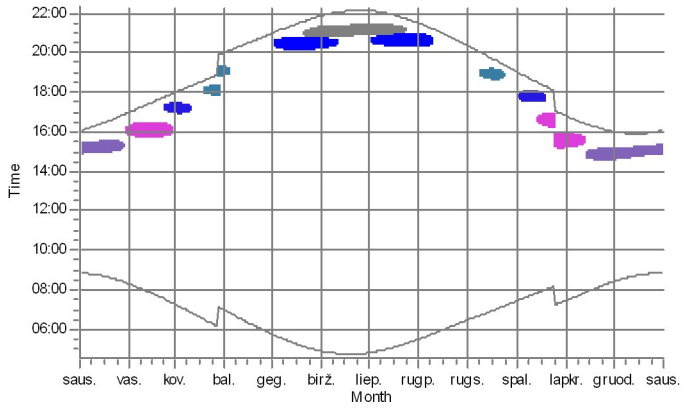
WTGs

1: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)
2: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)
16: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (6)
17: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (7)

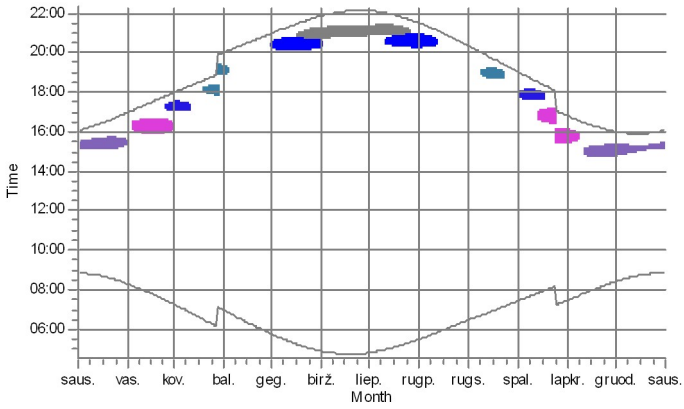
SHADOW - Calendar, graphical

Calculation: Suminis: Planuojamos+Foninės

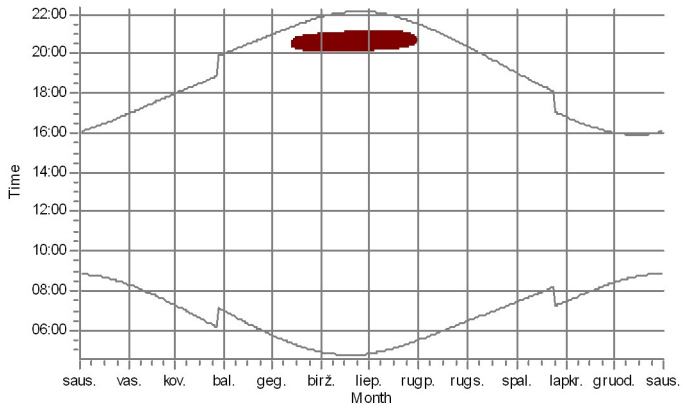
M: Gyvenamasis pastatas: Blauzdžių k. 14, Žeimių sen., Jonavos r. sav. (



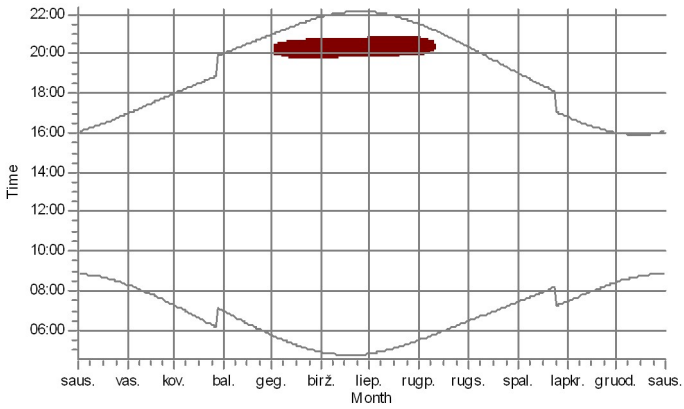
N: Gyvenamasis pastatas: Blauzdžių k. 12, Žeimių sen., Jonavos r. sav. (



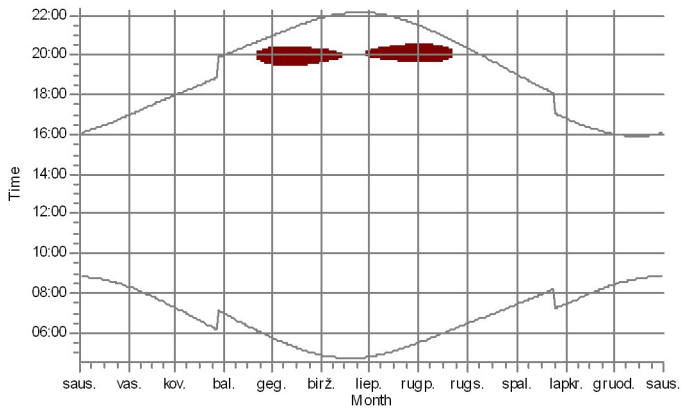
O: Gyvenamasis pastatas: Aklių k. 3, Žeimių sen., Jonavos r. sav. (15)



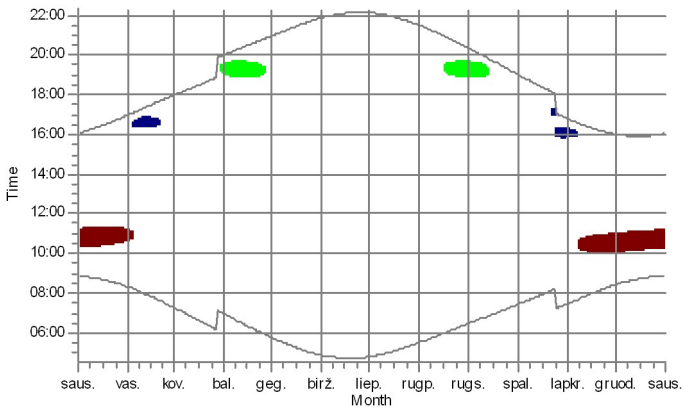
P: Gyvenamasis pastatas: Aklių k. 2, Žeimių sen., Jonavos r. sav. (16)



Q: Gyvenamasis pastatas: Aklių k. 5, Žeimių sen., Jonavos r. sav. (17)



R: Gyvenamasis pastatas: Aklių k. 8, Žeimių sen., Jonavos r. sav. (18)



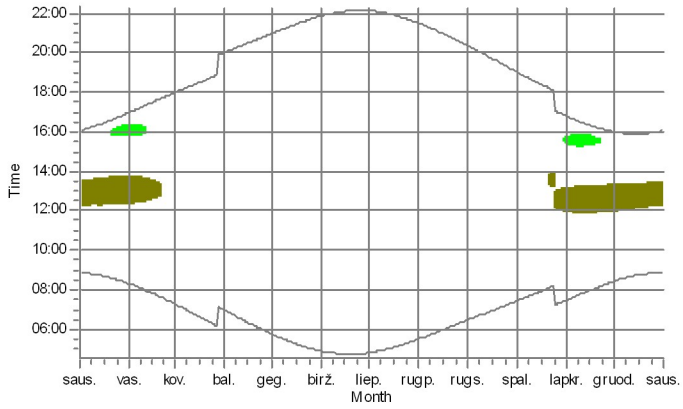
WTGs

3: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (17)
4: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (18)
7: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (21)
8: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)
9: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)
34: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (24)
35: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (25)
36: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (26)
37: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (27)

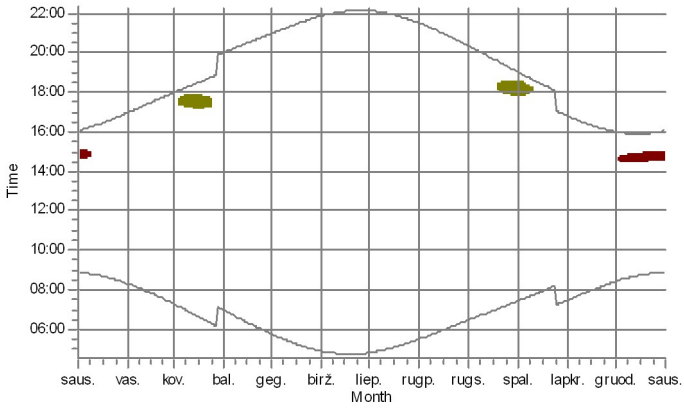
SHADOW - Calendar, graphical

Calculation: Suminis: Planuojamos+Foninės

S: Gyvenamasis pastatas: Normainėlių k. 1, Žeimių sen., Jonavos r. sav. (



T: Gyvenamasis pastatas: Normainėlių I k. 3, Žeimių sen., Jonavos r. sav.



WTGs

8: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)

9: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)

10: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (25)

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninës WTG: 1 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June
1	08:50 10:33-11:56/83	08:17 15:48-16:25/37	07:17	06:58	05:46	04:53
	16:05	16:59 10:44-11:53/69	17:58	20:00	20:58	21:52
2	08:50 10:33-11:56/83	08:16 15:48-16:27/39	07:14	06:56	05:44	04:52
	16:06	17:01 10:45-11:52/67	18:00	20:02	21:00	21:53
3	08:50 10:33-11:57/84	08:14 15:49-16:28/39	07:12	06:53	05:41	04:51
	16:07	17:03 10:45-11:50/65	18:02	20:04	21:02	21:54
4	08:49 10:33-11:57/84	08:12 15:49-16:29/40	07:09	06:51	05:39	04:50
	16:09	17:05 10:45-11:49/64	18:04	20:06	21:04	21:56
5	08:49 10:34-11:58/84	08:10 15:49-16:29/40	07:07	06:48	05:37	04:49
	16:10	17:07 10:46-11:47/61	18:06	20:07	21:06	21:57
6	08:49 10:34-11:58/84	08:08 15:50-16:29/39	07:04	06:46	05:35	04:48
	16:11	17:09 10:47-11:46/59	18:08	20:09	21:08	21:58
7	08:48 10:34-11:58/84	08:06 15:50-16:29/39	07:02	06:43	05:33	04:48
	16:13	17:12 10:48-11:44/56	18:10	20:11	21:10	21:59
8	08:48 10:35-11:59/84	08:04 15:51-16:29/38	06:59	06:41	05:31	04:47
	16:14	17:14 10:49-11:42/53	18:12	20:13	21:12	22:00
9	08:47 10:36-12:00/84	08:02 15:52-16:29/37	06:57	06:38	05:29	04:46
	16:16	17:16 10:50-11:41/51	18:14	20:15	21:14	22:01
10	08:46 10:36-12:00/84	08:00 15:53-16:27/34	06:54	06:36	05:27	04:46
	16:17	17:18 10:51-11:39/48	18:16	20:17	21:16	22:02
11	08:45 10:36-12:00/84	07:58 15:54-16:27/33	06:52	06:33	05:25	04:45
	16:19	17:20 10:52-11:38/46	18:18	20:19	21:17	22:03
12	08:45 10:37-12:01/84	07:56 15:56-16:26/30	06:49	06:31	05:23	04:45
	16:20	17:22 10:54-11:36/42	18:20	20:21	21:19	22:03
13	08:44 10:36-12:00/84	07:54 16:12-16:24/12 10:56-11:35/39	06:47	06:28	05:21	04:44
	16:22	17:24 15:59-16:10/11	18:22	20:23	21:21	22:04
14	08:43 10:37-12:00/83	07:51 16:16-16:19/3	06:44	06:26	05:19	04:44
	16:24	17:26 10:58-11:31/33	18:24	20:25	21:23	22:05
15	08:42 10:38-12:01/83	07:49 11:01-11:29/28	06:42	06:23	05:18	04:44
	16:26	17:29	18:26	20:27	21:25	22:06
16	08:41 10:38-12:01/83	07:47 11:05-11:25/20	06:39	06:21	05:16	04:44
	16:27	17:31	18:28	20:29	21:27	22:06
17	08:40 10:38-12:01/83	07:45 11:14-11:15/1	06:37	06:18	05:14	04:43
	16:29	17:33	18:30	20:31	21:28	22:07
18	08:38 10:39-12:01/82	07:43	06:34	06:16	05:12	04:43
	16:31	17:35	18:32	20:33	21:30	22:07
19	08:37 10:39-12:01/82	07:40	06:32	06:13	05:11	04:43
	16:33	17:37	18:34	20:35	21:32	22:08
20	08:36 10:40-12:01/81	07:38	06:29	06:11	05:09	04:43
	16:35	17:39	18:36	20:37	21:33	22:08
21	08:35 15:58-16:00/2	07:36	06:27	06:09	05:07	04:43
	16:37 10:40-12:01/81	17:41	18:38	20:39	21:35	22:08
22	08:33 15:55-16:03/8	07:33	06:24	06:06	05:06	04:44
	16:39 10:41-12:01/80	17:43	18:40	20:41	21:37	22:08
23	08:32 15:53-16:05/12	07:31	06:21	06:04	05:04	04:44
	16:41 10:40-12:00/80	17:45	18:42	20:43	21:38	22:08
24	08:30 15:52-16:07/15	07:29	06:19	06:02	05:03	04:44
	16:43 10:40-12:00/80	17:47	18:44	20:45	21:40	22:09
25	08:29 15:52-16:10/18	07:26	06:16	05:59	05:01	04:45
	16:45 10:41-12:00/79	17:50	18:46	20:47	21:42	22:09
26	08:27 15:51-16:12/21	07:24	06:14	05:57	05:00	04:45
	16:47 10:41-11:59/78	17:52	18:48	20:49	21:43	22:09
27	08:26 15:50-16:14/24	07:22	06:11	05:55	04:59	04:45
	16:49 10:42-11:58/76	17:54	18:50	20:51	21:45	22:08
28	08:24 15:49-16:16/27	07:19	06:09	05:52	04:57	04:46
	16:51 10:42-11:57/75	17:56	18:52	20:53	21:46	22:08
29	08:23 15:49-16:18/29		07:06	05:50	04:56	04:47
	16:53 10:42-11:56/74		19:54	20:55	21:48	22:08
30	08:21 15:49-16:21/32		07:03	05:48	04:55	04:47
	16:55 10:42-11:55/73		19:56	20:56	21:49	22:08
31	08:19 15:48-16:23/35		07:01		04:54	
	16:57 10:44-11:55/71		19:58		21:50	
Potential sun hours	243	270	366	423	500	519
Sum of minutes with flicker	2737	1273	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 1 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October		November		December	
1	04:48	05:30	06:28	07:25		07:26	15:22-15:57/35	08:25	10:18-11:42/84
	22:07	21:29	20:19	19:02		16:48	10:20-11:09/49	16:01	
2	04:49	05:32	06:30	07:27		07:28	15:21-15:58/37	08:26	10:18-11:42/84
	22:07	21:27	20:17	19:00		16:46	10:20-11:11/51	16:00	
3	04:50	05:34	06:32	07:29		07:31	15:21-15:59/38	08:28	10:19-11:43/84
	22:06	21:26	20:14	18:57		16:44	10:19-11:12/53	15:59	
4	04:50	05:36	06:34	07:31		07:33	15:20-15:59/39	08:29	10:20-11:43/83
	22:06	21:24	20:12	18:55		16:42	10:18-11:14/56	15:59	
5	04:51	05:38	06:36	07:32		07:35	15:19-15:59/40	08:31	10:19-11:43/84
	22:05	21:22	20:09	18:52		16:40	10:17-11:16/59	15:58	
6	04:52	05:40	06:38	07:34		07:37	15:20-15:59/39	08:32	10:20-11:44/84
	22:05	21:20	20:07	18:50		16:38	10:17-11:18/61	15:57	
7	04:53	05:41	06:40	07:36		07:39	15:20-15:59/39	08:34	10:21-11:45/84
	22:04	21:17	20:04	18:47		16:36	10:16-11:20/64	15:57	
8	04:54	05:43	06:41	07:38		07:41	15:19-15:59/40	08:35	10:21-11:45/84
	22:03	21:15	20:02	18:45		16:34	10:15-11:21/66	15:56	
9	04:56	05:45	06:43	07:40		07:43	15:19-15:58/39	08:36	10:21-11:45/84
	22:02	21:13	19:59	18:42		16:32	10:15-11:22/67	15:56	
10	04:57	05:47	06:45	07:42		07:45	15:20-15:57/37	08:38	10:23-11:46/83
	22:01	21:11	19:57	18:40		16:31	10:15-11:24/69	15:55	
11	04:58	05:49	06:47	07:44		07:47	15:20-15:55/35	08:39	10:23-11:46/83
	22:00	21:09	19:54	18:37		16:29	10:15-11:25/70	15:55	
12	04:59	05:51	06:49	07:46		07:49	15:21-15:52/31	08:40	10:23-11:46/83
	21:59	21:07	19:51	18:35		16:27	10:14-11:27/73	15:55	
13	05:00	05:53	06:51	07:48		07:51	15:21-15:50/29	08:41	10:24-11:46/82
	21:58	21:05	19:49	18:32		16:25	10:14-11:28/74	15:55	
14	05:02	05:54	06:53	07:50		07:53	15:21-15:48/27	08:42	10:24-11:47/83
	21:57	21:02	19:46	18:30		16:23	10:15-11:30/75	15:55	
15	05:03	05:56	06:55	07:52		07:55	15:23-15:47/24	08:43	10:24-11:47/83
	21:56	21:00	19:44	18:27		16:22	10:15-11:31/76	15:55	
16	05:05	05:58	06:56	07:54		07:57	15:24-15:45/21	08:44	10:25-11:48/83
	21:55	20:58	19:41	18:25		16:20	10:14-11:32/78	15:55	
17	05:06	06:00	06:58	07:56		07:59	15:25-15:43/18	08:45	10:26-11:48/82
	21:54	20:56	19:39	18:23		16:18	10:14-11:33/79	15:55	
18	05:07	06:02	07:00	07:58		08:01	15:26-15:41/15	08:46	10:26-11:49/83
	21:52	20:53	19:36	18:20		16:17	10:14-11:34/80	15:55	
19	05:09	06:04	07:02	08:00		08:03	15:27-15:39/12	08:46	10:27-11:50/83
	21:51	20:51	19:33	18:18		16:15	10:15-11:35/80	15:55	
20	05:10	06:06	07:04	08:02		08:05	15:30-15:38/8	08:47	10:27-11:49/82
	21:50	20:49	19:31	18:15		16:14	10:16-11:36/80	15:56	
21	05:12	06:08	07:06	08:04		08:07	15:34-15:36/2	08:48	10:28-11:50/82
	21:48	20:46	19:28	18:13		16:12	10:16-11:37/81	15:56	
22	05:14	06:09	07:08	08:06		08:09	10:16-11:37/81	08:48	10:28-11:50/82
	21:47	20:44	19:26	18:11		16:11		15:56	
23	05:15	06:11	07:10	08:08		08:10	10:16-11:38/82	08:49	10:29-11:51/82
	21:45	20:41	19:23	18:08		16:10		15:57	
24	05:17	06:13	07:11	08:10		08:12	10:16-11:38/82	08:49	10:29-11:52/83
	21:43	20:39	19:20	18:06		16:08		15:58	
25	05:18	06:15	07:13	07:12	10:39-10:50/11	08:14	10:16-11:39/83	08:50	10:29-11:52/83
	21:42	20:37	19:18	17:04		16:07		15:58	
26	05:20	06:17	07:15	07:14	10:33-10:56/23	08:16	10:16-11:39/83	08:50	10:31-11:53/82
	21:40	20:34	19:15	17:02		16:06		15:59	
27	05:22	06:19	07:17	07:16	10:30-10:59/29	08:18	10:17-11:40/83	08:50	10:31-11:54/83
	21:38	20:32	19:13	16:59		16:05		16:00	
28	05:23	06:21	07:19	07:18	15:44-15:50/6 10:27-11:02/35	08:20	10:17-11:41/84	08:50	10:31-11:54/83
	21:37	20:29	19:10	16:57	15:33-15:34/1	16:04		16:01	
29	05:25	06:23	07:21	07:20	15:41-15:54/13 10:25-11:05/40	08:21	10:17-11:41/84	08:50	10:32-11:55/83
	21:35	20:27	19:08	16:55	15:28-15:40/12	16:03		16:01	
30	05:27	06:25	07:23	07:22	15:25-15:55/30	08:23	10:18-11:42/84	08:50	10:31-11:54/83
	21:33	20:24	19:05	16:53	10:23-11:06/43	16:02		16:02	
31	05:29	06:26		07:24	15:23-15:56/33			08:50	10:32-11:55/83
	21:31	20:22		16:51	10:22-11:08/46			16:03	
Potential sun hours	520	464	383	326		253		225	
Sum of minutes with flicker	0	0	0	322		2792		2574	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 2 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June
1	08:50 12:36-14:02/86 16:05	08:17 13:04-14:13/69 16:59	07:17 17:58	06:58 20:00	05:46 20:58	04:53 20:37-21:15/38 21:52
2	08:50 12:36-14:02/86 16:06	08:16 13:07-14:13/66 17:01	07:14 18:00	06:56 20:02	05:44 21:00	04:52 20:37-21:16/39 21:53
3	08:50 12:37-14:03/86 16:07	08:14 13:14-14:11/57 17:03	07:12 18:02	06:53 20:04	05:41 21:02	04:51 20:37-21:16/39 21:54
4	08:50 12:37-14:04/87 16:09	08:12 16:29-16:32/3 17:05 13:15-14:11/56	07:09 18:04	06:51 20:06	05:39 21:04	04:50 20:38-21:17/39 21:56
5	08:49 12:38-14:05/87 16:10	08:10 16:27-16:35/8 17:07 13:16-14:10/54	07:07 18:06	06:48 20:08	05:37 21:06	04:49 20:38-21:18/40 21:57
6	08:49 12:38-14:05/87 16:11	08:08 16:26-16:37/11 17:09 13:17-14:10/53	07:05 18:08	06:46 20:09	05:35 21:08	04:48 20:38-21:18/40 21:58
7	08:48 12:38-14:06/88 16:13	08:06 16:25-16:40/15 17:12 13:19-14:09/50	07:02 18:10	06:43 20:11	05:33 21:10	04:48 20:39-21:18/39 21:59
8	08:48 12:40-14:06/86 16:14	08:04 16:25-16:42/17 17:14 13:20-14:08/48	07:00 18:12	06:41 20:13	05:31 21:12	04:47 20:39-21:18/39 22:00
9	08:47 12:40-14:07/87 16:16	08:02 16:24-16:45/21 17:16 13:22-14:07/45	06:57 18:14	06:38 20:15	05:29 21:14	04:46 20:40-21:19/39 22:01
10	08:46 12:40-14:08/88 16:17	08:00 16:23-16:46/23 17:18 13:23-14:04/41	06:55 18:16	06:36 20:17	05:27 21:16	04:46 20:39-21:19/40 22:02
11	08:45 12:41-14:09/88 16:19	07:58 16:23-16:49/26 17:20 13:25-14:03/38	06:52 18:18	06:33 20:19	05:25 21:17	04:45 20:40-21:19/39 22:03
12	08:45 12:42-14:09/87 16:20	07:56 16:24-16:51/27 17:22 13:28-14:01/33	06:49 18:20	06:31 20:21	05:23 21:19	04:45 20:41-21:20/39 22:03
13	08:44 12:41-14:09/88 16:22	07:54 16:24-16:53/29 17:24 13:31-13:58/27	06:47 18:22	06:28 20:23	05:21 21:21	04:44 20:40-21:19/39 22:04
14	08:43 12:42-14:10/88 16:24	07:51 16:24-16:52/28 17:26 13:35-13:54/19	06:44 18:24	06:26 20:25	05:19 20:44-20:50/6 21:23	04:44 20:41-21:20/39 22:05
15	08:42 12:43-14:10/87 16:26	07:49 16:24-16:52/28 17:29	06:42 18:26	06:23 20:27	05:18 20:41-20:51/10 21:25	04:44 20:41-21:20/39 22:06
16	08:41 12:44-14:11/87 16:27	07:47 16:26-16:51/25 17:31	06:39 18:28	06:21 20:29	05:16 20:41-20:53/12 21:27	04:44 20:42-21:20/38 22:06
17	08:40 12:44-14:11/87 16:29	07:45 16:26-16:50/24 17:33	06:37 18:30	06:18 20:31	05:14 20:39-20:54/15 21:28	04:43 20:42-21:21/39 22:07
18	08:38 12:45-14:12/87 16:31	07:43 16:28-16:49/21 17:35	06:34 18:32	06:16 20:33	05:12 20:39-20:56/17 21:30	04:43 20:43-21:21/38 22:07
19	08:37 12:45-14:11/86 16:33	07:40 16:30-16:47/17 17:37	06:32 18:34	06:13 20:35	05:11 20:38-20:57/19 21:32	04:43 20:43-21:21/38 22:08
20	08:36 12:46-14:12/86 16:35	07:38 17:39	06:29 18:36	06:11 20:37	05:09 20:37-20:59/22 21:34	04:43 20:43-21:21/38 22:08
21	08:35 12:47-14:12/85 16:37	07:36 17:41	06:27 18:38	06:09 20:39	05:07 20:36-21:00/24 21:35	04:43 20:43-21:21/38 22:08
22	08:33 12:48-14:13/85 16:39	07:33 17:43	06:24 18:40	06:06 20:41	05:06 20:36-21:02/26 21:37	04:44 20:44-21:22/38 22:08
23	08:32 12:49-14:13/84 16:41	07:31 17:45	06:21 18:42	06:04 20:43	05:04 20:37-21:04/27 21:38	04:44 20:44-21:22/38 22:08
24	08:30 12:49-14:13/84 16:43	07:29 17:47	06:19 18:44	06:02 20:45	05:03 20:37-21:06/29 21:40	04:44 20:44-21:22/38 22:09
25	08:29 12:51-14:14/83 16:45	07:26 17:50	06:16 18:46	05:59 20:47	05:01 20:36-21:06/30 21:42	04:45 20:44-21:23/39 22:09
26	08:27 12:52-14:13/81 16:47	07:24 17:52	06:14 18:48	05:57 20:49	05:00 20:36-21:08/32 21:43	04:45 20:44-21:23/39 22:09
27	08:26 12:53-14:13/80 16:49	07:22 17:54	06:11 18:50	05:55 20:51	04:59 20:36-21:09/33 21:45	04:45 20:45-21:23/38 22:08
28	08:24 12:54-14:13/79 16:51	07:19 17:56	06:09 18:52	05:52 20:53	04:57 20:36-21:11/35 21:46	04:46 20:44-21:23/39 22:08
29	08:23 12:56-14:13/77 16:53		07:06 19:54	05:50 20:55	04:56 20:36-21:12/36 21:48	04:47 20:45-21:24/39 22:08
30	08:21 12:58-14:13/75 16:55		07:03 19:56	05:48 20:56	04:55 20:37-21:13/36 21:49	04:47 20:44-21:23/39 22:08
31	08:19 13:01-14:13/72 16:57		07:01 19:58		04:54 20:37-21:14/37 21:50	
Potential sun hours	243	270	366	423	500	519
Sum of minutes with flicker	2624	979	0	0	446	1163

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninës WTG: 2 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October	November	December
1	04:48 20:44-21:24/40 22:07	05:31 21:29	06:28 20:19	07:25 19:02	07:26 15:53-16:15/22 16:48 12:52-13:34/42	08:25 12:23-13:51/88 16:01
2	04:49 20:45-21:24/39 22:07	05:32 21:28	06:30 20:17	07:27 19:00	07:29 15:53-16:13/20 16:46 12:51-13:37/46	08:26 12:23-13:50/87 16:00
3	04:50 20:45-21:24/39 22:07	05:34 21:26	06:32 20:14	07:29 18:57	07:31 15:55-16:11/16 16:44 12:50-13:38/48	08:28 12:23-13:51/88 15:59
4	04:50 20:44-21:24/40 22:06	05:36 21:24	06:34 20:12	07:31 18:55	07:33 15:55-16:09/14 16:42 12:48-13:39/51	08:29 12:24-13:51/87 15:59
5	04:51 20:44-21:24/40 22:05	05:38 21:22	06:36 20:09	07:33 18:52	07:35 15:56-16:07/11 16:40 12:47-13:39/52	08:31 12:23-13:51/88 15:58
6	04:52 20:44-21:24/40 22:05	05:40 21:20	06:38 20:07	07:34 18:50	07:37 15:58-16:05/7 16:38 12:47-13:41/54	08:32 12:24-13:51/87 15:57
7	04:53 20:44-21:24/40 22:04	05:41 21:18	06:40 20:04	07:36 18:47	07:39 16:00-16:03/3 16:36 12:46-13:42/56	08:34 12:25-13:52/87 15:57
8	04:54 20:44-21:24/40 22:03	05:43 21:15	06:41 20:02	07:38 18:45	07:41 12:44-13:42/58 16:34	08:35 12:25-13:52/87 15:56
9	04:56 20:44-21:24/40 22:02	05:45 21:13	06:43 19:59	07:40 18:42	07:43 12:37-13:43/66 16:32	08:36 12:25-13:52/87 15:56
10	04:57 20:44-21:24/40 22:01	05:47 21:11	06:45 19:57	07:42 18:40	07:45 12:34-13:44/70 16:31	08:38 12:26-13:53/87 15:55
11	04:58 20:44-21:23/39 22:00	05:49 21:09	06:47 19:54	07:44 18:37	07:47 12:32-13:44/72 16:29	08:39 12:26-13:53/87 15:55
12	04:59 20:45-21:23/38 21:59	05:51 21:07	06:49 19:51	07:46 18:35	07:49 12:29-13:45/76 16:27	08:40 12:26-13:53/87 15:55
13	05:00 20:45-21:22/37 21:58	05:53 21:05	06:51 19:49	07:48 18:32	07:51 12:28-13:45/77 16:25	08:41 12:27-13:53/86 15:55
14	05:02 20:45-21:21/36 21:57	05:54 21:02	06:53 19:46	07:50 18:30	07:53 12:27-13:46/79 16:23	08:42 12:27-13:53/86 15:55
15	05:03 20:45-21:20/35 21:56	05:56 21:00	06:55 19:44	07:52 18:27	07:55 12:26-13:46/80 16:22	08:43 12:28-13:53/85 15:55
16	05:05 20:46-21:19/33 21:55	05:58 20:58	06:56 19:41	07:54 18:25	07:57 12:25-13:46/81 16:20	08:44 12:28-13:54/86 15:55
17	05:06 20:45-21:18/33 21:54	06:00 20:56	06:58 19:39	07:56 18:23	07:59 12:24-13:47/83 16:19	08:45 12:29-13:54/85 15:55
18	05:07 20:45-21:16/31 21:52	06:02 20:53	07:00 19:36	07:58 18:20	08:01 12:23-13:47/84 16:17	08:46 12:29-13:55/86 15:55
19	05:09 20:46-21:16/30 21:51	06:04 20:51	07:02 19:33	08:00 18:18	08:03 12:24-13:48/84 16:15	08:46 12:30-13:56/86 15:55
20	05:10 20:46-21:14/28 21:50	06:06 20:49	07:04 19:31	08:02 18:15	08:05 12:23-13:48/85 16:14	08:47 12:30-13:55/85 15:56
21	05:12 20:46-21:13/27 21:48	06:08 20:46	07:06 19:28	08:04 18:13	08:07 12:23-13:48/85 16:13	08:48 12:31-13:56/85 15:56
22	05:14 20:47-21:12/25 21:47	06:09 20:44	07:08 19:26	08:06 17:02-17:08/6 18:11	08:09 12:22-13:48/86 16:11	08:48 12:31-13:56/85 15:56
23	05:15 20:47-21:10/23 21:45	06:11 20:41	07:10 19:23	08:08 16:59-17:17/18 18:08	08:11 12:22-13:49/87 16:10	08:49 12:32-13:57/85 15:57
24	05:17 20:48-21:09/21 21:43	06:13 20:39	07:12 19:20	08:10 16:57-17:19/22 18:06	08:12 12:22-13:49/87 16:09	08:49 12:32-13:57/85 15:58
25	05:18 20:48-21:07/19 21:42	06:15 20:37	07:13 19:18	07:12 15:56-16:20/24 17:04	08:14 12:22-13:49/87 16:07	08:50 12:32-13:58/86 15:58
26	05:20 20:49-21:06/17 21:40	06:17 20:34	07:15 19:15	07:14 15:55-16:21/26 17:02	08:16 12:22-13:49/87 16:06	08:50 12:34-13:59/85 15:59
27	05:22 20:50-21:04/14 21:38	06:19 20:32	07:17 19:13	07:16 15:54-16:21/27 16:59 13:11-13:18/7	08:18 12:22-13:49/87 16:05	08:50 12:34-14:00/86 16:00
28	05:24 20:51-21:03/12 21:37	06:21 20:29	07:19 19:10	07:18 15:53-16:21/28 16:57 13:03-13:24/21	08:20 12:22-13:50/88 16:04	08:50 12:34-14:00/86 16:01
29	05:25 20:53-21:02/9 21:35	06:23 20:27	07:21 19:08	07:20 15:54-16:22/28 16:55 13:00-13:29/29	08:21 12:22-13:50/88 16:03	08:50 12:35-14:01/86 16:02
30	05:27 20:55-20:59/4 21:33	06:25 20:24	07:23 19:05	07:22 15:53-16:20/27 16:53 12:57-13:31/34	08:23 12:23-13:50/87 16:02	08:50 12:34-14:00/86 16:02
31	05:29 21:31	06:26 20:22		07:24 15:53-16:18/25 16:51 12:55-13:33/38		08:50 12:35-14:01/86 16:04
Potential sun hours	520	464	383	326	253	225
Sum of minutes with flicker	909	0	0	360	2306	2673

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninës WTG: 3 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45 20:24-20:27/3	04:52 20:18-20:40/22	04:47	05:30 20:21-20:53/32	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43 20:20-20:29/9	04:51 20:20-20:40/20	04:48	05:32 20:22-20:53/31	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:13	07:12	06:53	05:41 20:18-20:31/13	04:50 20:21-20:39/18	04:49 20:33-20:39/6	05:33 20:22-20:52/30	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39 20:16-20:33/17	04:49 20:21-20:39/18	04:50 20:32-20:41/9	05:35 20:22-20:51/29	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37 20:15-20:34/19	04:48 20:22-20:38/16	04:51 20:31-20:42/11	05:37 20:23-20:49/26	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:34 20:14-20:36/22	04:48 20:24-20:38/14	04:52 20:30-20:44/14	05:39 20:23-20:47/24	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32 20:13-20:38/25	04:47 20:24-20:37/13	04:53 20:30-20:45/15	05:41 20:24-20:45/21	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30 20:12-20:39/27	04:46 20:26-20:36/10	04:54 20:29-20:46/17	05:43 20:25-20:43/18	06:41	07:38	07:41	08:35
	16:13	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28 20:12-20:41/29	04:46 20:27-20:35/8	04:55 20:28-20:47/19	05:44 20:25-20:41/16	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26 20:11-20:42/31	04:45 20:30-20:33/3	04:56 20:28-20:47/19	05:46 20:27-20:39/12	06:45	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24 20:12-20:43/31	04:44	04:57 20:27-20:48/21	05:48 20:30-20:37/7	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22 20:11-20:43/32	04:44	04:58 20:27-20:49/22	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21 20:11-20:43/32	04:44	05:00 20:26-20:49/23	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19 20:10-20:43/33	04:43	05:01 20:25-20:50/25	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17 20:11-20:44/33	04:43	05:02 20:26-20:51/25	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15 20:11-20:43/32	04:43	05:04 20:25-20:51/26	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:19	15:54
17	08:39	07:45	06:36	06:18	05:13 20:12-20:44/32	04:43	05:05 20:24-20:51/27	05:59	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:53	20:55	19:38	18:22	16:18	15:54
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	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10 20:12-20:44/32	04:43	05:08 20:24-20:53/29	06:03	07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
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	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
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	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05 20:14-20:44/30	04:43	05:13 20:23-20:53/30	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:10	15:56
23	08:32	07:31	06:21	06:03	05:04 20:13-20:43/30	04:43	05:14 20:23-20:54/31	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02 20:14-20:43/29	04:43	05:16 20:22-20:54/32	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01 20:15-20:43/28	04:44	05:18 20:22-20:54/32	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:56	04:59 20:15-20:43/28	04:44	05:19 20:22-20:54/32	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11	05:54	04:58 20:15-20:42/27	04:45	05:21 20:22-20:54/32	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57 20:16-20:42/26	04:45	05:23 20:21-20:54/33	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56 20:16-20:41/25	04:46	05:25 20:21-20:54/33	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54 20:17-20:41/24	04:47	05:26 20:22-20:54/32	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53 20:18-20:40/22		05:28 20:21-20:53/32	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	0	0	816	142	715	246	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninës WTG: 4 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52 20:49-21:15/26	04:47 20:57-21:22/25	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51 20:50-21:17/27	04:48 20:57-21:22/25	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:13	07:12	06:53	05:41	04:50 20:50-21:17/27	04:49 20:57-21:23/26	05:33	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49 20:50-21:17/27	04:50 20:57-21:23/26	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:48 20:50-21:17/27	04:51 20:57-21:24/27	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08	07:04	06:45	05:34	04:48 20:51-21:18/27	04:52 20:58-21:24/26	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47 20:51-21:17/26	04:53 20:58-21:24/26	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46 20:52-21:18/26	04:54 20:58-21:24/26	05:43	06:41	07:38	07:41	08:35
	16:13	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:45 20:52-21:18/26	04:55 20:58-21:24/26	05:44	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45 20:53-21:18/25	04:56 20:58-21:24/26	05:46	06:45	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24	04:44 20:52-21:18/26	04:57 20:58-21:24/26	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44 20:53-21:18/25	04:58 20:58-21:23/25	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21	04:44 20:53-21:19/26	05:00 20:58-21:22/24	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43 20:54-21:19/25	05:01 20:58-21:20/22	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43 20:54-21:18/24	05:02 20:59-21:20/21	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43 20:54-21:19/25	05:04 20:58-21:19/21	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:19	15:54
17	08:39	07:45	06:36	06:18	05:13	04:43 20:54-21:19/25	05:05 20:58-21:17/19	05:59	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12 20:54-20:56/2	04:43 20:55-21:19/24	05:07 20:59-21:17/18	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10 20:53-20:58/5	04:43 20:55-21:19/24	05:08 20:59-21:15/16	06:03	07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
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	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:35	07:35	06:26	06:08	05:07 20:51-21:01/10	04:43 20:56-21:20/24	05:11 21:01-21:13/12	06:07	07:05	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05 20:51-21:02/11	04:43 20:56-21:20/24	05:13 21:01-21:11/10	06:09	07:07	08:06	08:08	08:48
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23	08:32	07:31	06:21	06:03	05:04 20:50-21:03/13	04:43 20:56-21:20/24	05:14 21:02-21:10/8	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02 20:50-21:05/15	04:43 20:57-21:21/24	05:16 21:03-21:08/5	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01 20:50-21:07/17	04:44 20:56-21:21/25	05:18 21:04-21:07/3	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:46	21:42	22:09	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:56	04:59 20:50-21:08/18	04:44 20:56-21:21/25	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11	05:54	04:58 20:49-21:09/20	04:45 20:57-21:21/24	05:21	06:18	07:17	07:16	08:18	08:50
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	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54	16:02	16:01
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	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53 20:49-21:14/25		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	0	0	210	757	504	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 5 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:25
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:14	07:12	06:53	05:41	04:50	04:49	05:33	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:56	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:13	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:45	04:55	05:44	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:38
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24	04:44	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:54
12	08:45	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:19	15:54
17	08:40	07:45	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59	08:45
	16:28	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:35	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:10	16:10	15:56
23	08:32	07:31	06:21	06:03	05:04	04:43	05:14	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:09	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:09	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:50	20:50	21:45	22:08	21:38	20:32	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54	04:46	05:26	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 6 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:25
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:33	06:32	07:28	07:30	08:28
	16:07	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:56	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:36	04:48	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08	07:04	06:45	05:34	04:47	04:52	05:39	06:37	07:34	07:37	08:32
	16:10	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:13	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:55
9	08:47	08:02	06:57	06:38	05:28	04:45	04:55	05:44	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:38
	16:16	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24	04:44	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:19	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:54
12	08:45	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21	04:43	05:00	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:19	15:54
17	08:40	07:45	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59	08:45
	16:28	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:42	05:07	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:17	16:15	15:54
20	08:36	07:38	06:29	06:10	05:08	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:35	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:10	16:10	15:56
23	08:32	07:31	06:21	06:03	05:04	04:43	05:14	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:46	21:42	22:09	21:42	20:36	19:17	17:03	16:07	15:57
26	08:27	07:24	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:09	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:55	04:46	05:24	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	269	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 7 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26 15:56-16:15/19	08:25
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28 15:56-16:12/16	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:33	06:32	07:28	07:30 15:57-16:11/14	08:28
	16:06	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:58
4	08:49	08:12 16:31-16:32/1	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32 15:57-16:08/11	08:29
	16:08	17:05	18:03	20:05	21:04	21:56	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10 16:29-16:34/5	07:07	06:48	05:36	04:48	04:50	05:37	06:35	07:32	07:34 15:58-16:06/8	08:31
	16:09	17:07	18:05	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08 16:28-16:37/9	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34	07:37 15:59-16:04/5	08:32
	16:10	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:56
7	08:48	08:06 16:28-16:39/11	07:02	06:43	05:32	04:47	04:52	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04 16:27-16:42/15	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:13	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:55
9	08:47	08:02 16:26-16:43/17	06:57	06:38	05:28	04:45	04:55	05:44	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00 16:26-16:46/20	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:38
	16:16	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58 16:26-16:48/22	06:52	06:33	05:24	04:44	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:19	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:54
12	08:45	07:55 16:27-16:49/22	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53 16:26-16:48/22	06:47	06:28	05:20	04:43	05:00	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:43	07:51 16:27-16:48/21	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49 16:28-16:47/19	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:06	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47 16:28-16:46/18	06:39	06:20	05:15	04:43	05:04	05:57	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:19	15:54
17	08:40	07:45 16:30-16:45/15	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59	08:45
	16:28	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42 16:32-16:43/11	06:34	06:15	05:12	04:42	05:07	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40 16:35-16:39/4	06:31	06:13	05:10	04:42	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:08	21:51	20:51	19:33	18:17	16:15	15:54
20	08:36	07:38	06:29	06:10	05:08	04:42	05:10	06:05	07:03	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:35	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:09	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:47	20:44	19:25	18:10	16:10	15:56
23	08:32	07:31	06:21	06:03	05:04	04:43	05:14	06:11	07:09	08:08 17:04-17:11/7	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:13	07:11	08:10 17:01-17:13/12	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:09	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:14	07:13	07:12 15:59-16:15/16	08:14	08:50
	16:44	17:49	18:46	20:46	21:42	22:09	21:42	20:36	19:17	17:03	16:06	15:57
26	08:27	07:24	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14 15:58-16:16/18	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:09	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16 15:57-16:17/20	08:18	08:50
	16:48	17:53	18:49	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18 15:56-16:17/21	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:56	16:03	16:00
29	08:22		07:06	05:50	04:55	04:46	05:24	06:22	07:21	07:20 15:55-16:17/22	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22 15:56-16:18/22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24 15:56-16:17/21		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	269	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	232	0	0	0	0	0	0	0	159	73	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninës WTG: 8 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June
1	08:50 14:42-14:58/16	08:17 10:43-11:08/25	07:16	06:58	05:45 19:36-20:17/41	04:52 19:43-20:57/74
	16:04 10:21-11:11/50	16:58	17:57	19:59	20:58	21:52
2	08:50 14:42-14:57/15	08:15 10:45-11:06/21	07:14	06:55	05:43 19:35-20:16/41	04:51 19:44-20:57/73
	16:05 10:21-11:11/50	17:00	17:59	20:01	21:00	21:53
3	08:50 14:43-14:58/15	08:13 10:49-11:02/13	07:11	06:53	05:41 19:34-20:19/45	04:50 19:45-20:58/73
	16:06 10:22-11:12/50	17:02	18:01	20:03	21:02	21:54
4	08:49 14:44-14:57/13	08:11	07:09	06:50	05:38 19:33-20:23/50	04:49 19:46-20:58/72
	16:08 10:22-11:12/50	17:04	18:03	20:05	21:04	21:55
5	08:49 14:46-14:58/12	08:10	07:06	06:47	05:36 19:34-20:26/52	04:48 19:47-20:58/71
	16:09 10:23-11:13/50	17:07	18:05	20:07	21:06	21:57
6	08:48 14:47-14:57/10	08:08	07:04	06:45	05:34 19:33-20:28/55	04:47 19:47-20:58/71
	16:10 10:23-11:13/50	17:09	18:07	20:09	21:08	21:58
7	08:48 14:48-14:56/8	08:06	07:01	06:42	05:32 19:33-20:29/56	04:47 19:49-20:59/70
	16:12 10:23-11:13/50	17:11	18:09	20:11	21:10	21:59
8	08:47 14:51-14:54/3	08:04	06:59	06:40	05:30 19:33-20:30/57	04:46 19:50-20:59/69
	16:13 10:23-11:13/50	17:13	18:11	20:13	21:12	22:00
9	08:47 10:25-11:15/50	08:02	06:56	06:37	05:28 19:32-20:31/59	04:45 19:52-21:00/68
	16:15	17:15	18:13	20:15	21:13	22:01
10	08:46 10:25-11:15/50	08:00	06:54	06:35	05:26 19:32-20:32/60	04:45 19:52-21:00/68
	16:16	17:17	18:16	20:17	21:15	22:02
11	08:45 10:25-11:15/50	07:57	06:51	06:32	05:24 19:32-20:33/61	04:44 19:53-21:00/67
	16:18	17:19	18:18	20:19	21:17	22:03
12	08:44 10:25-11:15/50	07:55	06:49	06:30	05:22 19:33-20:34/61	04:44 19:53-21:01/68
	16:20	17:21	18:20	20:21	21:19	22:03
13	08:44 10:26-11:15/49	07:53	06:46	06:27	05:20 19:32-20:35/63	04:43 19:54-21:01/67
	16:21	17:24	18:22	20:23	21:21	22:04
14	08:43 10:26-11:16/50	07:51	06:44	06:25	05:18 19:32-20:37/65	04:43 19:54-21:01/67
	16:23	17:26	18:24	20:25	21:23	22:05
15	08:42 10:27-11:16/49	07:49	06:41	06:22	05:17 19:33-20:41/68	04:43 19:54-21:01/67
	16:25	17:28	18:26	20:27	21:25	22:05
16	08:41 10:28-11:17/49	07:47	06:39	06:20	05:15 19:33-20:43/70	04:42 19:54-21:02/68
	16:26	17:30	18:28	20:29	21:26	22:06
17	08:39 10:28-11:16/48	07:44	06:36	06:18	05:13 19:33-20:45/72	04:42 19:55-21:02/67
	16:28	17:32	18:30	20:31	21:28	22:07
18	08:38 10:29-11:17/48	07:42	06:34	06:15	05:11 19:34-20:47/73	04:42 19:55-21:02/67
	16:30	17:34	18:32	20:33	21:30	22:07
19	08:37 10:29-11:16/47	07:40	06:31	06:13	05:10 19:33-20:48/75	04:42 19:55-21:02/67
	16:32	17:36	18:34	20:35	21:32	22:07
20	08:36 10:30-11:17/47	07:38	06:29	06:10	05:08 19:34-20:49/75	04:42 19:55-21:02/67
	16:34	17:38	18:36	20:37	21:33	22:08
21	08:34 10:30-11:16/46	07:35	06:26	06:08	05:06 19:35-20:51/76	04:42 19:55-21:02/67
	16:36	17:40	18:37	20:39	21:35	22:08
22	08:33 10:31-11:17/46	07:33	06:23	06:06	05:05 19:35-20:51/76	04:43 19:56-21:03/67
	16:38	17:43	18:39	20:40	21:37	22:08
23	08:32 10:32-11:16/44	07:31	06:21	06:03 19:51-20:05/14	05:03 19:36-20:52/76	04:43 19:56-21:03/67
	16:40	17:45	18:41	20:42	21:38	22:08
24	08:30 10:32-11:16/44	07:28	06:18	06:01 19:47-20:08/21	05:02 19:37-20:53/76	04:43 19:56-21:03/67
	16:42	17:47	18:43	20:44	21:40	22:08
25	08:29 10:34-11:16/42	07:26	06:16	05:59 19:44-20:09/25	05:00 19:37-20:53/76	04:44 19:57-21:04/67
	16:44	17:49	18:45	20:46	21:41	22:08
26	08:27 10:35-11:15/40	07:24	06:13	05:56 19:42-20:11/29	04:59 19:38-20:54/76	04:44 19:56-21:04/68
	16:46	17:51	18:47	20:48	21:43	22:08
27	08:26 10:35-11:14/39	07:21	06:11	05:54 19:41-20:13/32	04:58 19:39-20:55/76	04:44 19:57-21:04/67
	16:48	17:53	18:49	20:50	21:45	22:08
28	08:24 10:36-11:13/37	07:19	06:08	05:52 19:39-20:14/35	04:56 19:39-20:55/76	04:45 19:57-21:04/67
	16:50	17:55	18:51	20:52	21:46	22:08
29	08:22 10:38-11:12/34		07:05	05:49 19:38-20:15/37	04:55 19:40-20:56/76	04:46 19:57-21:05/68
	16:52		19:53	20:54	21:47	22:08
30	08:21 10:39-11:11/32		07:03	05:47 19:37-20:16/39	04:54 19:41-20:56/75	04:46 19:57-21:04/67
	16:54		19:55	20:56	21:49	22:08
31	08:19 10:41-11:10/29		07:00		04:53 19:42-20:57/75	
	16:56		19:57		21:50	
Potential sun hours	242	269	366	423	501	519
Sum of minutes with flicker	1512	59	0	232	2033	2053

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninës WTG: 8 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October	November	December
1	04:47 19:57-21:05/68 22:07	05:30 19:43-20:44/61 21:29	06:28 20:19	07:24 19:02	07:26 16:48	08:24 10:08-10:58/50 16:00
2	04:48 19:57-21:05/68 22:07	05:31 19:42-20:43/61 21:27	06:29 20:16	07:26 18:59	07:28 16:46	08:26 10:07-10:57/50 15:59
3	04:49 19:57-21:05/68 22:06	05:33 19:42-20:42/60 21:25	06:31 20:14	07:28 18:57	07:30 16:43	08:28 10:08-10:58/50 15:58
4	04:49 19:57-21:06/69 22:06	05:35 19:43-20:41/58 21:23	06:33 20:11	07:30 18:54	07:32 16:41	08:29 14:36-14:39/3 15:58 10:08-10:58/50
5	04:50 19:55-21:05/70 22:05	05:37 19:42-20:39/57 21:21	06:35 20:09	07:32 18:52	07:34 16:39	08:31 14:33-14:41/8 15:57 10:08-10:58/50
6	04:51 19:54-21:05/71 22:05	05:39 19:42-20:38/56 21:19	06:37 20:06	07:34 18:49	07:36 16:37	08:32 14:33-14:43/10 15:56 10:09-10:59/50
7	04:52 19:54-21:05/71 22:04	05:41 19:43-20:37/54 21:17	06:39 20:04	07:36 18:47	07:38 16:35	08:33 14:32-14:44/12 15:56 10:09-10:59/50
8	04:53 19:53-21:05/72 22:03	05:42 19:43-20:35/52 21:15	06:41 20:01	07:38 18:44	07:41 10:19-10:33/14 16:33	08:35 14:32-14:45/13 15:55 10:10-11:00/50
9	04:55 19:52-21:05/73 22:02	05:44 19:43-20:31/48 21:13	06:43 19:59	07:40 18:42	07:43 10:16-10:37/21 16:32	08:36 14:32-14:46/14 15:55 10:10-11:00/50
10	04:56 19:51-21:05/74 22:01	05:46 19:44-20:26/42 21:11	06:45 19:56	07:42 18:39	07:45 10:13-10:39/26 16:30	08:37 14:32-14:47/15 15:54 10:11-11:01/50
11	04:57 19:52-21:05/73 22:00	05:48 19:44-20:25/41 21:09	06:46 19:53	07:44 18:37	07:47 10:12-10:42/30 16:28	08:39 14:32-14:48/16 15:54 10:11-11:01/50
12	04:58 19:51-21:05/74 21:59	05:50 19:44-20:24/40 21:06	06:48 19:51	07:46 18:34	07:49 10:11-10:43/32 16:26	08:40 14:32-14:48/16 15:54 10:12-11:01/49
13	04:59 19:50-21:05/75 21:58	05:52 19:45-20:23/38 21:04	06:50 19:48	07:48 18:32	07:51 10:09-10:44/35 16:24	08:41 14:32-14:49/17 15:54 10:12-11:01/49
14	05:01 19:49-21:04/75 21:57	05:54 19:46-20:22/36 21:02	06:52 19:46	07:50 18:29	07:53 10:08-10:45/37 16:23	08:42 14:32-14:50/18 15:54 10:12-11:01/49
15	05:02 19:48-21:04/76 21:56	05:55 19:47-20:21/34 21:00	06:54 19:43	07:52 18:27	07:55 10:08-10:47/39 16:21	08:43 14:32-14:50/18 15:54 10:13-11:02/49
16	05:04 19:48-21:04/76 21:55	05:57 19:49-20:20/31 20:57	06:56 19:41	07:54 18:24	07:57 10:07-10:48/41 16:19	08:44 14:33-14:51/18 15:54 10:13-11:02/49
17	05:05 19:48-21:04/76 21:53	05:59 19:49-20:17/28 20:55	06:58 19:38	07:56 18:22	07:59 10:07-10:49/42 16:18	08:45 14:33-14:52/19 15:54 10:14-11:03/49
18	05:06 19:47-21:03/76 21:52	06:01 19:51-20:16/25 20:53	07:00 19:35	07:58 18:19	08:01 10:06-10:50/44 16:16	08:46 14:34-14:52/18 15:54 10:15-11:03/48
19	05:08 19:47-21:03/76 21:51	06:03 19:53-20:13/20 20:51	07:01 19:33	08:00 18:17	08:03 10:06-10:50/44 16:15	08:46 14:34-14:53/19 15:54 10:16-11:04/48
20	05:09 19:46-21:02/76 21:49	06:05 19:57-20:10/13 20:48	07:03 19:30	08:02 18:15	08:05 10:06-10:52/46 16:13	08:47 14:34-14:53/19 15:55 10:15-11:04/49
21	05:11 19:46-21:02/76 21:48	06:07 20:46	07:05 19:28	08:04 18:12	08:06 10:06-10:52/46 16:12	08:48 14:35-14:54/19 15:55 10:16-11:05/49
22	05:13 19:45-21:01/76 21:46	06:09 20:43	07:07 19:25	08:06 18:10	08:08 10:06-10:53/47 16:10	08:48 14:35-14:54/19 15:55 10:16-11:05/49
23	05:14 19:45-21:00/75 21:45	06:11 20:41	07:09 19:22	08:08 18:08	08:10 10:06-10:53/47 16:09	08:49 14:36-14:55/19 15:56 10:17-11:06/49
24	05:16 19:44-20:59/75 21:43	06:12 20:39	07:11 19:20	08:10 18:05	08:12 10:06-10:54/48 16:08	08:49 14:36-14:55/19 15:57 10:17-11:06/49
25	05:17 19:45-20:58/73 21:42	06:14 20:36	07:13 19:17	07:12 17:03	08:14 10:06-10:54/48 16:06	08:49 14:36-14:55/19 15:57 10:18-11:06/48
26	05:19 19:44-20:56/72 21:40	06:16 20:34	07:15 19:15	07:14 17:01	08:16 10:06-10:55/49 16:05	08:50 14:38-14:56/18 15:58 10:19-11:08/49
27	05:21 19:44-20:55/71 21:38	06:18 20:31	07:17 19:12	07:16 16:59	08:18 10:06-10:55/49 16:04	08:50 14:38-14:57/19 15:59 10:19-11:08/49
28	05:23 19:43-20:53/70 21:36	06:20 20:29	07:19 19:10	07:18 16:56	08:19 10:06-10:56/50 16:03	08:50 14:39-14:57/18 16:00 10:20-11:09/49
29	05:24 19:43-20:50/67 21:35	06:22 20:26	07:20 19:07	07:20 16:54	08:21 10:07-10:56/49 16:02	08:50 14:40-14:57/17 16:01 10:20-11:09/49
30	05:26 19:42-20:45/63 21:33	06:24 20:24	07:22 19:04	07:22 16:52	08:23 10:07-10:57/50 16:01	08:50 14:39-14:57/18 16:01 10:20-11:09/49
31	05:28 19:43-20:45/62 21:31	06:26 20:21		07:24 16:50		08:50 14:40-14:57/17 16:03 10:20-11:10/50
Potential sun hours	521	465	383	326	253	225
Sum of minutes with flicker	2237	855	0	0	934	1983

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 9 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January		February		March		April		May	June
1	08:50		08:17	15:50-16:16/26	07:16		06:58	19:10-19:29/19	05:45	04:52
	16:04		16:58		17:57		19:59		20:58	21:52
2	08:50		08:15	15:50-16:16/26	07:14		06:55	19:07-19:31/24	05:43	04:51
	16:05		17:00		17:59		20:01		21:00	21:53
3	08:50		08:13	15:51-16:16/25	07:12		06:53	19:05-19:33/28	05:41	04:50
	16:06		17:02		18:01		20:03		21:02	21:54
4	08:49		08:12	15:51-16:16/25	07:09		06:50	19:03-19:34/31	05:38	04:49
	16:08		17:04		18:03		20:05		21:04	21:56
5	08:49		08:10	15:52-16:15/23	07:07		06:48	19:02-19:35/33	05:36	04:48
	16:09		17:07		18:05		20:07		21:06	21:57
6	08:49		08:08	15:53-16:15/22	07:04		06:45	19:00-19:35/35	05:34	04:47
	16:10		17:09		18:07		20:09		21:08	21:58
7	08:48		08:06	15:54-16:15/21	07:02		06:43	19:00-19:36/36	05:32	04:47
	16:12		17:11		18:10		20:11		21:10	21:59
8	08:48		08:04	15:55-16:14/19	06:59		06:40	18:58-19:36/38	05:30	04:46
	16:13		17:13		18:12		20:13		21:12	22:00
9	08:47		08:02	15:56-16:11/15	06:57		06:37	18:58-19:36/38	05:28	04:45
	16:15		17:15		18:14		20:15		21:14	22:01
10	08:46		08:00	15:59-16:10/11	06:54		06:35	18:57-19:36/39	05:26	04:45
	16:16		17:17		18:16		20:17		21:15	22:02
11	08:45		07:58		06:52		06:32	18:57-19:36/39	05:24	04:44
	16:18		17:19		18:18		20:19		21:17	22:03
12	08:45		07:55		06:49		06:30	18:57-19:37/40	05:22	04:44
	16:20		17:21		18:20		20:21		21:19	22:04
13	08:44		07:53		06:46		06:27	18:56-19:36/40	05:20	04:43
	16:21		17:24		18:22		20:23		21:21	22:04
14	08:43		07:51		06:44		06:25	18:56-19:36/40	05:19	04:43
	16:23		17:26		18:24		20:25		21:23	22:05
15	08:42		07:49		06:41		06:23	18:56-19:35/39	05:17	04:43
	16:25		17:28		18:26		20:27		21:25	22:06
16	08:41		07:47		06:39		06:20	18:56-19:35/39	05:15	04:43
	16:26		17:30		18:28		20:29		21:26	22:06
17	08:40		07:45		06:36		06:18	18:57-19:34/37	05:13	04:42
	16:28		17:32		18:30		20:31		21:28	22:07
18	08:38		07:42		06:34		06:15	18:56-19:33/37	05:11	04:42
	16:30		17:34		18:32		20:33		21:30	22:07
19	08:37		07:40		06:31		06:13	18:57-19:32/35	05:10	04:42
	16:32		17:36		18:34		20:35		21:32	22:08
20	08:36		07:38		06:29		06:10	18:58-19:31/33	05:08	04:42
	16:34		17:38		18:36		20:37		21:33	22:08
21	08:35	15:55-15:59/4	07:35		06:26		06:08	18:58-19:30/32	05:07	04:42
	16:36		17:41		18:38		20:39		21:35	22:08
22	08:33	15:54-16:02/8	07:33		06:23		06:06	19:00-19:29/29	05:05	04:43
	16:38		17:43		18:40		20:41		21:37	22:08
23	08:32	15:53-16:04/11	07:31		06:21		06:03	19:01-19:27/26	05:03	04:43
	16:40		17:45		18:42		20:43		21:38	22:09
24	08:30	15:52-16:06/14	07:28		06:18		06:01	19:03-19:26/23	05:02	04:43
	16:42		17:47		18:44		20:45		21:40	22:09
25	08:29	15:52-16:09/17	07:26		06:16		05:59	19:04-19:22/18	05:01	04:44
	16:44		17:49		18:45		20:46		21:42	22:09
26	08:27	15:51-16:11/20	07:24		06:13		05:56	19:08-19:19/11	04:59	04:44
	16:46		17:51		18:47		20:48		21:43	22:09
27	08:26	15:51-16:13/22	07:21		06:11		05:54		04:58	04:44
	16:48		17:53		18:49		20:50		21:45	22:08
28	08:24	15:50-16:14/24	07:19		06:08		05:52		04:57	04:45
	16:50		17:55		18:51		20:52		21:46	22:08
29	08:22	15:50-16:15/25			07:05		05:49		04:55	04:46
	16:52				19:53		20:54		21:48	22:08
30	08:21	15:50-16:15/25			07:03		05:47		04:54	04:46
	16:54				19:55		20:56		21:49	22:08
31	08:19	15:50-16:16/26			07:00	19:14-19:26/12			04:53	
	16:56				19:57				21:50	
Potential sun hours	242		269		366		423		501	519
Sum of minutes with flicker	196		213		12		839		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 9 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August		September		October		November		December
1	04:47	05:30		06:28	18:56-19:35/39	07:24		07:26	15:28-15:40/12	08:25
	22:07	21:29		20:19		19:02		16:48		16:00
2	04:48	05:31		06:30	18:56-19:35/39	07:26		07:28	15:26-15:41/15	08:26
	22:07	21:27		20:17		18:59		16:46		15:59
3	04:49	05:33		06:31	18:56-19:35/39	07:28		07:30	15:25-15:44/19	08:28
	22:07	21:25		20:14		18:57		16:44		15:58
4	04:49	05:35		06:33	18:56-19:34/38	07:30		07:32	15:24-15:44/20	08:29
	22:06	21:23		20:11		18:54		16:41		15:58
5	04:50	05:37		06:35	18:56-19:32/36	07:32		07:34	15:22-15:45/23	08:31
	22:05	21:21		20:09		18:52		16:39		15:57
6	04:51	05:39		06:37	18:56-19:31/35	07:34		07:37	15:22-15:45/23	08:32
	22:05	21:19		20:06		18:49		16:37		15:56
7	04:52	05:41		06:39	18:57-19:30/33	07:36		07:39	15:22-15:47/25	08:34
	22:04	21:17		20:04		18:47		16:36		15:56
8	04:53	05:42		06:41	18:58-19:29/31	07:38		07:41	15:21-15:47/26	08:35
	22:03	21:15		20:01		18:44		16:34		15:55
9	04:55	05:44		06:43	18:59-19:27/28	07:40		07:43	15:21-15:47/26	08:36
	22:02	21:13		19:59		18:42		16:32		15:55
10	04:56	05:46		06:45	19:00-19:24/24	07:42		07:45	15:21-15:47/26	08:38
	22:01	21:11		19:56		18:39		16:30		15:55
11	04:57	05:48		06:47	19:02-19:22/20	07:44		07:47	15:22-15:47/25	08:39
	22:00	21:09		19:54		18:37		16:28		15:54
12	04:58	05:50		06:48	19:05-19:18/13	07:46		07:49	15:22-15:47/25	08:40
	21:59	21:07		19:51		18:34		16:26		15:54
13	04:59	05:52		06:50		07:48		07:51	15:22-15:47/25	08:41
	21:58	21:04		19:48		18:32		16:24		15:54
14	05:01	05:54		06:52		07:50		07:53	15:22-15:46/24	08:42
	21:57	21:02		19:46		18:29		16:23		15:54
15	05:02	05:56		06:54		07:52		07:55	15:24-15:46/22	08:43
	21:56	21:00		19:43		18:27		16:21		15:54
16	05:04	05:57		06:56		07:54		07:57	15:24-15:44/20	08:44
	21:55	20:58		19:41		18:24		16:19		15:54
17	05:05	05:59	19:13-19:27/14	06:58		07:56		07:59	15:25-15:42/17	08:45
	21:54	20:55		19:38		18:22		16:18		15:54
18	05:06	06:01	19:10-19:29/19	07:00		07:58		08:01	15:26-15:40/14	08:46
	21:52	20:53		19:36		18:20		16:16		15:54
19	05:08	06:03	19:08-19:31/23	07:02		08:00		08:03	15:27-15:38/11	08:46
	21:51	20:51		19:33		18:17		16:15		15:54
20	05:10	06:05	19:06-19:33/27	07:03		08:02		08:05	15:29-15:37/8	08:47
	21:50	20:48		19:30		18:15		16:13		15:55
21	05:11	06:07	19:04-19:33/29	07:05		08:04		08:07	15:31-15:35/4	08:48
	21:48	20:46		19:28		18:12		16:12		15:55
22	05:13	06:09	19:03-19:34/31	07:07		08:06		08:09		08:48
	21:47	20:44		19:25		18:10		16:10		15:56
23	05:14	06:11	19:02-19:35/33	07:09		08:08		08:10		08:49
	21:45	20:41		19:23		18:08		16:09		15:56
24	05:16	06:13	19:01-19:36/35	07:11		08:10		08:12		08:49
	21:43	20:39		19:20		18:05		16:08		15:57
25	05:18	06:14	19:00-19:37/37	07:13		07:12		08:14		08:50
	21:42	20:36		19:17		17:03		16:06		15:57
26	05:19	06:16	18:58-19:36/38	07:15		07:14		08:16		08:50
	21:40	20:34		19:15		17:01		16:05		15:58
27	05:21	06:18	18:58-19:36/38	07:17		07:16		08:18		08:50
	21:38	20:31		19:12		16:59		16:04		15:59
28	05:23	06:20	18:57-19:37/40	07:19		07:18		08:19		08:50
	21:37	20:29		19:10		16:56		16:03		16:00
29	05:24	06:22	18:57-19:37/40	07:21		07:20		08:21		08:50
	21:35	20:27		19:07		16:54		16:02		16:01
30	05:26	06:24	18:57-19:37/40	07:22		07:22		08:23		08:50
	21:33	20:24		19:04		16:52		16:01		16:02
31	05:28	06:26	18:56-19:36/40			07:24	15:33-15:35/2			08:50
	21:31	20:22				16:50				16:03
Potential sun hours	521	465		383		326		253		225
Sum of minutes with flicker	0	484		375		2		410		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 10 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June
1	08:50 12:20-13:25/65	08:17 12:26-13:39/73	07:16	06:58	05:45	04:52
	16:04	16:58	17:57	19:59	20:58	21:52
2	08:50 12:19-13:26/67	08:15 12:27-13:39/72	07:14	06:55	05:43	04:51
	16:05	17:00	17:59	20:01	21:00	21:53
3	08:50 12:20-13:27/67	08:13 12:27-13:38/71	07:11	06:53	05:41	04:50
	16:06	17:02	18:01	20:03	21:02	21:54
4	08:49 12:20-13:27/67	08:12 12:28-13:38/70	07:09	06:50	05:38	04:49
	16:08	17:04	18:03	20:05	21:04	21:56
5	08:49 12:21-13:28/67	08:10 12:29-13:38/69	07:06 17:28-17:37/9	06:47	05:36	04:48
	16:09	17:06	18:05	20:07	21:06	21:57
6	08:49 12:21-13:28/67	08:08 12:29-13:38/69	07:04 17:25-17:40/15	06:45	05:34	04:47
	16:10	17:09	18:07	20:09	21:08	21:58
7	08:48 12:20-13:29/69	08:06 12:30-13:37/67	07:02 17:23-17:41/18	06:42	05:32	04:46
	16:12	17:11	18:09	20:11	21:10	21:59
8	08:47 12:22-13:30/68	08:04 12:31-13:37/66	06:59 17:22-17:44/22	06:40	05:30	04:46
	16:13	17:13	18:11	20:13	21:12	22:00
9	08:47 12:22-13:31/69	08:02 12:31-13:35/64	06:57 17:20-17:46/26	06:37	05:28	04:45
	16:15	17:15	18:13	20:15	21:14	22:01
10	08:46 12:22-13:32/70	08:00 12:33-13:35/62	06:54 17:19-17:47/28	06:35	05:26	04:45
	16:16	17:17	18:16	20:17	21:15	22:02
11	08:45 12:22-13:32/70	07:58 12:34-13:34/60	06:51 17:18-17:47/29	06:32	05:24	04:44
	16:18	17:19	18:18	20:19	21:17	22:03
12	08:44 12:22-13:33/71	07:55 12:35-13:33/58	06:49 17:18-17:48/30	06:30	05:22	04:44
	16:19	17:21	18:20	20:21	21:19	22:03
13	08:44 12:21-13:33/72	07:53 12:36-13:31/55	06:46 17:17-17:48/31	06:27	05:20	04:43
	16:21	17:24	18:22	20:23	21:21	22:04
14	08:43 12:22-13:33/71	07:51 12:38-13:30/52	06:44 17:16-17:47/31	06:25	05:18	04:43
	16:23	17:26	18:24	20:25	21:23	22:05
15	08:42 12:22-13:34/72	07:49 12:40-13:29/49	06:41 17:16-17:48/32	06:22	05:17	04:43
	16:25	17:28	18:26	20:27	21:25	22:06
16	08:41 12:23-13:35/72	07:47 12:41-13:26/45	06:39 17:16-17:47/31	06:20	05:15	04:42
	16:26	17:30	18:28	20:29	21:26	22:06
17	08:39 12:22-13:35/73	07:44 12:44-13:24/40	06:36 17:16-17:47/31	06:18	05:13	04:42
	16:28	17:32	18:30	20:31	21:28	22:07
18	08:38 12:23-13:36/73	07:42 12:47-13:22/35	06:34 17:16-17:45/29	06:15	05:11	04:42
	16:30	17:34	18:32	20:33	21:30	22:07
19	08:37 12:22-13:36/74	07:40 12:50-13:18/28	06:31 17:16-17:44/28	06:13	05:10	04:42
	16:32	17:36	18:34	20:35	21:32	22:08
20	08:36 12:23-13:37/74	07:38 12:56-13:12/16	06:29 17:18-17:43/25	06:10	05:08	04:42
	16:34	17:38	18:36	20:37	21:33	22:08
21	08:35 12:23-13:37/74	07:35	06:26 17:18-17:41/23	06:08	05:06	04:42
	16:36	17:40	18:37	20:39	21:35	22:08
22	08:33 12:24-13:38/74	07:33	06:23 17:20-17:40/20	06:06	05:05	04:43
	16:38	17:43	18:39	20:41	21:37	22:08
23	08:32 12:24-13:38/74	07:31	06:21 17:22-17:37/15	06:03	05:03	04:43
	16:40	17:45	18:41	20:42	21:38	22:08
24	08:30 12:24-13:38/74	07:28	06:18 17:25-17:32/7	06:01	05:02	04:43
	16:42	17:47	18:43	20:44	21:40	22:09
25	08:29 12:25-13:39/74	07:26	06:16	05:58	05:00	04:43
	16:44	17:49	18:45	20:46	21:42	22:09
26	08:27 12:25-13:39/74	07:24	06:13	05:56	04:59	04:44
	16:46	17:51	18:47	20:48	21:43	22:09
27	08:26 12:25-13:39/74	07:21	06:11	05:54	04:58	04:44
	16:48	17:53	18:49	20:50	21:45	22:08
28	08:24 12:25-13:39/74	07:19	06:08	05:52	04:56	04:45
	16:50	17:55	18:51	20:52	21:46	22:08
29	08:22 12:25-13:39/74		07:05	05:49	04:55	04:45
	16:52		19:53	20:54	21:48	22:08
30	08:21 12:25-13:39/74		07:03	05:47	04:54	04:46
	16:54		19:55	20:56	21:49	22:08
31	08:19 12:26-13:39/73		07:00		04:53	
	16:56		19:57		21:50	
Potential sun hours	242	269	366	423	501	519
Sum of minutes with flicker	2211	1121	480	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 10 - .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	July	August	September	October	November	December
1	04:47	05:30	06:28	07:24 17:57-18:27/30	07:26 12:02-13:05/63	08:24 12:04-13:14/70
	22:07	21:29	20:19	19:02	16:48	16:00
2	04:48	05:31	06:29	07:26 17:57-18:27/30	07:28 12:01-13:05/64	08:26 12:04-13:14/70
	22:07	21:27	20:16	18:59	16:46	15:59
3	04:48	05:33	06:31	07:28 17:57-18:26/29	07:30 12:01-13:07/66	08:28 12:05-13:14/69
	22:06	21:25	20:14	18:57	16:43	15:58
4	04:49	05:35	06:33	07:30 17:57-18:25/28	07:32 12:00-13:07/67	08:29 12:06-13:15/69
	22:06	21:23	20:11	18:54	16:41	15:58
5	04:50	05:37	06:35	07:32 17:58-18:22/24	07:34 11:59-13:07/68	08:31 12:06-13:14/68
	22:05	21:21	20:09	18:52	16:39	15:57
6	04:51	05:39	06:37	07:34 17:59-18:19/20	07:36 11:58-13:08/70	08:32 12:07-13:15/68
	22:05	21:19	20:06	18:49	16:37	15:56
7	04:52	05:40	06:39	07:36 18:01-18:17/16	07:39 11:59-13:09/70	08:34 12:08-13:15/67
	22:04	21:17	20:04	18:47	16:35	15:56
8	04:53	05:42	06:41	07:38 18:03-18:14/11	07:41 11:58-13:09/71	08:35 12:08-13:15/67
	22:03	21:15	20:01	18:44	16:33	15:55
9	04:54	05:44	06:43	07:40 18:07-18:12/5	07:43 11:57-13:09/72	08:36 12:08-13:15/67
	22:02	21:13	19:59	18:42	16:32	15:55
10	04:56	05:46	06:45	07:42	07:45 11:57-13:09/72	08:38 12:09-13:16/67
	22:01	21:11	19:56	18:39	16:30	15:54
11	04:57	05:48	06:46	07:44	07:47 11:58-13:11/73	08:39 12:10-13:16/66
	22:00	21:09	19:54	18:37	16:28	15:54
12	04:58	05:50	06:48	07:46	07:49 11:57-13:11/74	08:40 12:10-13:16/66
	21:59	21:07	19:51	18:34	16:26	15:54
13	04:59	05:52	06:50	07:48	07:51 11:57-13:11/74	08:41 12:11-13:16/65
	21:58	21:04	19:48	18:32	16:24	15:54
14	05:01	05:54	06:52	07:50	07:53 11:57-13:11/74	08:42 12:12-13:17/65
	21:57	21:02	19:46	18:29	16:23	15:54
15	05:02	05:55	06:54	07:52	07:55 11:58-13:12/74	08:43 12:13-13:17/64
	21:56	21:00	19:43	18:27	16:21	15:54
16	05:03	05:57	06:56	07:54	07:57 11:58-13:12/74	08:44 12:12-13:17/65
	21:55	20:58	19:41	18:24	16:19	15:54
17	05:05	05:59	06:58	07:56	07:59 11:58-13:12/74	08:45 12:13-13:17/64
	21:54	20:55	19:38	18:22	16:18	15:54
18	05:06	06:01	07:00	07:58	08:01 11:58-13:12/74	08:46 12:14-13:18/64
	21:52	20:53	19:35	18:19	16:16	15:54
19	05:08	06:03	07:01 18:16-18:17/1	08:00	08:03 11:58-13:12/74	08:46 12:15-13:18/63
	21:51	20:51	19:33	18:17	16:14	15:54
20	05:09	06:05	07:03 18:09-18:23/14	08:02	08:05 11:59-13:13/74	08:47 12:15-13:19/64
	21:49	20:48	19:30	18:15	16:13	15:55
21	05:11	06:07	07:05 18:06-18:25/19	08:04	08:07 11:59-13:13/74	08:48 12:15-13:19/64
	21:48	20:46	19:28	18:12	16:12	15:55
22	05:13	06:09	07:07 18:03-18:26/23	08:06 13:25-13:45/20	08:08 11:59-13:13/74	08:48 12:16-13:20/64
	21:46	20:44	19:25	18:10	16:10	15:55
23	05:14	06:11	07:09 18:02-18:27/25	08:08 13:19-13:49/30	08:10 12:00-13:13/73	08:49 12:16-13:20/64
	21:45	20:41	19:22	18:08	16:09	15:56
24	05:16	06:12	07:11 18:00-18:27/27	08:10 13:16-13:52/36	08:12 12:00-13:13/73	08:49 12:16-13:20/64
	21:43	20:39	19:20	18:05	16:08	15:57
25	05:17	06:14	07:13 17:59-18:28/29	07:12 12:14-12:55/41	08:14 12:00-13:13/73	08:50 12:18-13:22/64
	21:42	20:36	19:17	17:03	16:06	15:57
26	05:19	06:16	07:15 17:58-18:28/30	07:14 12:11-12:57/46	08:16 12:01-13:13/72	08:50 12:18-13:22/64
	21:40	20:34	19:15	17:01	16:05	15:58
27	05:21	06:18	07:17 17:58-18:28/30	07:16 12:09-12:59/50	08:18 12:01-13:13/72	08:50 12:18-13:22/64
	21:38	20:31	19:12	16:59	16:04	15:59
28	05:23	06:20	07:19 17:57-18:28/31	07:18 12:07-13:00/53	08:19 12:02-13:14/72	08:50 12:19-13:23/64
	21:37	20:29	19:10	16:56	16:03	16:00
29	05:24	06:22	07:20 17:57-18:28/31	07:20 12:05-13:01/56	08:21 12:03-13:14/71	08:50 12:19-13:24/65
	21:35	20:26	19:07	16:54	16:02	16:00
30	05:26	06:24	07:22 17:57-18:28/31	07:22 12:05-13:03/58	08:23 12:03-13:14/71	08:50 12:19-13:24/65
	21:33	20:24	19:04	16:52	16:01	16:01
31	05:28	06:26		07:24 12:03-13:04/61		08:50 12:19-13:24/65
	21:31	20:21		16:50		16:02
Potential sun hours	521	465	383	326	253	225
Sum of minutes with flicker	0	0	291	644	2147	2035

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 11 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:52	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:06	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	04:48	04:50	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:39	15:57
6	08:48	08:07	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:07	21:57	22:04	21:19	20:06	18:49	16:37	15:56
7	08:48	08:05	07:01	06:42	05:32	04:47	04:52	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:03	21:17	20:04	18:46	16:35	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:42	06:41	07:38	07:40	08:34
	16:13	17:13	18:11	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:55
9	08:46	08:01	06:56	06:37	05:28	04:45	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13	22:00	22:02	21:13	19:58	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:44	07:42	07:44	08:37
	16:16	17:17	18:15	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:43	07:46	08:38
	16:18	17:19	18:17	20:19	21:17	22:02	22:00	21:08	19:53	18:36	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:45	07:48	08:39
	16:20	17:21	18:19	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	04:43	05:00	05:52	06:50	07:47	07:50	08:41
	16:21	17:24	18:21	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:49	07:52	08:42
	16:23	17:26	18:23	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	04:43	05:02	05:55	06:54	07:51	07:54	08:43
	16:25	17:28	18:25	20:26	21:24	22:05	21:56	20:59	19:43	18:27	16:21	15:54
16	08:40	07:46	06:39	06:20	05:15	04:43	05:04	05:57	06:56	07:53	07:56	08:43
	16:27	17:30	18:27	20:28	21:26	22:06	21:54	20:57	19:40	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:42	05:05	05:59	06:58	07:55	07:58	08:44
	16:28	17:32	18:29	20:30	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:33	06:15	05:11	04:42	05:07	06:01	06:59	07:57	08:00	08:45
	16:30	17:34	18:31	20:32	21:29	22:07	21:52	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:01	07:59	08:02	08:46
	16:32	17:36	18:33	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:54
20	08:35	07:37	06:28	06:10	05:08	04:42	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:40	18:37	20:38	21:35	22:08	21:48	20:46	19:27	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:05	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:30	06:21	06:03	05:03	04:43	05:14	06:11	07:09	08:07	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:44	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:12	07:11	08:09	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:38	19:20	18:05	16:08	15:57
25	08:28	07:26	06:16	05:58	05:01	04:44	05:18	06:14	07:13	07:11	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:15	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	04:58	04:45	05:21	06:18	07:16	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:09	16:56	16:03	16:00
29	08:22		07:05	05:49	04:55	04:46	05:24	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 12 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:27	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:31	06:29	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:52	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:06	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:43	15:58
4	08:49	08:11	07:09	06:50	05:38	04:49	04:49	05:35	06:33	07:30	07:32	08:29
	16:08	17:04	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:41	15:58
5	08:49	08:09	07:06	06:47	05:36	04:48	04:50	05:37	06:35	07:32	07:34	08:30
	16:09	17:06	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:51	16:39	15:57
6	08:48	08:07	07:04	06:45	05:34	04:47	04:51	05:39	06:37	07:34	07:36	08:32
	16:10	17:09	18:07	20:09	21:07	21:57	22:04	21:19	20:06	18:49	16:37	15:56
7	08:48	08:05	07:01	06:42	05:32	04:47	04:52	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:03	21:17	20:04	18:46	16:35	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:53	05:42	06:41	07:38	07:40	08:34
	16:13	17:13	18:11	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:33	15:55
9	08:46	08:01	06:56	06:37	05:28	04:45	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:13	20:15	21:13	22:00	22:02	21:13	19:58	18:41	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:44	07:41	07:44	08:37
	16:16	17:17	18:15	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:43	07:46	08:38
	16:18	17:19	18:17	20:19	21:17	22:02	22:00	21:08	19:53	18:36	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:45	07:48	08:39
	16:20	17:21	18:19	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:20	04:43	05:00	05:52	06:50	07:47	07:50	08:41
	16:21	17:23	18:21	20:23	21:21	22:04	21:58	21:04	19:48	18:31	16:24	15:54
14	08:42	07:51	06:44	06:25	05:18	04:43	05:01	05:54	06:52	07:49	07:52	08:42
	16:23	17:26	18:23	20:24	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:22	05:17	04:43	05:02	05:55	06:54	07:51	07:54	08:43
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16	08:40	07:46	06:39	06:20	05:15	04:43	05:04	05:57	06:56	07:53	07:56	08:43
	16:26	17:30	18:27	20:28	21:26	22:06	21:54	20:57	19:40	18:24	16:19	15:54
17	08:39	07:44	06:36	06:17	05:13	04:42	05:05	05:59	06:58	07:55	07:58	08:44
	16:28	17:32	18:29	20:30	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:33	06:15	05:11	04:42	05:06	06:01	06:59	07:57	08:00	08:45
	16:30	17:34	18:31	20:32	21:29	22:07	21:52	20:53	19:35	18:19	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:42	05:08	06:03	07:01	07:59	08:02	08:46
	16:32	17:36	18:33	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:54
20	08:35	07:37	06:28	06:10	05:08	04:42	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:40	18:37	20:38	21:35	22:08	21:48	20:46	19:27	18:12	16:12	15:55
22	08:33	07:33	06:23	06:05	05:05	04:43	05:13	06:09	07:07	08:05	08:08	08:48
	16:38	17:42	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:30	06:21	06:03	05:03	04:43	05:14	06:11	07:09	08:07	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:44	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:12	07:11	08:09	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:38	19:20	18:05	16:08	15:57
25	08:28	07:26	06:15	05:58	05:01	04:44	05:18	06:14	07:13	07:11	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:06	15:57
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:13	08:15	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:10	05:54	04:58	04:45	05:21	06:18	07:16	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:18	06:08	05:52	04:57	04:45	05:23	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:09	16:56	16:03	16:00
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	16:52		19:53	20:54	21:47	22:07	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:46	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:18		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 13 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:07	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:36	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:07	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:42	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:03	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:37	05:28	04:46	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:46	08:38
	16:18	17:19	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:48	08:39
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:49	07:52	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:51	07:54	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:46	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:53	07:56	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:55	07:58	08:44
	16:29	17:32	18:30	20:30	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:01	07:59	08:02	08:46
	16:32	17:36	18:33	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:35	07:37	06:28	06:10	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:41	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:05	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:14	06:11	07:09	08:07	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:38	19:20	18:05	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:15	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:56	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 14 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:07	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:03	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:37	05:28	04:46	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:46	08:38
	16:18	17:19	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:22	04:44	04:59	05:50	06:48	07:46	07:48	08:39
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:52	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:51	07:54	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:53	07:56	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:55	07:58	08:44
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	07:59	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:35	07:38	06:29	06:10	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:36	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:41	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 15 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:07	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:07	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:03	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:34
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:37	05:28	04:46	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:45	04:57	05:48	06:46	07:44	07:46	08:38
	16:18	17:19	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:22	04:44	04:59	05:50	06:48	07:46	07:48	08:39
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:49	07:52	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:51	07:54	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:46	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:53	07:56	08:43
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:55	07:58	08:44
	16:29	17:32	18:30	20:30	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:01	07:59	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:35	07:37	06:28	06:10	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:41	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:05	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:07	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:38	19:20	18:06	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:15	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:18	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:56	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:07	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 16 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17 07:43-07:58/15	06:58	05:45	04:52	04:48	05:30	06:28	07:25 08:17-08:37/20	07:26 07:57-08:06/9	08:24
	16:05	16:59	17:58	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14 07:41-07:59/18	06:55	05:43	04:51	04:48	05:32	06:30	07:26 08:16-08:38/22	07:28 08:00-08:05/5	08:26
	16:06	17:01	18:00	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12 07:40-08:01/21	06:53	05:41	04:50	04:49	05:34	06:32	07:28 08:15-08:38/23	07:30 08:02-08:04/2	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09 07:38-08:01/23	06:50	05:39	04:50	04:50	05:36	06:34	07:30 08:14-08:39/25	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:58
5	08:49	08:10	07:07 07:38-08:02/24	06:48	05:37	04:49	04:51	05:37	06:36	07:32 08:13-08:38/25	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08	07:04 07:37-08:02/25	06:45	05:35	04:48	04:52	05:39	06:37	07:34 08:13-08:38/25	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:49	16:38	15:57
7	08:48	08:06	07:02 07:37-08:02/25	06:43	05:33	04:47	04:53	05:41	06:39	07:36 08:13-08:38/25	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04 08:32-08:34/2	06:59 07:36-08:01/25	06:40	05:31	04:46	04:54	05:43	06:41	07:38 08:13-08:37/24	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02 08:30-08:36/6	06:57 07:37-08:02/25	06:38	05:29	04:46	04:55	05:45	06:43	07:40 08:13-08:36/23	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00 08:27-08:36/9	06:54 07:36-08:01/25	06:35	05:27	04:45	04:56	05:47	06:45	07:42 08:14-08:35/21	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58 08:25-08:37/12	06:52 07:36-07:59/23	06:33	05:25	04:45	04:58	05:48	06:47	07:44 08:14-08:34/20	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:56 08:23-08:38/15	06:49 07:38-07:59/21	06:30	05:23	04:44	04:59	05:50	06:49	07:46 08:16-08:32/16	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:27	15:55
13	08:44	07:53 08:21-08:38/17	06:47 07:38-07:57/19	06:28	05:21	04:44	05:00	05:52	06:51	07:48 08:17-08:30/13	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51 08:21-08:37/16	06:44 07:40-07:55/15	06:25	05:19	04:44	05:01	05:54	06:52	07:50 08:21-08:25/4	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:23	15:54
15	08:42	07:49 08:21-08:37/16	06:42 07:42-07:52/10	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47 08:22-08:37/15	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45 08:23-08:35/12	06:36	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42 08:25-08:34/9	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:09	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:55
21	08:35	07:36	06:26	06:08	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:43	05:15	06:11	07:09	08:08 08:57-09:01/4	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:29	06:19	06:01	05:02	04:44	05:16	06:13	07:11	08:10 08:55-09:05/10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12 07:53-08:06/13	08:14	08:50
	16:44	17:49	18:46	20:47	21:42	22:08	21:42	20:36	19:18	17:04	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:45	05:20	06:17	07:15	07:14 07:52-08:07/15	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:16 07:51-08:07/16	08:18	08:50
	16:48	17:53	18:50	20:50	21:45	22:08	21:38	20:32	19:12	16:59	16:05	15:59
28	08:24	07:19 07:46-07:55/9	06:08	05:52	04:57	04:46	05:23	06:20	07:19 08:25-08:31/6	07:18 07:50-08:07/17	08:19	08:50
	16:50	17:55	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21 08:21-08:34/13	07:20 07:51-08:08/17	08:21	08:50
	16:52		19:54	20:54	21:48	22:08	21:35	20:27	19:07	16:55	16:02	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23 08:19-08:36/17	07:22 07:53-08:07/14	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:01		04:54		05:28	06:26		07:24 07:55-08:07/12		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	138	314	0	0	0	0	0	36	404	16	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 17 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (7)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:48	05:30	06:28	07:25 07:52-08:04/12	07:26	08:24
	16:04	16:59	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26 07:54-08:02/8	07:28	08:26
	16:06	17:01	18:00	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28 07:56-08:00/4	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:07	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54 07:19-07:20/1	06:35	05:27	04:45	04:56	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52 07:16-07:23/7	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49 07:14-07:24/10	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:27	15:55
13	08:44	07:53	06:47 07:11-07:25/14	06:28	05:21	04:44	05:00	05:52	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44 07:09-07:26/17	06:25	05:19	04:44	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:42 07:07-07:25/18	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39 07:07-07:25/18	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45	06:36 07:07-07:25/18	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34 07:07-07:23/16	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31 07:08-07:23/15	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29 07:09-07:20/11	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:14	15:55
21	08:34	07:35	06:26 07:12-07:18/6	06:08	05:07	04:43	05:12	06:07	07:06	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07 07:58-08:01/3	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:43	05:15	06:11	07:09 07:54-08:04/10	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:28	06:19	06:01	05:02	04:44	05:16	06:13	07:11 07:52-08:06/14	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13 07:51-08:07/16	07:12	08:14	08:49
	16:44	17:49	18:46	20:47	21:42	22:08	21:42	20:36	19:18	17:03	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:45	05:20	06:17	07:15 07:49-08:06/17	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17 07:48-08:06/18	07:16	08:18	08:50
	16:48	17:53	18:50	20:50	21:45	22:08	21:38	20:32	19:12	16:59	16:05	15:59
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:20	07:19 07:48-08:06/18	07:18	08:19	08:50
	16:50	17:55	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21 07:48-08:06/18	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:55	16:02	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23 07:50-08:05/15	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:01		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	151	0	0	0	0	0	129	24	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 18 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:48	05:30	06:28	07:24	07:26	08:24
	16:04	16:59	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:01	17:59	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:27	04:45	04:56	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:44	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45	06:36	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:14	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:12	06:07	07:05	08:04	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:50	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:05	15:59
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:27	19:07	16:55	16:02	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:01		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 19 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (9)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:09	21:58	22:03	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:38	05:28	04:46	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:33	05:24	04:45	04:57	05:48	06:47	07:44	07:46	08:38
	16:18	17:19	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:48	08:39
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:52	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:54	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:53	07:56	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:55	07:58	08:44
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	07:59	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:35	07:38	06:29	06:10	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:39	18:36	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:41	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninës WTG: 20 - GE WIND ENERGY 5.5-158 Thrust 665 5500 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:00	17:59	20:01	21:00	21:53	22:06	21:27	20:16	18:59	16:46	16:00
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:09	21:58	22:03	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:46	08:38
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:48	08:39
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:52	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:54	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:56	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	06:00	06:58	07:55	07:58	08:44
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	07:59	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:35	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:39	18:36	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06	08:47
	16:36	17:41	18:38	20:38	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	05:00	04:44	05:20	06:16	07:15	07:14	08:15	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:55	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 21 - GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	16:00
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:09	21:58	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:33	05:24	04:45	04:57	05:48	06:47	07:44	07:46	08:38
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
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16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59	08:44
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:00	08:45
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:51	20:50	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:03	08:02	08:04	08:47
	16:34	17:39	18:36	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06	08:47
	16:36	17:41	18:38	20:38	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	05:00	04:44	05:20	06:16	07:15	07:14	08:16	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:55	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	500	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 22 - GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	16:00
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:09	21:58	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:33	05:24	04:45	04:57	05:48	06:47	07:44	07:46	08:38
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:53	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59	08:44
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:00	08:45
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:51	20:50	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:03	08:02	08:04	08:47
	16:34	17:39	18:36	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06	08:47
	16:36	17:41	18:38	20:38	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:20	06:16	07:15	07:14	08:16	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 23 - GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (TOT: 230,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:33	06:31	07:28	07:30	08:27
	16:07	17:02	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:05	21:23	20:11	18:54	16:42	15:58
5	08:49	08:09	07:06	06:48	05:36	04:48	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:05	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:07	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:07	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:05	07:01	06:42	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:09	20:11	21:09	21:58	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:03	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:13	17:13	18:11	20:13	21:11	21:59	22:03	21:15	20:01	18:44	16:34	15:56
9	08:46	08:01	06:56	06:37	05:28	04:46	04:55	05:44	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:00	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	07:59	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:44	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:51	06:32	05:24	04:44	04:57	05:48	06:46	07:44	07:46	08:38
	16:18	17:19	18:18	20:19	21:17	22:02	22:00	21:08	19:53	18:37	16:28	15:54
12	08:44	07:55	06:49	06:30	05:22	04:44	04:58	05:50	06:48	07:46	07:48	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:27	05:21	04:44	05:00	05:52	06:50	07:48	07:50	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:24	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:22	22:04	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:51	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:53	07:56	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:54	20:57	19:41	18:24	16:19	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:55	07:58	08:44
	16:28	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:57	08:00	08:45
	16:30	17:34	18:32	20:32	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:01	07:59	08:02	08:46
	16:32	17:36	18:34	20:34	21:31	22:07	21:50	20:50	19:33	18:17	16:15	15:55
20	08:36	07:37	06:29	06:10	05:08	04:43	05:10	06:05	07:03	08:01	08:04	08:47
	16:34	17:38	18:35	20:36	21:33	22:07	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:03	08:06	08:47
	16:36	17:41	18:37	20:38	21:35	22:08	21:48	20:46	19:28	18:12	16:12	15:55
22	08:33	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:39	20:40	21:36	22:08	21:46	20:43	19:25	18:10	16:10	15:56
23	08:31	07:31	06:21	06:03	05:04	04:43	05:14	06:11	07:09	08:08	08:10	08:48
	16:40	17:45	18:41	20:42	21:38	22:08	21:45	20:41	19:22	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:43	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:43	20:44	21:40	22:08	21:43	20:39	19:20	18:05	16:08	15:57
25	08:28	07:26	06:16	05:59	05:01	04:44	05:18	06:14	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:23	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:49
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:56	16:03	16:00
29	08:22		07:05	05:50	04:56	04:46	05:25	06:22	07:20	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:34	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:22	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:04	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 24 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:03	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:33	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:47	16:00
3	08:50	08:14	07:12	06:53	05:42	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:08	17:03	18:02	20:04	21:02	21:54	22:06	21:25	20:14	18:57	16:44	16:00
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:33	07:35	08:31
	16:10	17:08	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:49	04:53	05:40	06:38	07:34	07:37	08:32
	16:12	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:58
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:42	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	07:00	06:41	05:31	04:47	04:55	05:43	06:42	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:35	15:57
9	08:47	08:02	06:57	06:38	05:29	04:47	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:55	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:18	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:57	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:54	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:55	06:53	07:50	07:53	08:42
	16:24	17:27	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:28	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:57	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:44	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:06	21:53	20:55	19:39	18:23	16:19	15:55
18	08:38	07:43	06:34	06:16	05:13	04:44	05:08	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:14	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:56
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:49	19:31	18:16	16:14	15:56
21	08:35	07:36	06:27	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:09	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:45	05:17	06:13	07:12	08:10	08:12	08:49
	16:43	17:48	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:02	04:45	05:19	06:15	07:13	07:12	08:14	08:49
	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:37	19:18	17:04	16:08	15:59
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:46	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:57	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:04	05:48	04:55	04:48	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:27		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 25 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:33	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:47	16:00
3	08:50	08:14	07:12	06:53	05:42	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:08	17:03	18:02	20:04	21:02	21:54	22:06	21:25	20:14	18:57	16:44	16:00
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:31	07:32	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:32	07:35	08:31
	16:10	17:08	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:49	04:53	05:40	06:38	07:34	07:37	08:32
	16:12	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:58
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:42	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:55	05:43	06:42	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:35	15:57
9	08:47	08:02	06:57	06:38	05:29	04:47	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:18	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:57	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:55	06:53	07:50	07:53	08:42
	16:24	17:27	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:57	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
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18	08:38	07:42	06:34	06:16	05:13	04:44	05:08	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:14	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:56
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:16	16:14	15:56
21	08:34	07:36	06:27	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:09	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:45	05:17	06:13	07:12	08:10	08:12	08:49
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	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:37	19:18	17:04	16:08	15:59
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
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	16:49	17:54	18:50	20:51	21:44	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:57	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:04	05:48	04:55	04:48	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:07	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:27		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 26 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:51	22:07	21:29	20:19	19:02	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:42	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:08	17:03	18:02	20:04	21:02	21:54	22:06	21:25	20:14	18:57	16:44	16:00
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:31	07:32	08:29
	16:09	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:49	04:53	05:40	06:38	07:34	07:37	08:32
	16:12	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:58
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:42	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:55	05:43	06:42	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:47	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:55	06:53	07:50	07:53	08:42
	16:24	17:27	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:40	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:44	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:23	16:19	15:55
18	08:38	07:42	06:34	06:16	05:13	04:44	05:08	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:14	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:56
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:56
21	08:34	07:36	06:27	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:06	08:47
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:48	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:02	04:45	05:19	06:15	07:13	07:12	08:14	08:49
	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:37	19:18	17:04	16:07	15:59
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	04:46	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:50	21:44	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:48	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:07	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 27 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:42	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:08	17:03	18:02	20:04	21:02	21:54	22:06	21:25	20:14	18:57	16:44	16:00
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:31	07:32	08:29
	16:09	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:49	04:53	05:40	06:38	07:34	07:37	08:32
	16:12	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:58
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:42	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:55	05:43	06:42	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:57	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:55	06:53	07:50	07:53	08:42
	16:24	17:27	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:44	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:23	16:19	15:55
18	08:38	07:42	06:34	06:16	05:13	04:44	05:08	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:14	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:56
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:56
21	08:34	07:36	06:27	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:48	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:02	04:45	05:19	06:15	07:13	07:12	08:14	08:49
	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:46	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:50	21:44	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:48	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:07	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:27		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 28 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:51	22:07	21:29	20:19	19:02	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:30	07:32	08:29
	16:09	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:32	07:34	08:31
	16:10	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:48	04:53	05:40	06:38	07:34	07:37	08:32
	16:11	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:41	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:55	05:43	06:41	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:54	06:53	07:50	07:53	08:42
	16:24	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:40	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:44	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:23	16:19	15:55
18	08:38	07:42	06:34	06:16	05:12	04:44	05:08	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:13	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:55
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:56
21	08:34	07:36	06:26	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:07	08:47
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:11	08:10	08:12	08:49
	16:43	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:02	04:45	05:19	06:15	07:13	07:12	08:14	08:49
	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:36	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:21	06:11	05:55	04:59	04:46	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:50	21:44	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:47	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:07	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:26		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 29 - GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m) (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:17	06:58	05:46	04:53	04:48	05:31	06:28	07:25	07:26	08:24
	16:05	16:59	17:58	20:00	20:58	21:52	22:07	21:29	20:19	19:02	16:49	16:01
2	08:50	08:15	07:14	06:56	05:44	04:52	04:49	05:32	06:30	07:27	07:28	08:26
	16:06	17:01	18:00	20:02	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:14	07:12	06:53	05:42	04:51	04:50	05:34	06:32	07:29	07:30	08:28
	16:08	17:03	18:02	20:04	21:02	21:54	22:06	21:25	20:14	18:57	16:44	16:00
4	08:49	08:12	07:09	06:51	05:39	04:50	04:51	05:36	06:34	07:31	07:33	08:29
	16:09	17:05	18:04	20:06	21:04	21:55	22:06	21:23	20:12	18:55	16:42	15:59
5	08:49	08:10	07:07	06:48	05:37	04:49	04:52	05:38	06:36	07:32	07:35	08:31
	16:10	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:46	05:35	04:49	04:53	05:40	06:38	07:34	07:37	08:32
	16:12	17:10	18:08	20:09	21:08	21:58	22:04	21:19	20:07	18:50	16:38	15:58
7	08:48	08:06	07:02	06:43	05:33	04:48	04:54	05:42	06:40	07:36	07:39	08:33
	16:13	17:12	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:57
8	08:47	08:04	06:59	06:41	05:31	04:47	04:55	05:43	06:42	07:38	07:41	08:35
	16:14	17:14	18:12	20:13	21:12	22:00	22:03	21:15	20:02	18:45	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:56	05:45	06:43	07:40	07:43	08:36
	16:16	17:16	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:33	15:56
10	08:46	08:00	06:54	06:36	05:27	04:46	04:57	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:57	18:40	16:31	15:56
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:49	06:47	07:44	07:47	08:39
	16:19	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:29	15:55
12	08:44	07:56	06:49	06:31	05:23	04:45	04:59	05:51	06:49	07:46	07:49	08:40
	16:21	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:35	16:27	15:55
13	08:44	07:53	06:47	06:28	05:21	04:45	05:01	05:53	06:51	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:55
14	08:43	07:51	06:44	06:26	05:20	04:44	05:02	05:55	06:53	07:50	07:53	08:42
	16:24	17:27	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:30	16:24	15:55
15	08:42	07:49	06:42	06:23	05:18	04:44	05:03	05:56	06:55	07:52	07:55	08:43
	16:26	17:29	18:26	20:27	21:25	22:05	21:56	21:00	19:44	18:27	16:22	15:55
16	08:41	07:47	06:39	06:21	05:16	04:44	05:05	05:58	06:56	07:54	07:57	08:44
	16:28	17:31	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:55
17	08:39	07:45	06:37	06:18	05:14	04:44	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:33	18:30	20:31	21:28	22:06	21:53	20:55	19:39	18:23	16:19	15:55
18	08:38	07:43	06:34	06:16	05:13	04:44	05:08	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:32	06:14	05:11	04:44	05:09	06:04	07:02	08:00	08:03	08:46
	16:33	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:18	16:16	15:56
20	08:36	07:38	06:29	06:11	05:09	04:44	05:11	06:06	07:04	08:02	08:05	08:47
	16:35	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:31	18:15	16:14	15:56
21	08:35	07:36	06:27	06:09	05:08	04:44	05:12	06:08	07:06	08:04	08:07	08:48
	16:37	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:13	15:56
22	08:33	07:33	06:24	06:06	05:06	04:44	05:14	06:10	07:08	08:06	08:08	08:48
	16:39	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:26	18:11	16:11	15:57
23	08:32	07:31	06:21	06:04	05:05	04:44	05:15	06:11	07:10	08:08	08:10	08:49
	16:41	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:09	16:10	15:57
24	08:30	07:29	06:19	06:02	05:03	04:44	05:17	06:13	07:12	08:10	08:12	08:49
	16:43	17:48	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:09	15:58
25	08:29	07:26	06:16	05:59	05:02	04:45	05:19	06:15	07:13	07:12	08:14	08:49
	16:45	17:50	18:46	20:47	21:41	22:08	21:42	20:37	19:18	17:04	16:07	15:58
26	08:27	07:24	06:14	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:47	17:52	18:48	20:49	21:43	22:08	21:40	20:34	19:15	17:02	16:06	15:59
27	08:26	07:22	06:11	05:55	04:59	04:46	05:22	06:19	07:17	07:16	08:18	08:50
	16:49	17:54	18:50	20:51	21:45	22:08	21:38	20:32	19:13	16:59	16:05	16:00
28	08:24	07:19	06:09	05:53	04:58	04:46	05:24	06:21	07:19	07:18	08:19	08:50
	16:51	17:56	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:04	16:01
29	08:22		07:06	05:50	04:56	04:47	05:25	06:23	07:21	07:20	08:21	08:50
	16:53		19:54	20:54	21:47	22:08	21:35	20:27	19:08	16:55	16:03	16:02
30	08:21		07:03	05:48	04:55	04:48	05:27	06:25	07:23	07:22	08:23	08:50
	16:55		19:56	20:56	21:49	22:08	21:33	20:24	19:05	16:53	16:02	16:03
31	08:19		07:01		04:54		05:29	06:27		07:24		08:50
	16:57		19:58		21:50		21:31	20:22		16:51		16:04
Potential sun hours	243	270	366	423	500	519	520	464	383	326	254	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 30 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:48	05:30	06:28	07:24	07:26	08:24
	16:05	16:59	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:01	18:00	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:50	04:50	05:36	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:31
	16:10	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:58
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:27	04:45	04:56	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:58	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:44	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:42	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45	06:36	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:16	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:45
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:09	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:14	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:12	06:07	07:06	08:04	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:28	06:19	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:18	17:03	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:16	08:18	08:50
	16:48	17:53	18:50	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:05	15:59
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:52	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
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	16:52		19:53	20:54	21:47	22:08	21:35	20:27	19:07	16:55	16:02	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:01		04:54		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 31 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:48	05:30	06:28	07:24	07:26	08:24
	16:04	16:59	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:01
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:01	18:00	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:02	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:39	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:31	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:29	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:27	04:45	04:56	05:47	06:45	07:42	07:45	08:37
	16:17	17:18	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:27	15:55
13	08:43	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:44	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:42	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45	06:36	06:18	05:14	04:43	05:06	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:02	07:00	07:58	08:01	08:46
	16:31	17:35	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:17	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:09	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:14	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:12	06:07	07:05	08:04	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:56
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:04	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:57
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:18	17:03	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:45	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:59
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:19	07:17	07:16	08:18	08:50
	16:48	17:53	18:50	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:05	15:59
28	08:24	07:19	06:08	05:52	04:57	04:46	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:52	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:27	19:07	16:55	16:02	16:01
30	08:21		07:03	05:48	04:55	04:47	05:27	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:01		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 32 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:51	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:01	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	16:00
3	08:49	08:13	07:11	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:30
	16:09	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:57	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35
	16:14	17:13	18:12	20:13	21:11	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:42	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:01	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57	06:52	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:47	08:38
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
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	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:57	19:41	18:24	16:20	15:54
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18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:01	08:45
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:31	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04	08:02	08:04	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
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	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:41	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:56	05:00	04:44	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:58
27	08:25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:01
30	08:20		07:03	05:47	04:55	04:47	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 33 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:06	17:01	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:49	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:33	04:47	04:53	05:41	06:39	07:36	07:38	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:25	04:45	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:43	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:44	06:36	06:18	05:14	04:43	05:05	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:01	08:45
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:55
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:57	05:00	04:44	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:58
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:55	04:47	05:26	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 34 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (24)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50 14:58-15:25/27	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24 14:41-15:16/35
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50 14:57-15:25/28	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26 14:42-15:16/34
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:50 14:58-15:27/29	08:13	07:11	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:27 14:43-15:16/33
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49 14:58-15:28/30	08:11	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29 14:44-15:16/32
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49 14:59-15:29/30	08:10	07:07	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:31 14:44-15:16/32
	16:09	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48 14:58-15:30/32	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32 14:45-15:16/31
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48 14:58-15:31/33	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38	08:33 14:45-15:16/31
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47 14:58-15:32/34	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40	08:35 14:46-15:16/30
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47 14:59-15:32/33	08:02	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:43	08:36 14:46-15:15/29
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46 14:59-15:33/34	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:37 14:46-15:14/28
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45 14:59-15:34/35	07:57	06:52	06:33	05:24	04:45	04:57	05:48	06:47	07:44	07:47	08:39 14:48-15:15/27
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44 14:59-15:35/36	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46	07:49 14:56-15:04/8	08:40 14:48-15:14/26
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43 15:00-15:35/35	07:53	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51 14:54-15:07/13	08:41 14:49-15:14/25
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42 15:00-15:36/36	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53 14:47-15:08/21	08:42 14:49-15:14/25
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41 15:01-15:37/36	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55 14:44-15:09/25	08:43 14:50-15:13/23
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40 15:01-15:37/36	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57 14:43-15:11/28	08:44 14:51-15:13/22
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:57	19:41	18:24	16:20	15:54
17	08:39 15:02-15:38/36	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56	07:59 14:42-15:12/30	08:45 14:52-15:14/22
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38 15:02-15:38/36	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:01 14:41-15:12/31	08:45 14:52-15:14/22
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37 15:02-15:38/36	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03 14:40-15:13/33	08:46 14:53-15:14/21
	16:32	17:36	18:34	20:35	21:31	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36 15:04-15:39/35	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:03	08:02	08:04 14:39-15:13/34	08:47 14:53-15:14/21
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34 15:04-15:39/35	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06 14:40-15:15/35	08:47 14:54-15:15/21
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33 15:04-15:38/34	07:33	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08 14:40-15:15/35	08:48 14:54-15:15/21
	16:38	17:43	18:40	20:40	21:37	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:32 15:06-15:39/33	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10 14:40-15:15/35	08:49 14:55-15:16/21
	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30 15:07-15:38/31	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12 14:40-15:15/35	08:49 14:55-15:16/21
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29 15:08-15:38/30	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14 14:40-15:16/36	08:49 14:55-15:17/22
	16:44	17:49	18:45	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27 15:10-15:38/28	07:24	06:13	05:56	04:59	04:44	05:20	06:16	07:15	07:14	08:16 14:40-15:16/36	08:50 14:55-15:17/22
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:25 15:12-15:37/25	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:17 14:40-15:16/36	08:50 14:56-15:18/22
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24 15:16-15:36/20	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19 14:40-15:16/36	08:50 14:56-15:19/23
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22 15:22-15:35/13		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21 14:41-15:16/35	08:50 14:56-15:20/24
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:01
30	08:21 15:25-15:32/7		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:23 14:40-15:16/36	08:50 14:57-15:21/24
	16:54		19:55	20:56	21:49	22:07	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50 14:57-15:23/26
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	520	464	383	326	253	225
Sum of minutes with flicker	923	0	0	0	0	0	0	0	0	0	578	796

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 35 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17 15:55-16:12/17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26 15:16-16:02/46	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15 15:53-16:14/21	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28 15:16-16:01/45	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:16	18:59	16:46	15:59
3	08:50	08:13 15:52-16:16/24	07:11	06:53	05:41	04:50	04:49	05:33	06:32	07:28	07:30 15:17-15:59/42	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:11 15:51-16:22/31	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32 15:18-15:59/41	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:10 15:50-16:25/35	07:07	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34 15:19-15:57/38	08:31
	16:09	17:07	18:06	20:07	21:06	21:56	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08 15:49-16:28/39	07:04	06:45	05:34	04:48	04:52	05:39	06:37	07:34	07:36 15:20-15:55/35	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06 15:48-16:29/41	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:38 15:20-15:52/32	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04 15:47-16:30/43	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:40 15:23-15:47/24	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02 15:47-16:31/44	06:57	06:38	05:28	04:46	04:55	05:44	06:43	07:40	07:43 15:24-15:45/21	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00 15:46-16:32/46	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45 15:26-15:43/17	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:57 15:46-16:33/47	06:52	06:33	05:24	04:44	04:57	05:48	06:47	07:44	07:47 15:30-15:41/11	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55 15:46-16:34/48	06:49	06:30	05:23	04:44	04:58	05:50	06:48	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:06	19:51	18:34	16:26	15:54
13	08:43	07:53 15:46-16:34/48	06:46	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:21	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:42	07:51 15:46-16:35/49	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50 16:42-16:56/14	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:41	07:49 15:46-16:35/49	06:41	06:23	05:17	04:43	05:02	05:56	06:54	07:52 16:34-16:58/24	07:55	08:43
	16:25	17:28	18:26	20:27	21:24	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47 15:46-16:35/49	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54 16:28-17:00/32	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:57	19:41	18:24	16:20	15:54
17	08:39	07:44 15:46-16:35/49	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56 16:25-17:01/36	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42 15:47-16:35/48	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58 16:23-17:02/39	08:01	08:45
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:35	18:20	16:16	15:54
19	08:37	07:40 15:47-16:34/47	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00 16:21-17:03/42	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38 15:48-16:34/46	06:29	06:11	05:08	04:43	05:10	06:05	07:03	08:02 16:21-17:04/43	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35 15:48-16:33/45	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04 16:19-17:05/46	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33 15:50-16:33/43	06:23	06:06	05:05	04:43	05:13	06:09	07:07	08:06 16:18-17:05/47	08:08	08:48
	16:38	17:43	18:40	20:40	21:37	22:08	21:46	20:43	19:25	18:10	16:11	15:56
23	08:32	07:31 15:52-16:32/40	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08 16:17-17:05/48	08:10	08:49
	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28 15:53-16:31/38	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10 16:16-17:05/49	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26 15:55-16:30/35	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12 15:16-16:04/48	08:14	08:49
	16:44	17:49	18:45	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24 15:58-16:27/29	06:13	05:56	04:59	04:44	05:19	06:16	07:15	07:14 15:16-16:05/49	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21 16:08-16:25/17	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16 15:16-16:05/49	08:17	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19 16:11-16:21/10	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18 15:15-16:04/49	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20 15:15-16:03/48	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22 15:15-16:03/48	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19 15:58-16:09/11		07:00		04:53		05:28	06:26		07:24 15:16-16:03/47		08:50
	16:56		19:57		21:50		21:31	20:21		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	11	1078	0	0	0	0	0	0	0	758	352	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 36 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16 17:01-17:28/27	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14 17:00-17:28/28	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:13	07:12 17:00-17:29/29	06:53	05:41	04:50	04:49	05:34	06:32	07:28 17:46-17:59/13	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09 16:59-17:28/29	06:50	05:39	04:49	04:50	05:35	06:33	07:30 17:42-18:01/19	07:32	08:29
	16:08	17:05	18:03	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:10	07:07 17:00-17:28/28	06:48	05:37	04:48	04:51	05:37	06:35	07:32 17:39-18:02/23	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04 17:00-17:27/27	06:45	05:35	04:48	04:52	05:39	06:37	07:34 17:38-18:03/25	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:04	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02 17:00-17:26/26	06:43	05:32	04:47	04:53	05:41	06:39	07:36 17:36-18:03/27	07:38	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59 17:02-17:26/24	06:40	05:30	04:46	04:54	05:43	06:41	07:38 17:35-18:03/28	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57 17:03-17:24/21	06:38	05:28	04:46	04:55	05:45	06:43	07:40 17:35-18:03/28	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54 17:06-17:22/16	06:35	05:26	04:45	04:56	05:46	06:45	07:42 17:34-18:03/29	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52 17:12-17:18/6	06:33	05:24	04:45	04:57	05:48	06:47	07:44 17:34-18:03/29	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:02	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:48	07:46 17:34-18:02/28	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:43	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48 17:34-18:01/27	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50 17:34-17:59/25	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43	05:03	05:56	06:54	07:52 17:34-17:56/22	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:40	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54 17:35-17:54/19	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:20	15:54
17	08:39	07:44	06:36	06:18	05:13	04:43	05:05	05:59	06:58	07:56 17:36-17:51/15	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:06	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58 17:38-17:48/10	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:06	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31 17:11-17:16/5	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:42	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28 17:06-17:18/12	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26 17:05-17:21/16	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24 17:03-17:22/19	06:13	05:56	04:59	04:44	05:20	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:47	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21 17:02-17:25/23	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:44	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19 17:01-17:27/26	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:36	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:26	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54	04:47	05:26	06:24	07:22	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	101	261	0	0	0	0	0	0	367	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 37 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58 18:55-19:14/19	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55 18:56-19:13/17	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	18:59	16:46	15:59
3	08:50	08:13	07:12	06:53 18:58-19:09/11	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:33	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:11	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:48	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:36	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:39	08:33
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:46	04:55	05:45	06:43 18:52-19:03/11	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:13	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45 18:49-19:05/16	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24	04:44	04:57	05:48	06:47 18:47-19:06/19	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49 18:46-19:07/21	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50 18:45-19:08/23	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:48	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52 18:44-19:08/24	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:41	06:23	05:17	04:43	05:02	05:56	06:54 18:44-19:08/24	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56 18:42-19:07/25	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:24	16:20	15:54
17	08:39	07:45	06:36	06:18	05:13	04:43	05:05	05:59	06:58 18:42-19:07/25	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:53	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00 18:43-19:06/23	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02 18:43-19:04/21	08:00	08:03	08:46
	16:32	17:36	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04 18:44-19:01/17	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:34	07:35	06:26 18:02-18:10/8	06:08	05:07	04:43	05:11	06:07	07:05 18:45-18:59/14	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24 18:00-18:13/13	06:06	05:05	04:43	05:13	06:09	07:07 18:47-18:56/9	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21 17:57-18:14/17	06:03	05:04	04:43	05:15	06:11	07:09 18:50-18:53/3	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18 17:57-18:17/20	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:44	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16 17:55-18:18/23	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:49
	16:44	17:49	18:46	20:46	21:41	22:08	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13 17:54-18:18/24	05:56	04:59	04:44	05:19	06:16	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:05	15:58
27	08:26	07:21	06:11 17:54-18:19/25	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:49	20:50	21:45	22:08	21:38	20:31	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08 17:53-18:18/25	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06 18:54-19:18/24	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:47	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03 18:53-19:17/24	05:47	04:54	04:47	05:26	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00 18:54-19:16/22		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	225	47	0	0	0	0	275	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Suminis: Planuojamos+Foninės WTG: 38 - VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) [KAUNAS]

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,41	2,36	4,03	5,55	8,35	8,36	8,16	7,72	5,06	3,23	1,33	0,98

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
631	511	387	408	598	810	875	941	1 121	1 043	717	589	8 631

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:17	07:16	06:58	05:45	04:52	04:47	05:30	06:28	07:24	07:26	08:24
	16:04	16:58	17:57	19:59	20:58	21:52	22:07	21:29	20:19	19:02	16:48	16:00
2	08:50	08:15	07:14	06:55	05:43	04:51	04:48	05:32	06:30	07:26	07:28	08:26
	16:05	17:00	17:59	20:01	21:00	21:53	22:07	21:27	20:17	19:00	16:46	16:00
3	08:50	08:13	07:12	06:53	05:41	04:50	04:49	05:34	06:32	07:28	07:30	08:28
	16:07	17:03	18:01	20:03	21:02	21:54	22:06	21:25	20:14	18:57	16:44	15:59
4	08:49	08:12	07:09	06:50	05:39	04:49	04:50	05:35	06:34	07:30	07:32	08:29
	16:08	17:05	18:04	20:05	21:04	21:55	22:06	21:23	20:12	18:54	16:42	15:58
5	08:49	08:10	07:07	06:48	05:37	04:48	04:51	05:37	06:35	07:32	07:34	08:31
	16:09	17:07	18:06	20:07	21:06	21:57	22:05	21:21	20:09	18:52	16:40	15:57
6	08:49	08:08	07:04	06:45	05:35	04:48	04:52	05:39	06:37	07:34	07:37	08:32
	16:11	17:09	18:08	20:09	21:08	21:58	22:05	21:19	20:06	18:49	16:38	15:57
7	08:48	08:06	07:02	06:43	05:32	04:47	04:53	05:41	06:39	07:36	07:39	08:34
	16:12	17:11	18:10	20:11	21:10	21:59	22:04	21:17	20:04	18:47	16:36	15:56
8	08:47	08:04	06:59	06:40	05:30	04:46	04:54	05:43	06:41	07:38	07:41	08:35
	16:14	17:13	18:12	20:13	21:12	22:00	22:03	21:15	20:01	18:44	16:34	15:56
9	08:47	08:02	06:57	06:38	05:28	04:46	04:55	05:45	06:43	07:40	07:43	08:36
	16:15	17:15	18:14	20:15	21:14	22:01	22:02	21:13	19:59	18:42	16:32	15:55
10	08:46	08:00	06:54	06:35	05:26	04:45	04:56	05:46	06:45	07:42	07:45	08:37
	16:17	17:17	18:16	20:17	21:15	22:02	22:01	21:11	19:56	18:39	16:30	15:55
11	08:45	07:58	06:52	06:33	05:24	04:45	04:57	05:48	06:47	07:44	07:47	08:39
	16:18	17:20	18:18	20:19	21:17	22:03	22:00	21:09	19:54	18:37	16:28	15:55
12	08:44	07:55	06:49	06:30	05:23	04:44	04:59	05:50	06:49	07:46	07:49	08:40
	16:20	17:22	18:20	20:21	21:19	22:03	21:59	21:07	19:51	18:34	16:26	15:54
13	08:44	07:53	06:47	06:28	05:21	04:44	05:00	05:52	06:50	07:48	07:51	08:41
	16:22	17:24	18:22	20:23	21:21	22:04	21:58	21:04	19:49	18:32	16:25	15:54
14	08:43	07:51	06:44	06:25	05:19	04:43	05:01	05:54	06:52	07:50	07:53	08:42
	16:23	17:26	18:24	20:25	21:23	22:05	21:57	21:02	19:46	18:29	16:23	15:54
15	08:42	07:49	06:42	06:23	05:17	04:43	05:03	05:56	06:54	07:52	07:55	08:43
	16:25	17:28	18:26	20:27	21:25	22:05	21:56	21:00	19:43	18:27	16:21	15:54
16	08:41	07:47	06:39	06:20	05:15	04:43	05:04	05:58	06:56	07:54	07:57	08:44
	16:27	17:30	18:28	20:29	21:26	22:06	21:55	20:58	19:41	18:25	16:20	15:54
17	08:39	07:45	06:36	06:18	05:13	04:43	05:05	06:00	06:58	07:56	07:59	08:45
	16:29	17:32	18:30	20:31	21:28	22:07	21:54	20:55	19:38	18:22	16:18	15:54
18	08:38	07:42	06:34	06:15	05:12	04:43	05:07	06:01	07:00	07:58	08:01	08:46
	16:30	17:34	18:32	20:33	21:30	22:07	21:52	20:53	19:36	18:20	16:16	15:54
19	08:37	07:40	06:31	06:13	05:10	04:43	05:08	06:03	07:02	08:00	08:03	08:46
	16:32	17:37	18:34	20:35	21:32	22:07	21:51	20:51	19:33	18:17	16:15	15:55
20	08:36	07:38	06:29	06:11	05:08	04:43	05:10	06:05	07:04	08:02	08:05	08:47
	16:34	17:39	18:36	20:37	21:33	22:08	21:49	20:48	19:30	18:15	16:13	15:55
21	08:35	07:35	06:26	06:08	05:07	04:43	05:11	06:07	07:05	08:04	08:07	08:48
	16:36	17:41	18:38	20:39	21:35	22:08	21:48	20:46	19:28	18:13	16:12	15:55
22	08:33	07:33	06:24	06:06	05:05	04:43	05:13	06:09	07:07	08:06	08:08	08:48
	16:38	17:43	18:40	20:41	21:37	22:08	21:46	20:44	19:25	18:10	16:11	15:56
23	08:32	07:31	06:21	06:03	05:04	04:43	05:15	06:11	07:09	08:08	08:10	08:49
	16:40	17:45	18:42	20:43	21:38	22:08	21:45	20:41	19:23	18:08	16:09	15:56
24	08:30	07:28	06:18	06:01	05:02	04:44	05:16	06:13	07:11	08:10	08:12	08:49
	16:42	17:47	18:44	20:45	21:40	22:08	21:43	20:39	19:20	18:06	16:08	15:57
25	08:29	07:26	06:16	05:59	05:01	04:44	05:18	06:15	07:13	07:12	08:14	08:50
	16:44	17:49	18:46	20:46	21:42	22:09	21:42	20:36	19:17	17:03	16:07	15:58
26	08:27	07:24	06:13	05:56	04:59	04:44	05:20	06:17	07:15	07:14	08:16	08:50
	16:46	17:51	18:48	20:48	21:43	22:08	21:40	20:34	19:15	17:01	16:06	15:58
27	08:26	07:21	06:11	05:54	04:58	04:45	05:21	06:18	07:17	07:16	08:18	08:50
	16:48	17:53	18:50	20:50	21:45	22:08	21:38	20:32	19:12	16:59	16:04	15:59
28	08:24	07:19	06:08	05:52	04:57	04:45	05:23	06:20	07:19	07:18	08:19	08:50
	16:50	17:55	18:51	20:52	21:46	22:08	21:37	20:29	19:10	16:57	16:03	16:00
29	08:22		07:06	05:50	04:56	04:46	05:25	06:22	07:21	07:20	08:21	08:50
	16:52		19:53	20:54	21:48	22:08	21:35	20:27	19:07	16:54	16:02	16:01
30	08:21		07:03	05:47	04:54	04:47	05:26	06:24	07:23	07:22	08:23	08:50
	16:54		19:55	20:56	21:49	22:08	21:33	20:24	19:05	16:52	16:01	16:02
31	08:19		07:00		04:53		05:28	06:26		07:24		08:50
	16:56		19:57		21:50		21:31	20:22		16:50		16:03
Potential sun hours	243	270	366	423	501	519	521	465	383	326	253	225
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

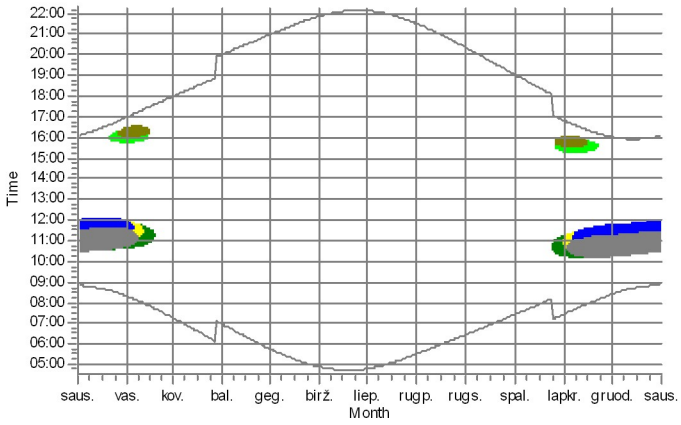
Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

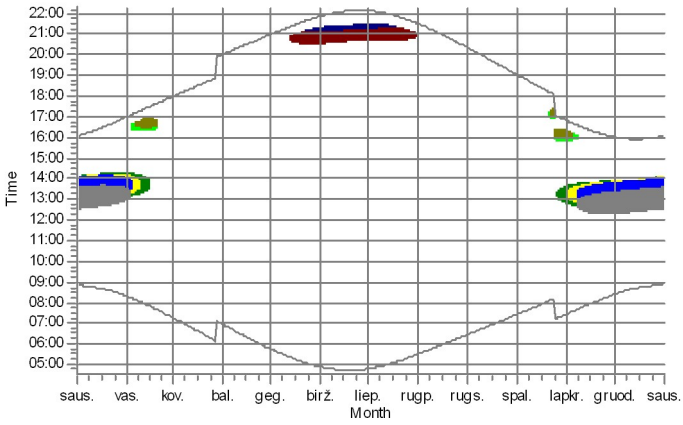
SHADOW - Calendar per WTG, graphical

Calculation: Suminis: Planuojamos+Foninės

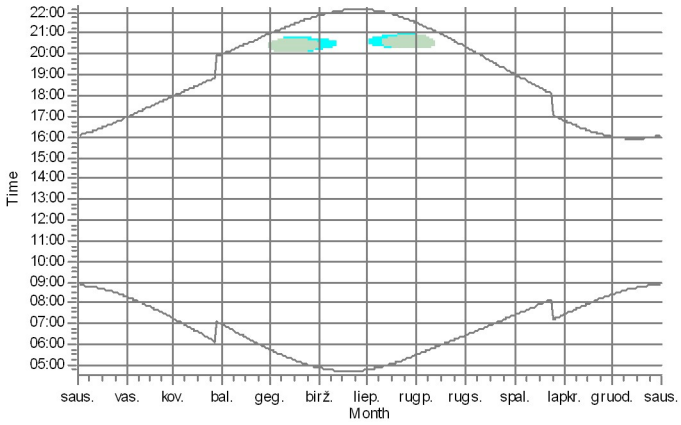
1: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (10)



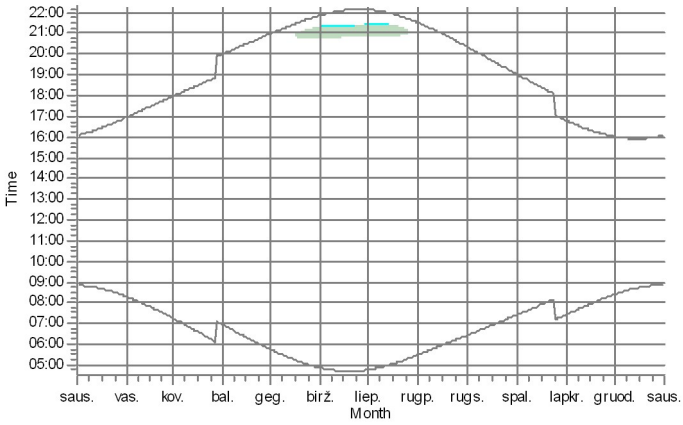
2: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (11)



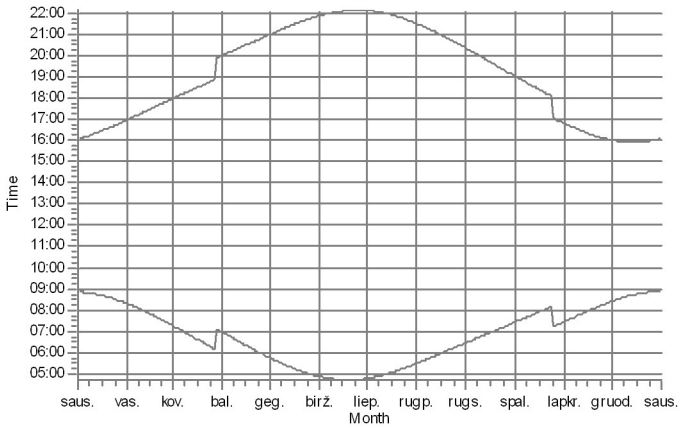
3: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (17)



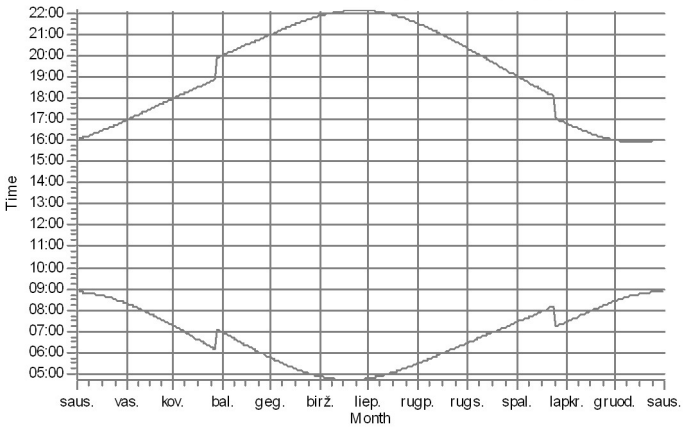
4: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (18)



5: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (19)



6: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (20)



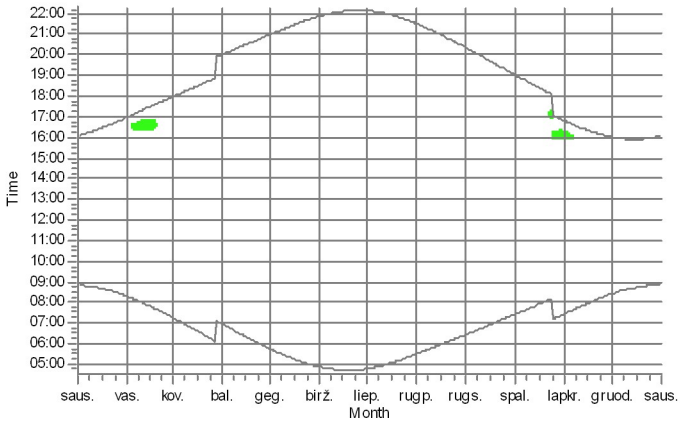
Shadow receptors

- A: Gyvenamasis pastatas: Barsukinës k. 8, Þeimiø sen., Jonavos r. sav. (1)
- B: Gyvenamasis pastatas: Barsukinës k. 6, Þeimiø sen., Jonavos r. sav. (2)
- C: Gyvenamasis pastatas: Barsukinës k. 4, Þeimiø sen., Jonavos r. sav. (3)
- D: Gyvenamasis pastatas: Neturi adreso (4)
- G: Gyvenamasis pastatas: Ðviesos g. 1A, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (7)
- H: Gyvenamasis pastatas: Ðviesos g. 2, Naujasodþio k., Þeimiø sen., Jonavos r. sav. (8)
- I: Gyvenamasis pastatas: Barsukinës k. 2, Þeimiø sen., Jonavos r. sav. (9)
- J: Gyvenamasis pastatas: Barsukinës k. 1, Þeimiø sen., Jonavos r. sav. (10)
- M: Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)
- N: Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

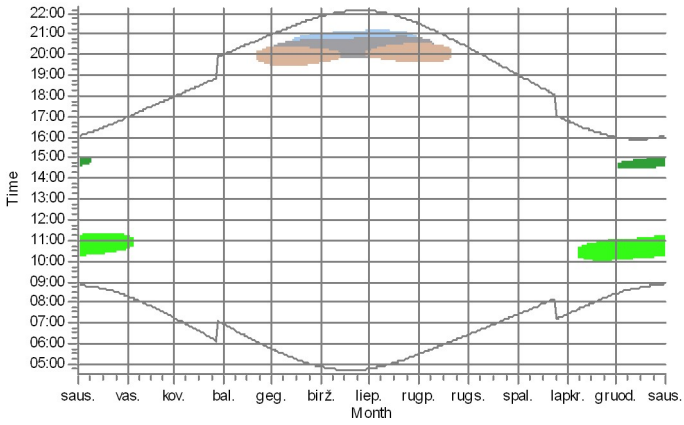
SHADOW - Calendar per WTG, graphical

Calculation: Suminis: Planuojamos+Foninės

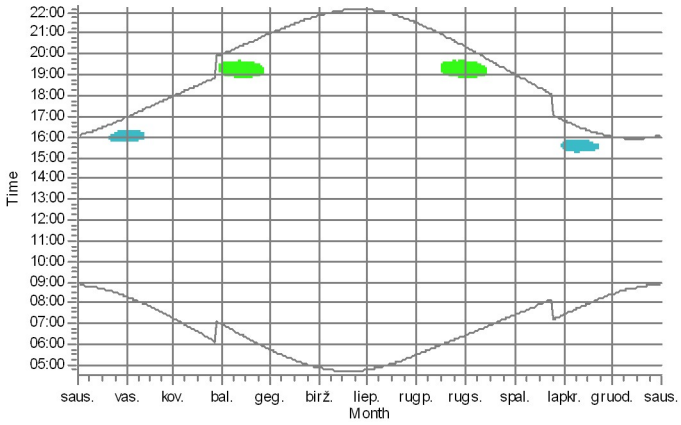
7: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (21)



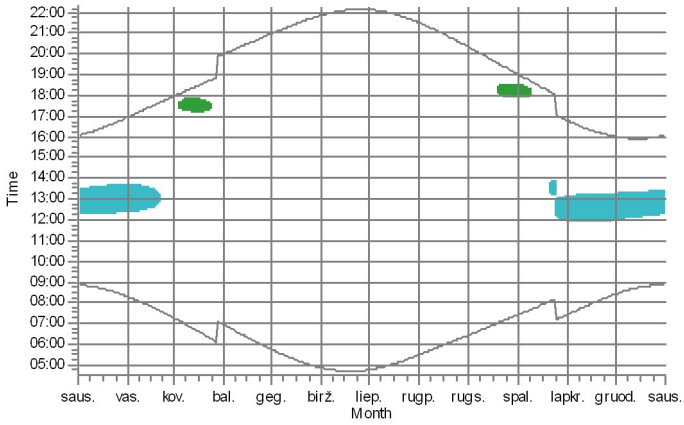
8: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (22)



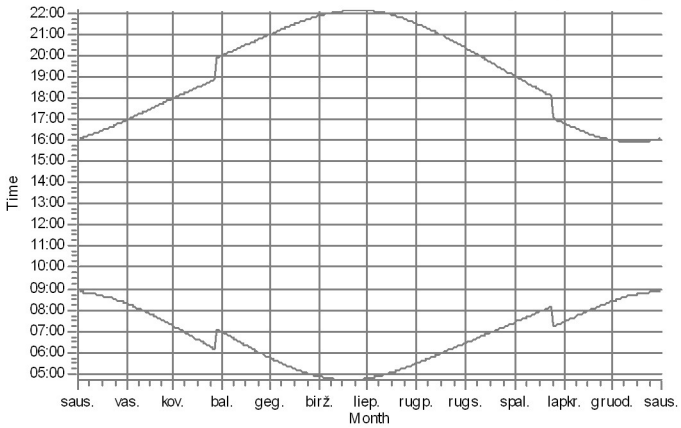
9: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (24)



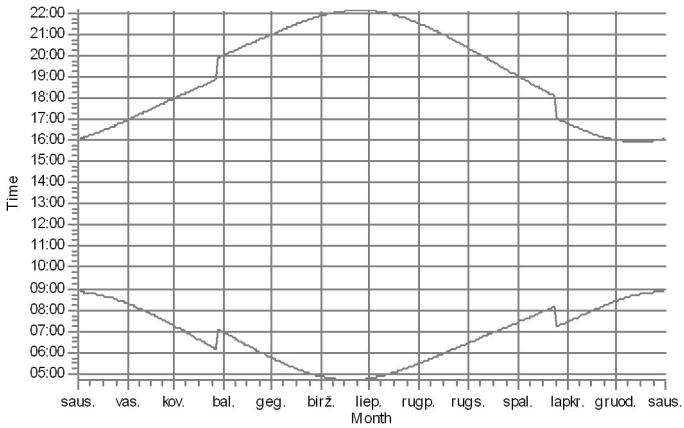
10: .... 8000 200.0 !O! hub: 180,0 m (TOT: 280,0 m) (25)



11: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



12: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



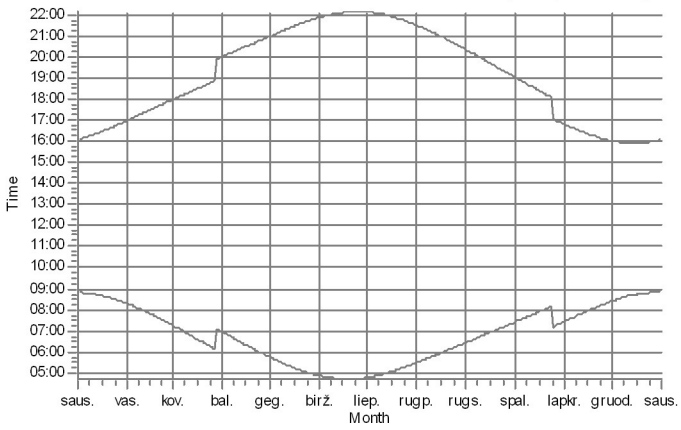
Shadow receptors

- O: Gyvenamasis pastatas: Akliø k. 3, Þeimiø sen., Jonavos r. sav. (15)
- P: Gyvenamasis pastatas: Akliø k. 2, Þeimiø sen., Jonavos r. sav. (16)
- Q: Gyvenamasis pastatas: Akliø k. 5, Þeimiø sen., Jonavos r. sav. (17)
- R: Gyvenamasis pastatas: Akliø k. 8, Þeimiø sen., Jonavos r. sav. (18)
- S: Gyvenamasis pastatas: Normainëliø k. 1, Þeimiø sen., Jonavos r. sav. (19)
- T: Gyvenamasis pastatas: Normainëliø I k. 3, Þeimiø sen., Jonavos r. sav. (20)

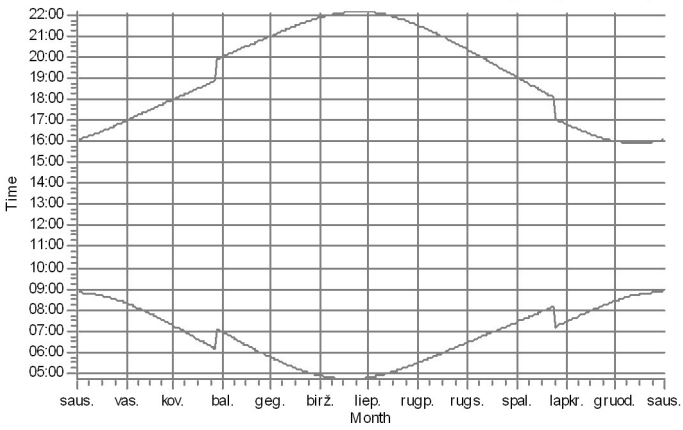
SHADOW - Calendar per WTG, graphical

Calculation: Suminis: Planuojamos+Foninės

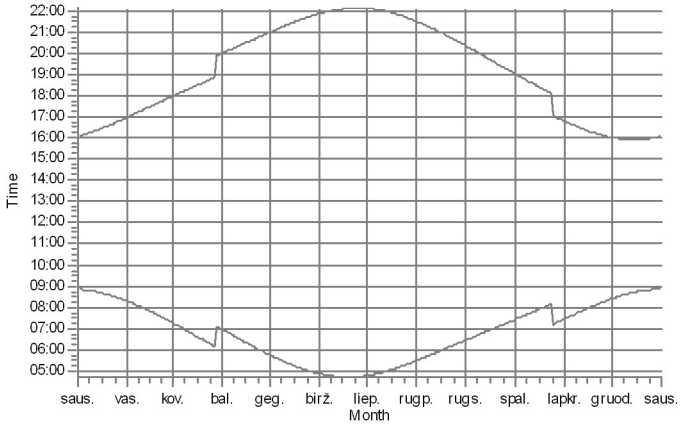
13: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



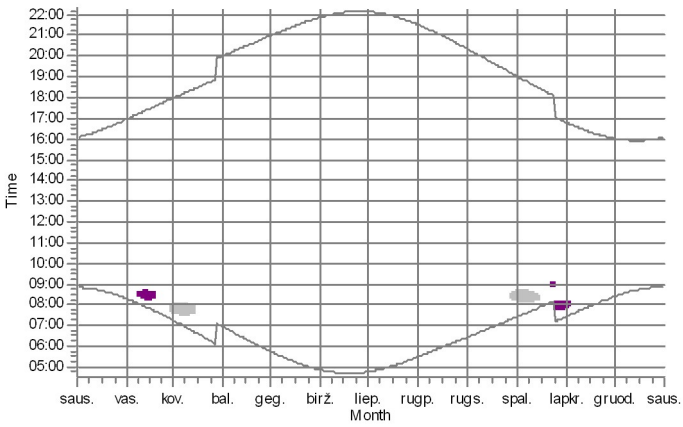
14: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



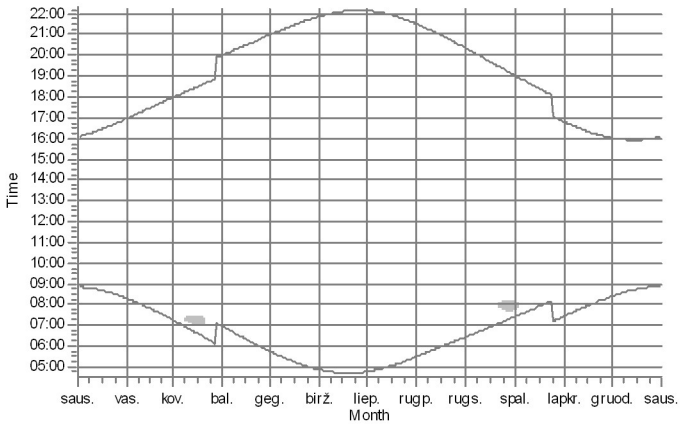
15: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



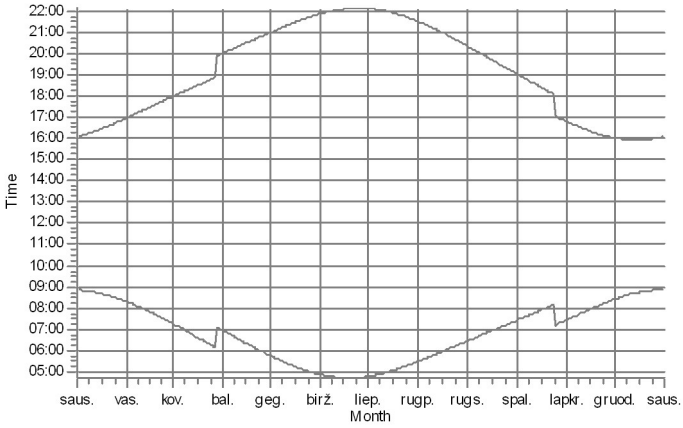
16: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



17: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



18: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



Shadow receptors

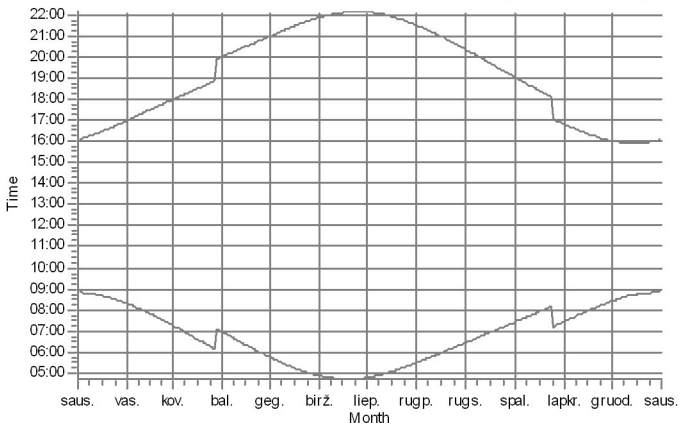
K: Gyvenamasis pastatas: Paduobiø k. 4, Þeimiø sen., Jonavos r. sav. (11)

L: Gyvenamasis pastatas: Paduobiø k. 7, Þeimiø sen., Jonavos r. sav. (12)

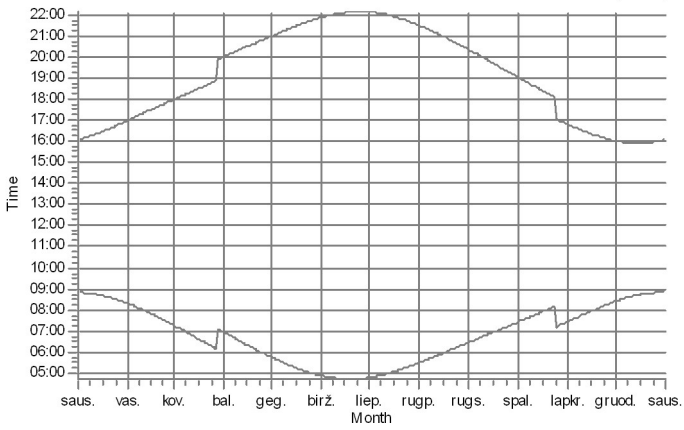
SHADOW - Calendar per WTG, graphical

Calculation: Suminis: Planuojamos+Foninės

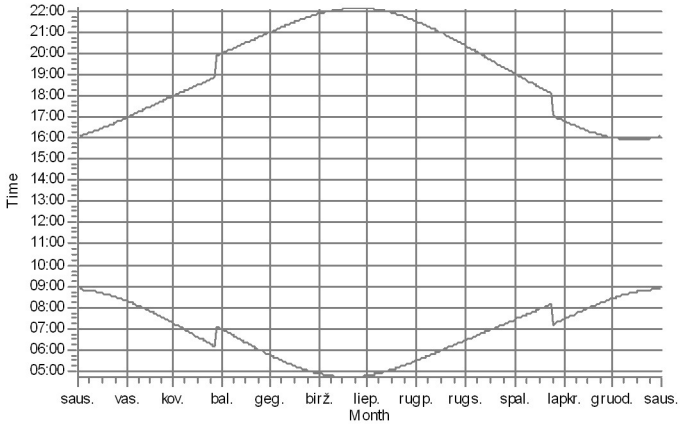
19: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



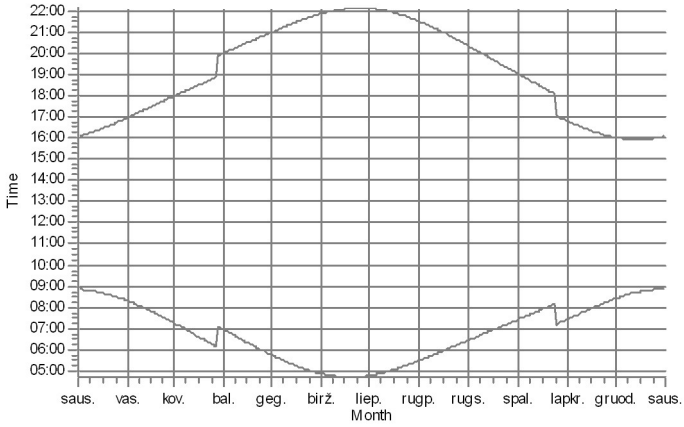
20: GE WIND ENERGY 5.5-158 Thrust 665 5500 158.0 !O! hub: 151,0 m (T



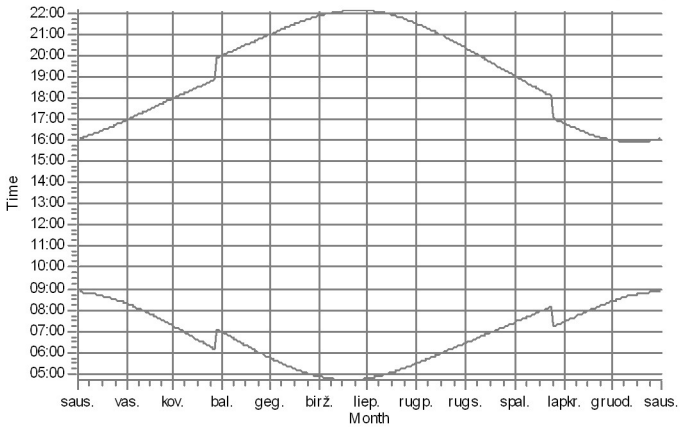
21: GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (T



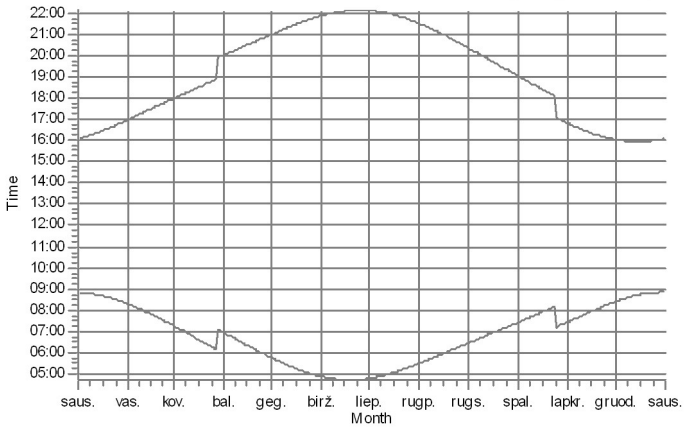
22: GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (T



23: GE WIND ENERGY 5.0-158 Thrust 665 5000 158.0 !O! hub: 151,0 m (T



24: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m

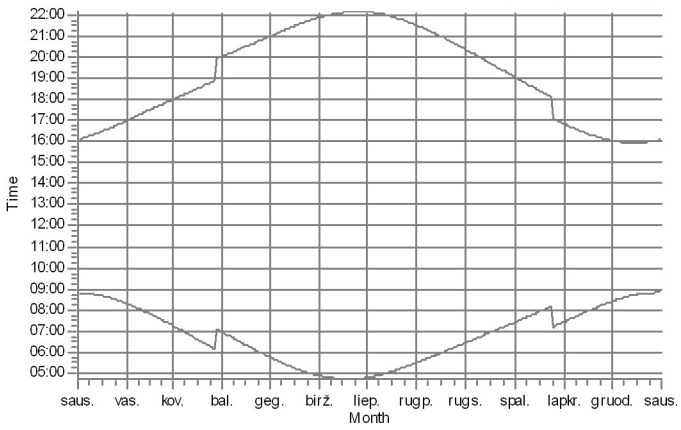


Shadow receptors

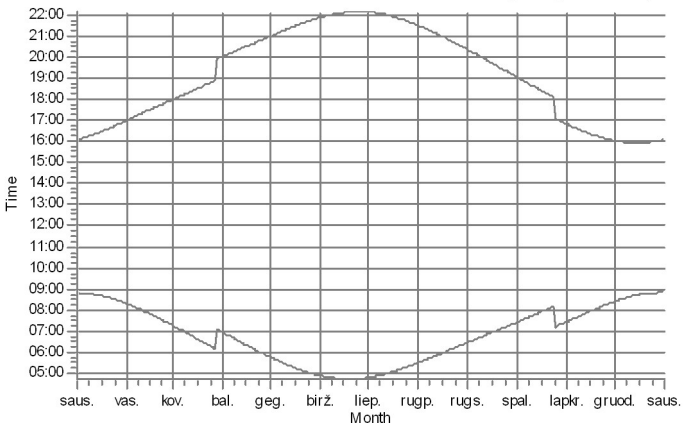
SHADOW - Calendar per WTG, graphical

Calculation: Suminis: Planuojamos+Foninės

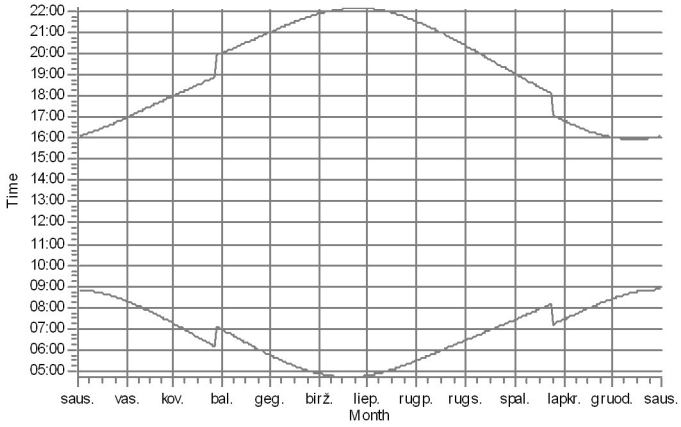
25: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



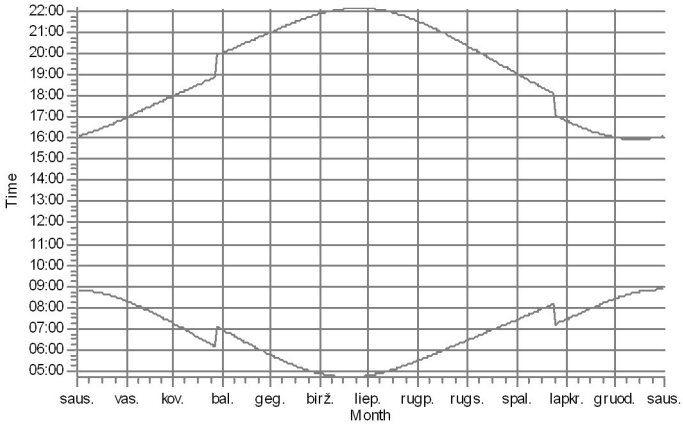
26: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



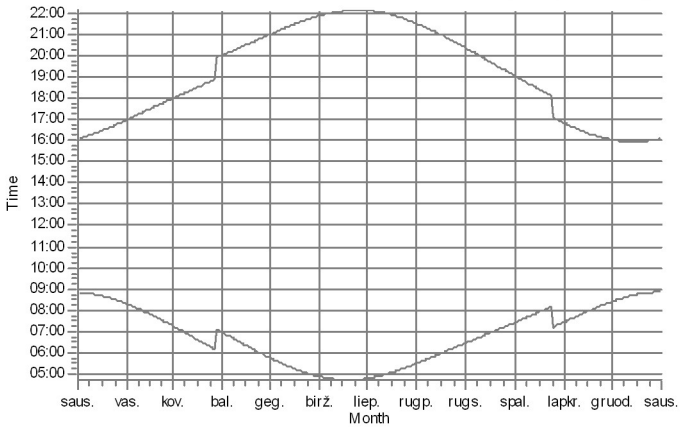
27: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



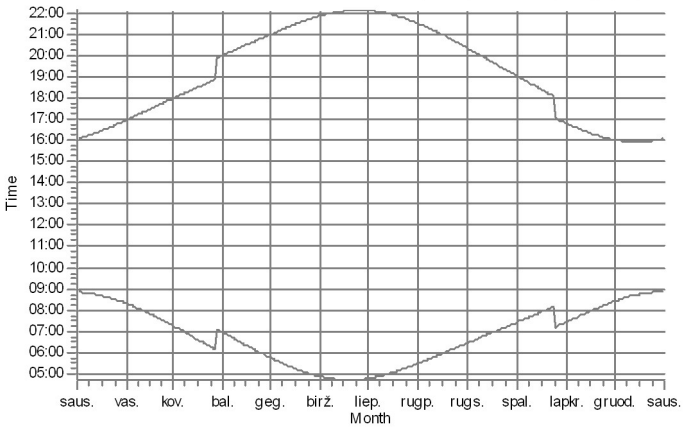
28: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



29: GE WIND ENERGY 6.0-164 6000 164.0 !O! hub: 167,0 m (TOT: 249,0 m



30: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (20)

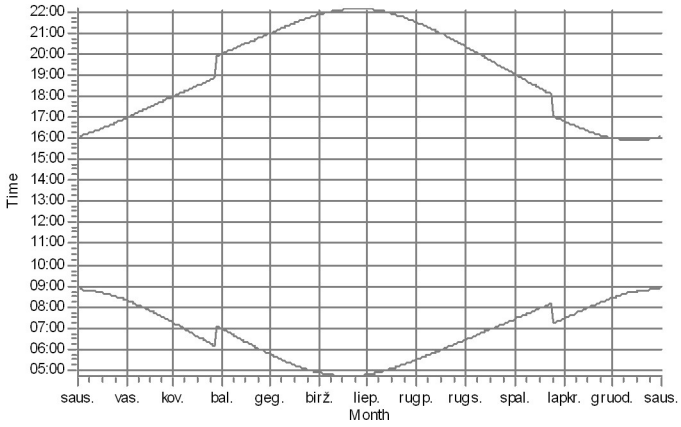


Shadow receptors

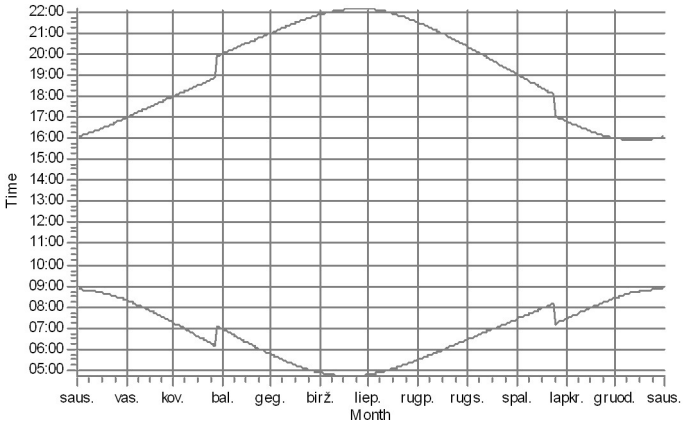
SHADOW - Calendar per WTG, graphical

Calculation: Suminis: Planuojamos+Foninės

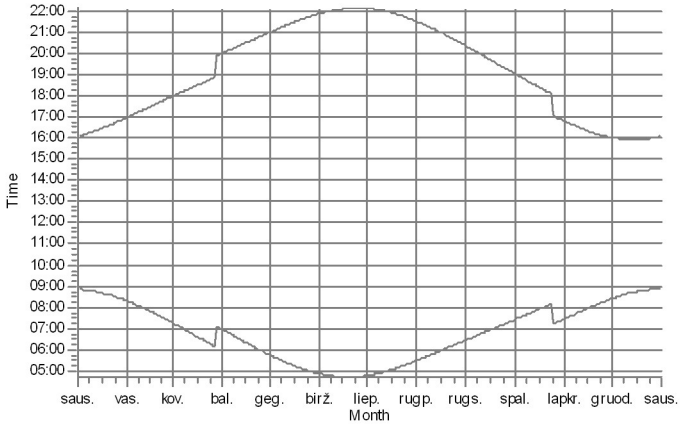
31: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (21)



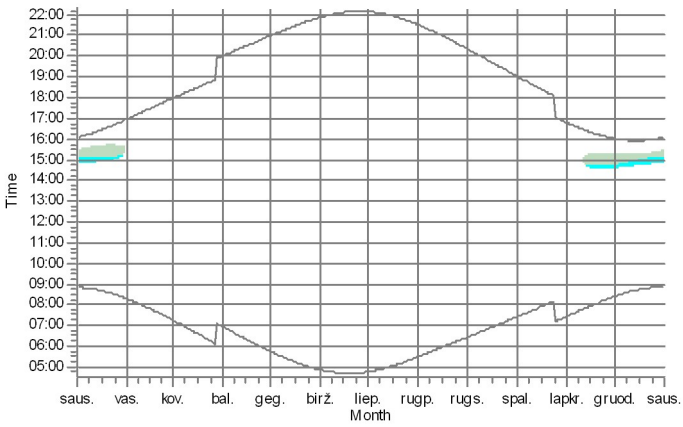
32: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (22)



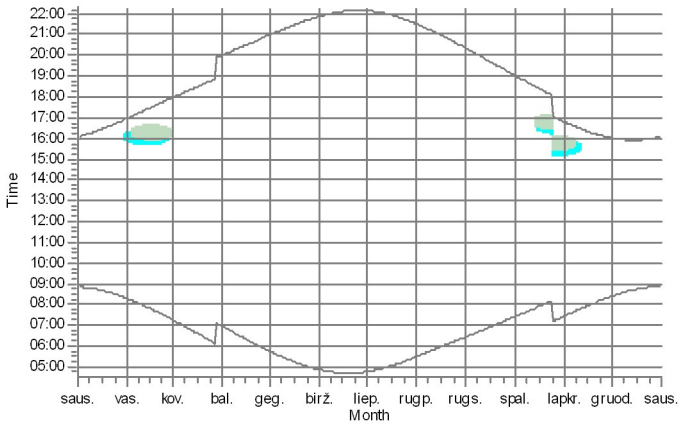
33: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (23)



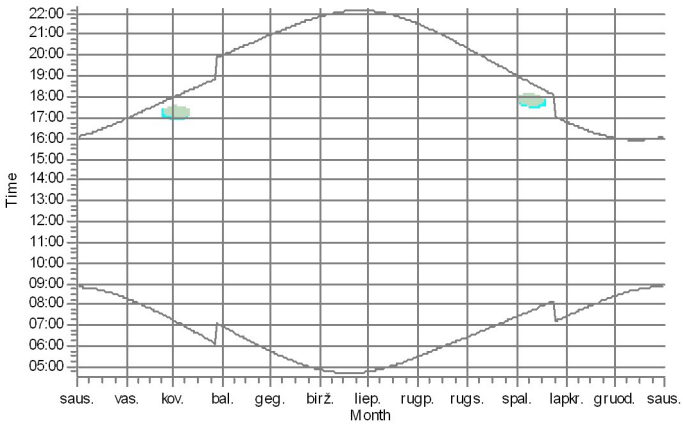
34: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (24)



35: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (25)



36: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (26)



Shadow receptors

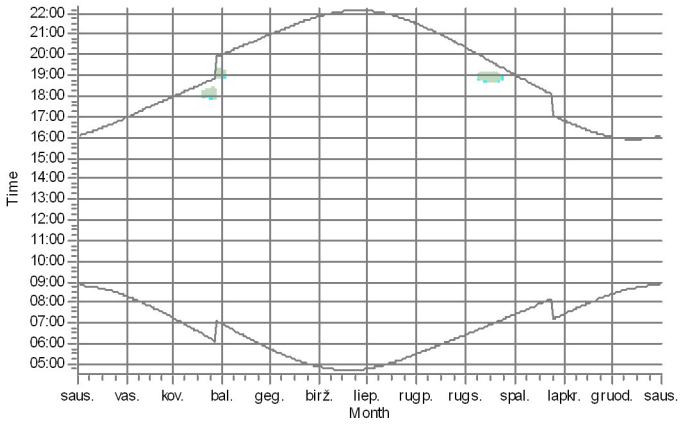
M: Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)

N: Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

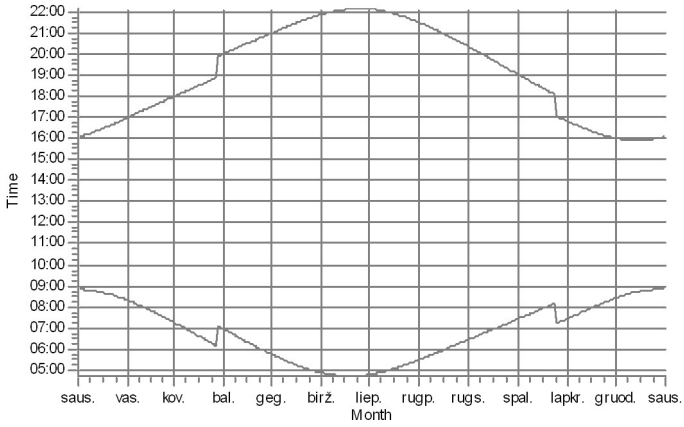
SHADOW - Calendar per WTG, graphical

Calculation: Suminis: Planuojamos+Foninės

37: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (27)



38: VESTAS V162 5600 162.0 !O! hub: 166,0 m (TOT: 247,0 m) (28)



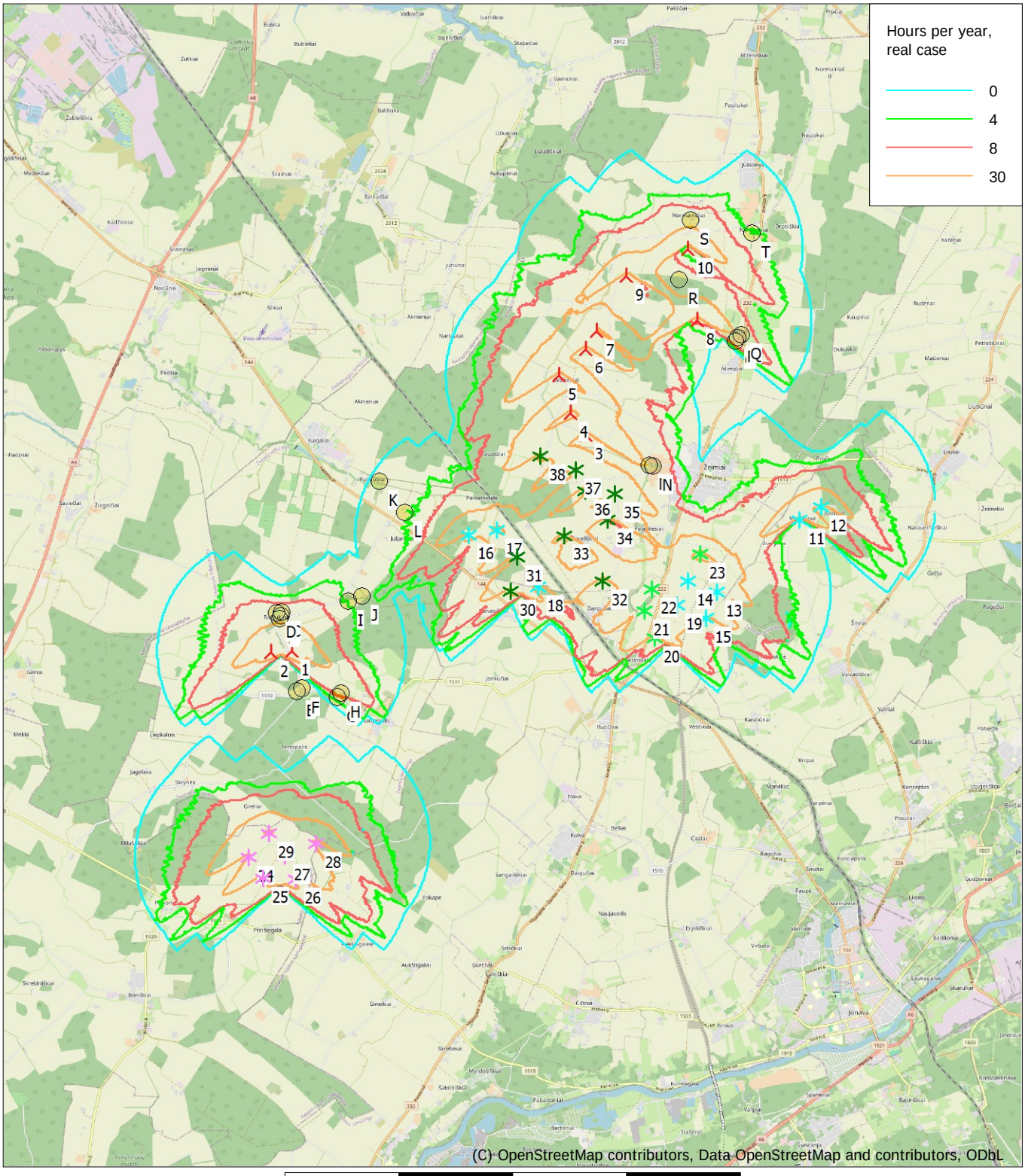
Shadow receptors

M: Gyvenamasis pastatas: Blauzdþiø k. 14, Þeimiø sen., Jonavos r. sav. (13)

N: Gyvenamasis pastatas: Blauzdþiø k. 12, Þeimiø sen., Jonavos r. sav. (14)

SHADOW - Map

Calculation: Suminis: Planuojamos+Foninës



Map: EMD OpenStreetMap , Print scale 1:125 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 510 420 North: 6 114 100

New WTG Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

1.6 Priedėlis. Kraštovaizdžio vertinimas

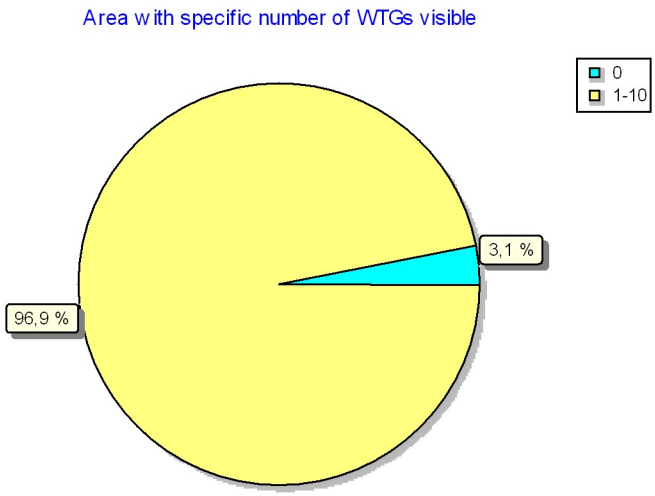
Project:
10 VE Jonavos r. ðeðëliavimas

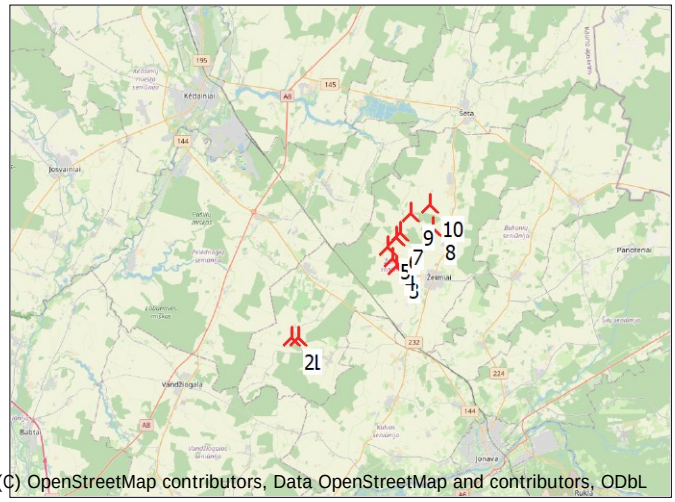
Licensed user:
UAB Infraplanas
Inovacijy k. 3, Biruliskiy k.,
LT-54469 Kauno r. sav.

Calculated:
2025-05-21 09:34/4.1.254

ZVI - Standard ZVI summary

Calculation: Planuojamos VE





Scale 1:500 000

New WTG

Assumptions for ZVI calculation

Center for calculation	Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857
Width of calculation area	25 000 m
Height of calculation area	25 000 m
Calculation step	25 m
Eye height	1,5 m
Calculation area	62 650 ha
WTG Calculation height	Hub height
Obstacles used in calculation	0
DHM object	Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)
No area objects used in calculation	
No grid objects used in calculation	
New WTGs used in calculation	10
Existing WTGs used in calculation	0

No maximum distance to WTG

ZVI Results

WTGs visible	Area [ha]	Area [%]
0	1 950	3,1
1	220	0,4
2	1 549	2,5
3	361	0,6
4	300	0,5
5	400	0,6
6	397	0,6
7	584	0,9
8	2 883	4,6
9	923	1,5
10	53 082	84,7

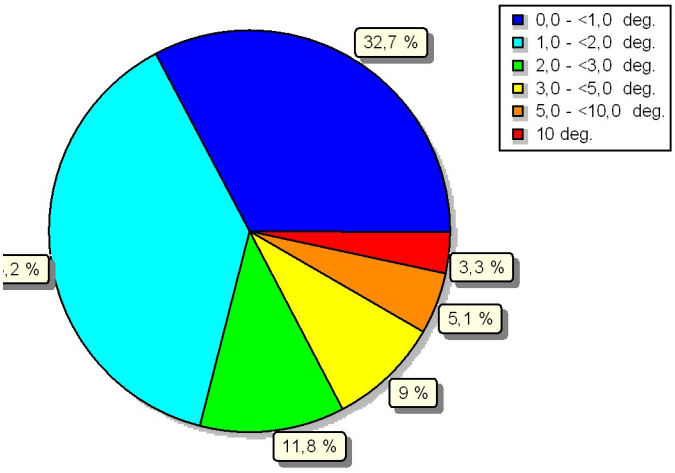
WTGs

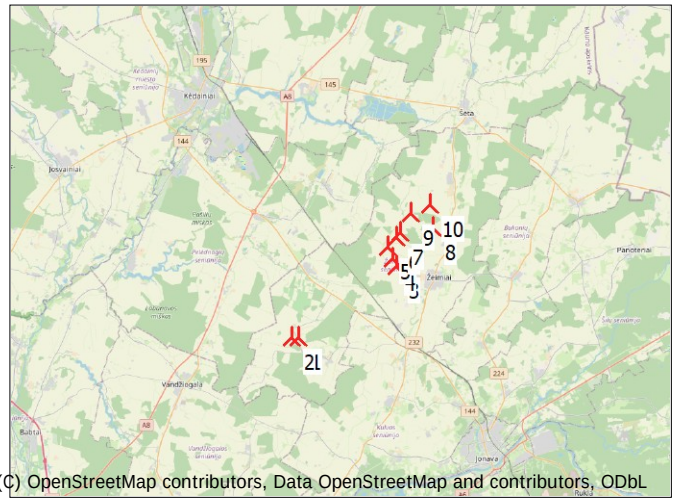
	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Y	X	Z [m]
1	Yes	....	-8 000	8 000	200,0	180,0	505 066	6 112 165	60,0
2	Yes	....	-8 000	8 000	200,0	180,0	504 615	6 112 148	60,0
3	Yes	....	-8 000	8 000	200,0	180,0	511 539	6 116 908	60,0
4	Yes	....	-8 000	8 000	200,0	180,0	511 222	6 117 399	60,0
5	Yes	....	-8 000	8 000	200,0	180,0	510 959	6 118 219	60,0
6	Yes	....	-8 000	8 000	200,0	180,0	511 530	6 118 807	60,0
7	Yes	....	-8 000	8 000	200,0	180,0	511 785	6 119 202	60,0
8	Yes	....	-8 000	8 000	200,0	180,0	513 980	6 119 458	63,3
9	Yes	....	-8 000	8 000	200,0	180,0	512 435	6 120 424	60,0
10	Yes	....	-8 000	8 000	200,0	180,0	513 775	6 121 028	60,0

ZVI - Vertical subtended angle

Calculation: Planuojamos VE

Area with specific vertical subtended angle





Scale 1:500 000

New WTG

Assumptions for ZVI calculation

Center for calculation	Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857
Width of calculation area	25 000 m
Height of calculation area	25 000 m
Calculation step	25 m
Eye height	1,5 m
Calculation area	62 625 ha
WTG Calculation height	Hub height
Obstacles used in calculation	0
DHM object	Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)
No area objects used in calculation	
No grid objects used in calculation	
New WTGs used in calculation	10
Existing WTGs used in calculation	0

No maximum distance to WTG

ZVI Results

Vertical subtended angle [deg]	Area [ha]	Area [%]
0,0 - <1,0	20509	32,7
1,0 - <2,0	23895	38,2
2,0 - <3,0	7365	11,8
3,0 - <5,0	5606	9,0
5,0 - <10,0	3192	5,1
10,0 - <=180,0	2057	3,3

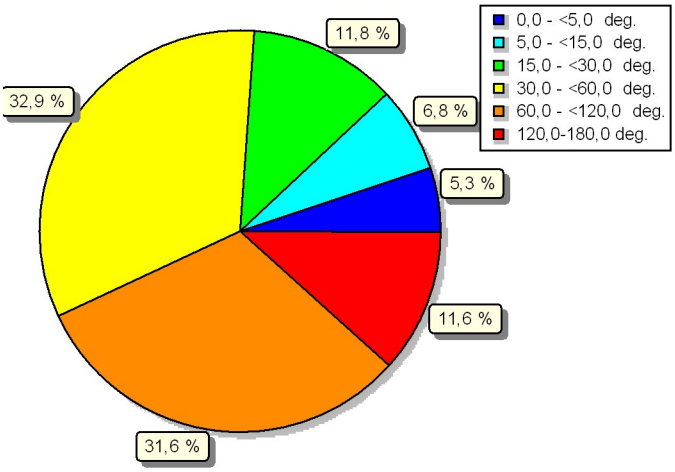
WTGs

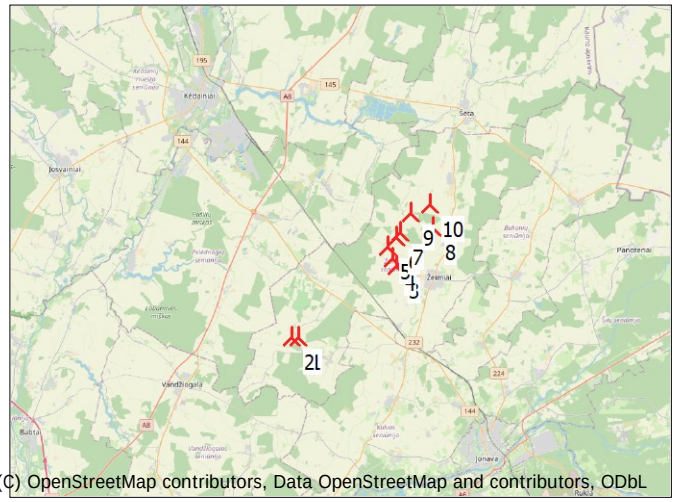
	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Y	X	Z [m]
1	Yes	....	-8 000	8 000	200,0	180,0	505 066	6 112 165	60,0
2	Yes	....	-8 000	8 000	200,0	180,0	504 615	6 112 148	60,0
3	Yes	....	-8 000	8 000	200,0	180,0	511 539	6 116 908	60,0
4	Yes	....	-8 000	8 000	200,0	180,0	511 222	6 117 399	60,0
5	Yes	....	-8 000	8 000	200,0	180,0	510 959	6 118 219	60,0
6	Yes	....	-8 000	8 000	200,0	180,0	511 530	6 118 807	60,0
7	Yes	....	-8 000	8 000	200,0	180,0	511 785	6 119 202	60,0
8	Yes	....	-8 000	8 000	200,0	180,0	513 980	6 119 458	63,3
9	Yes	....	-8 000	8 000	200,0	180,0	512 435	6 120 424	60,0
10	Yes	....	-8 000	8 000	200,0	180,0	513 775	6 121 028	60,0

ZVI - Horizontal subtended angle

Calculation: Planuojamos VE

Area with specific horizontal subtended angle





Scale 1:500 000

New WTG

Assumptions for ZVI calculation

Center for calculation	Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857
Width of calculation area	25 000 m
Height of calculation area	25 000 m
Calculation step	25 m
Eye height	1,5 m
Calculation area	62 625 ha
WTG Calculation height	Hub height
Obstacles used in calculation	0
DHM object	Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)
No area objects used in calculation	
No grid objects used in calculation	
New WTGs used in calculation	10
Existing WTGs used in calculation	0

No maximum distance to WTG

ZVI Results

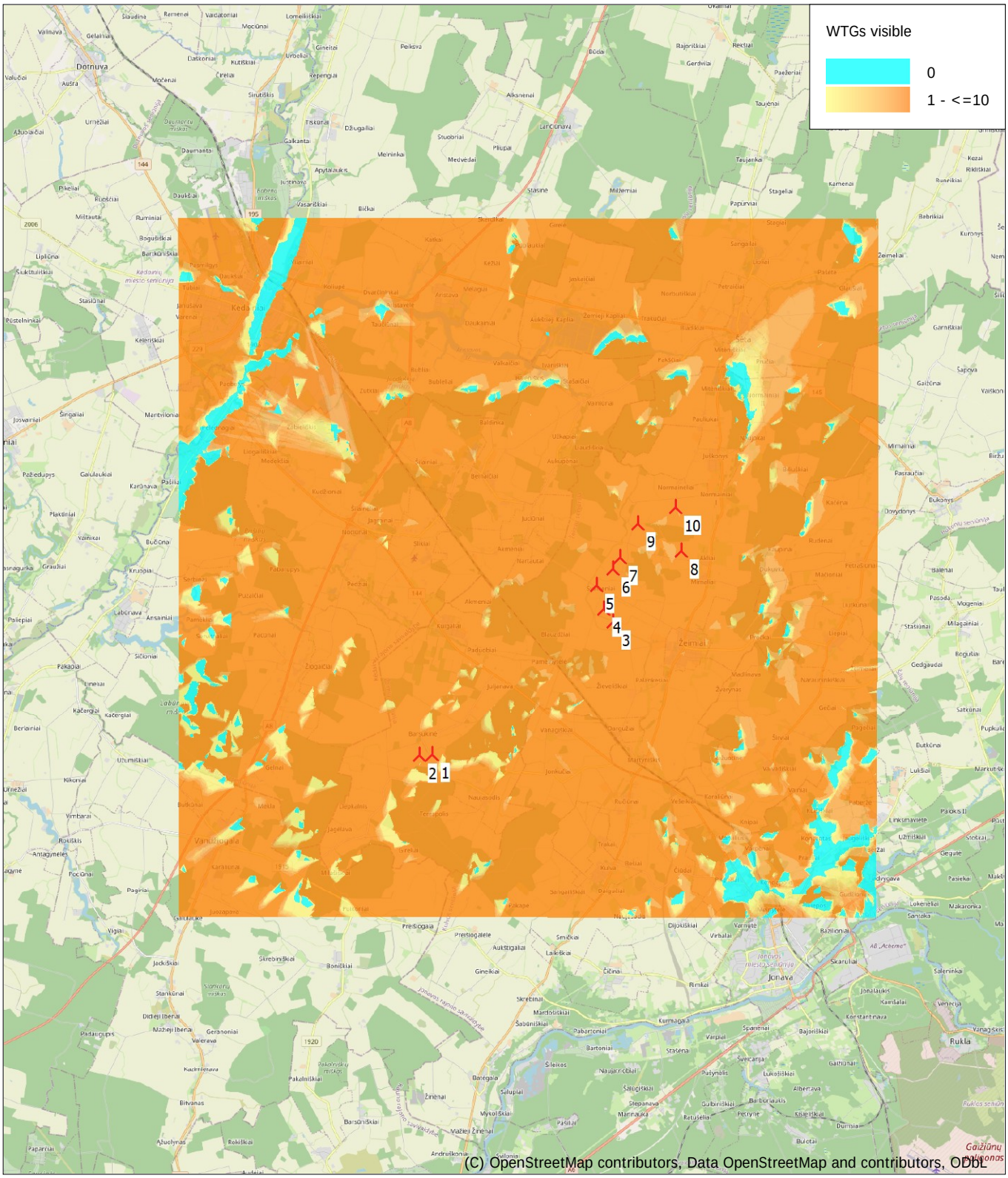
Horizontal subtended angle [deg]	Area [ha]	Area [%]
0,0 - <5,0	3299	5,3
5,0 - <15,0	4279	6,8
15,0 - <30,0	7408	11,8
30,0 - <60,0	20585	32,9
60,0 - <120,0	19763	31,6
120,0 - <=180,0	7291	11,6

WTGs

	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Y	X	Z [m]
1	Yes	....	-8 000	8 000	200,0	180,0	505 066	6 112 165	60,0
2	Yes	....	-8 000	8 000	200,0	180,0	504 615	6 112 148	60,0
3	Yes	....	-8 000	8 000	200,0	180,0	511 539	6 116 908	60,0
4	Yes	....	-8 000	8 000	200,0	180,0	511 222	6 117 399	60,0
5	Yes	....	-8 000	8 000	200,0	180,0	510 959	6 118 219	60,0
6	Yes	....	-8 000	8 000	200,0	180,0	511 530	6 118 807	60,0
7	Yes	....	-8 000	8 000	200,0	180,0	511 785	6 119 202	60,0
8	Yes	....	-8 000	8 000	200,0	180,0	513 980	6 119 458	63,3
9	Yes	....	-8 000	8 000	200,0	180,0	512 435	6 120 424	60,0
10	Yes	....	-8 000	8 000	200,0	180,0	513 775	6 121 028	60,0

ZVI - Map Standard ZVI summary

Calculation: Planuojamos VE



0 2,5 5 7,5 10km

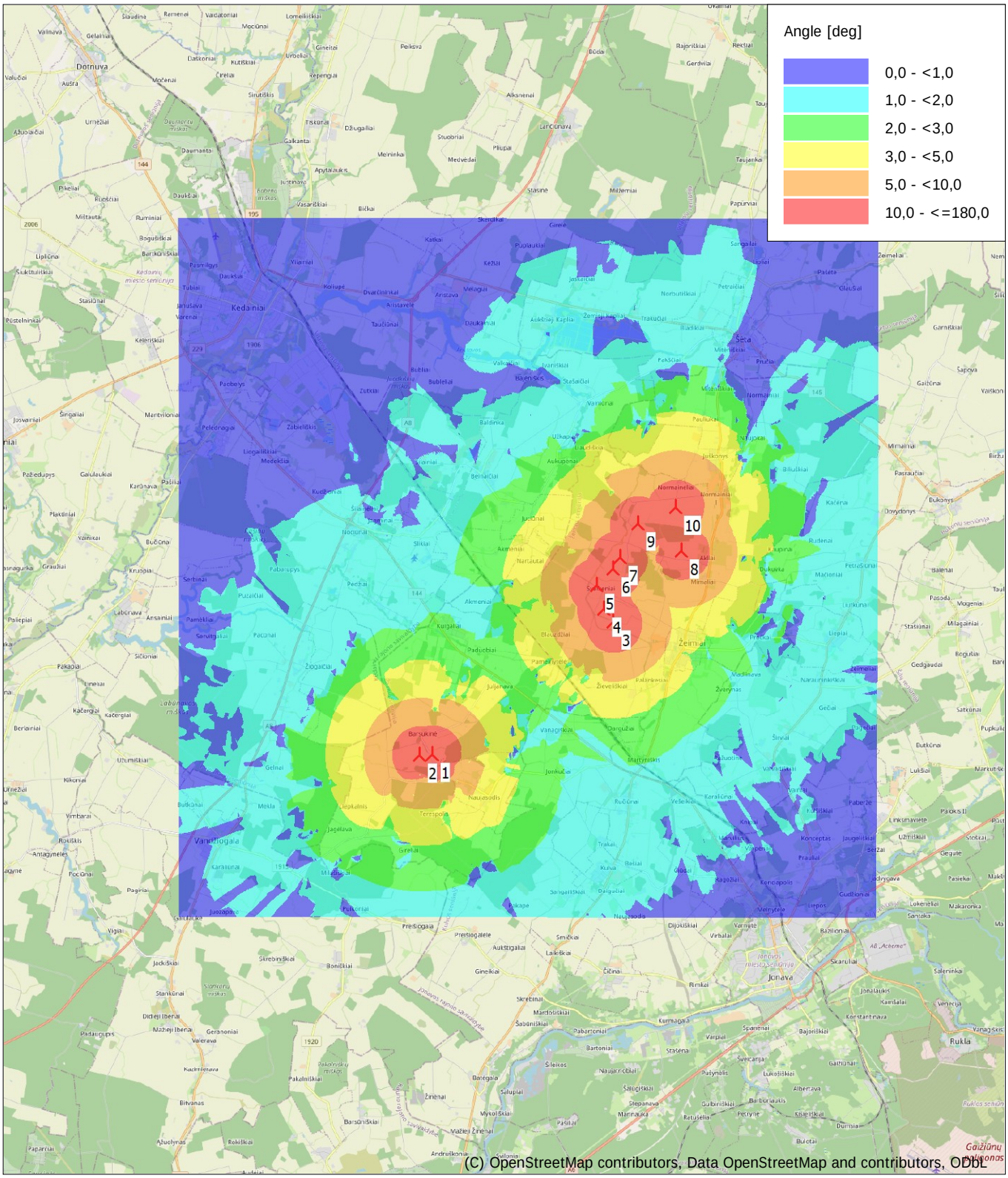
Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857

New WTG

Grid step: 25 m - Eye height: 1,5 m - Calculation height: Hub height

ZVI - Map Vertical subtended angle

Calculation: Planuojamos VE



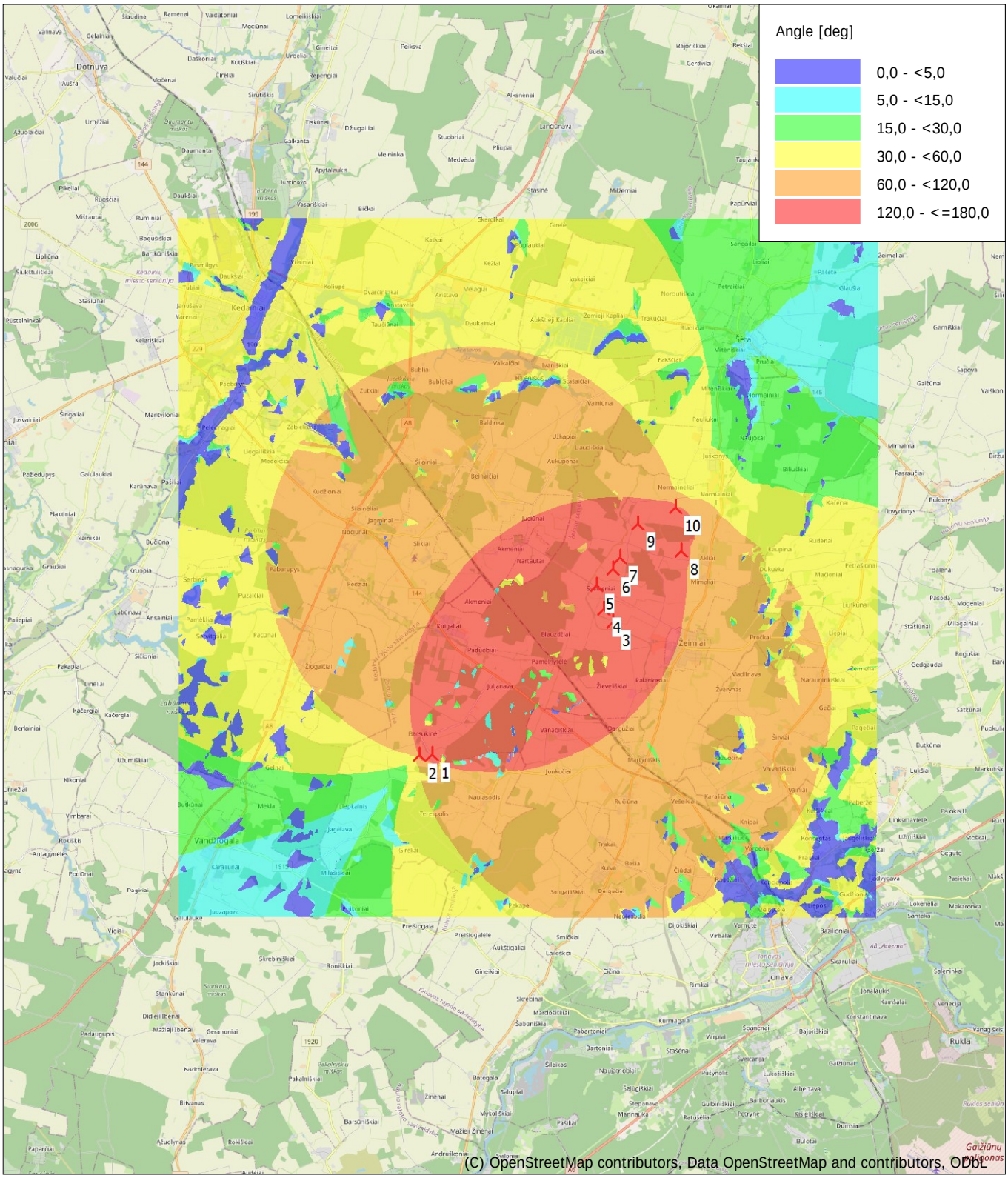
0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857

New WTG

ZVI - Map Horizontal subtended angle

Calculation: Planuojamos VE



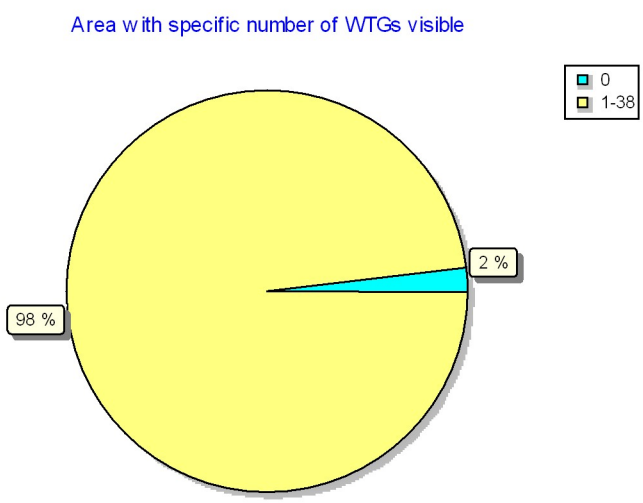
0 2,5 5 7,5 10km

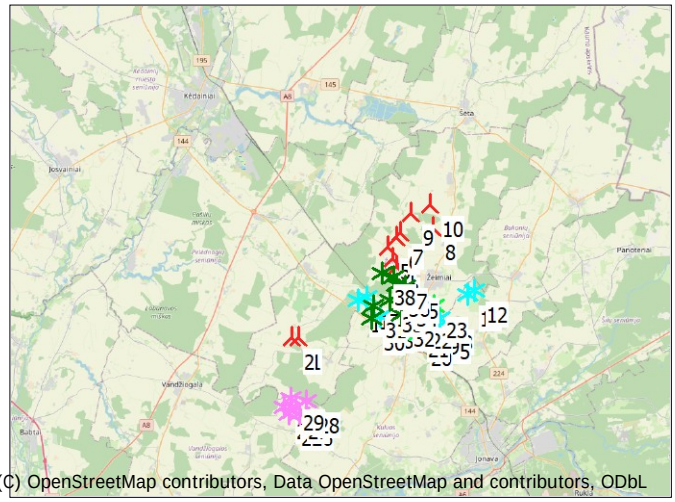
Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857

New WTG

ZVI - Standard ZVI summary

Calculation: Suminis poveikis





Scale 1:500 000

New WTG Existing WTG

Assumptions for ZVI calculation

Center for calculation	Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857
Width of calculation area	25 000 m
Height of calculation area	25 000 m
Calculation step	25 m
Eye height	1,5 m
Calculation area	62 650 ha
WTG Calculation height	Hub height
Obstacles used in calculation	0
DHM object	Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)
No area objects used in calculation	
No grid objects used in calculation	
New WTGs used in calculation	10
Existing WTGs used in calculation	28

No maximum distance to WTG

ZVI Results

WTGs visible	Area [ha]	Area [%]
0	1 265	2,0
1	134	0,2
2	290	0,5
3	131	0,2
4	172	0,3
5	172	0,3
6	250	0,4
7	199	0,3
8	644	1,0
9	209	0,3
10	201	0,3
11	160	0,3
12	162	0,3
13	210	0,3
14	168	0,3
15	171	0,3
16	158	0,3
17	154	0,2
18	163	0,3
19	172	0,3
20	192	0,3
21	206	0,3
22	211	0,3
23	214	0,3
23-38	56 856	90,8

WTGs

	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Y	X	Z [m]
1	Yes	....	-8 000	8 000	200,0	180,0	505 066	6 112 165	60,0
2	Yes	....	-8 000	8 000	200,0	180,0	504 615	6 112 148	60,0
3	Yes	....	-8 000	8 000	200,0	180,0	511 539	6 116 908	60,0
4	Yes	....	-8 000	8 000	200,0	180,0	511 222	6 117 399	60,0
5	Yes	....	-8 000	8 000	200,0	180,0	510 959	6 118 219	60,0
6	Yes	....	-8 000	8 000	200,0	180,0	511 530	6 118 807	60,0
7	Yes	....	-8 000	8 000	200,0	180,0	511 785	6 119 202	60,0
8	Yes	....	-8 000	8 000	200,0	180,0	513 980	6 119 458	63,3
9	Yes	....	-8 000	8 000	200,0	180,0	512 435	6 120 424	60,0
10	Yes	....	-8 000	8 000	200,0	180,0	513 775	6 121 028	60,0
11	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	516 258	6 115 067	70,0
12	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	516 724	6 115 361	70,0
13	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	514 431	6 113 473	69,2
14	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	513 801	6 113 708	67,7
15	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	514 206	6 112 903	67,5
16	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	508 976	6 114 735	60,0
17	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	509 582	6 114 845	60,0
18	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	510 506	6 113 569	66,9
19	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	513 575	6 113 197	64,7
20	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	513 058	6 112 467	63,6
21	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	512 838	6 113 059	61,2
22	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	512 996	6 113 540	63,8
23	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	514 062	6 114 314	70,0
24	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 125	6 107 635	70,0
25	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 453	6 107 182	70,0
26	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	505 171	6 107 171	70,0
27	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 923	6 107 664	70,0
28	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	505 608	6 107 960	70,0
29	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 569	6 108 172	70,0
30	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	509 897	6 113 484	60,0

To be continued on next page...

ZVI - Standard ZVI summary

Calculation: Suminis poveikis

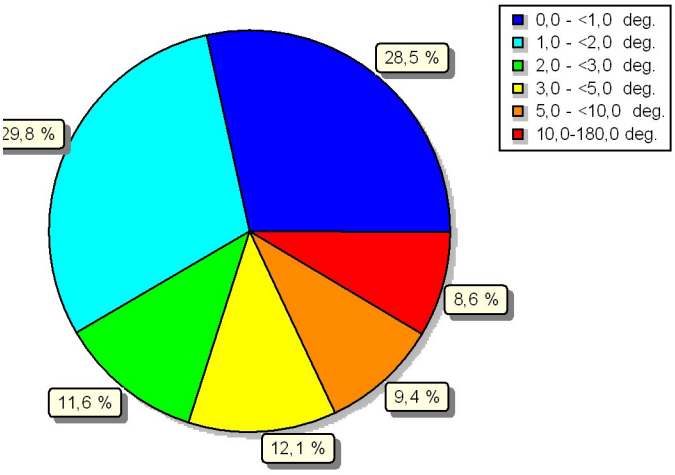
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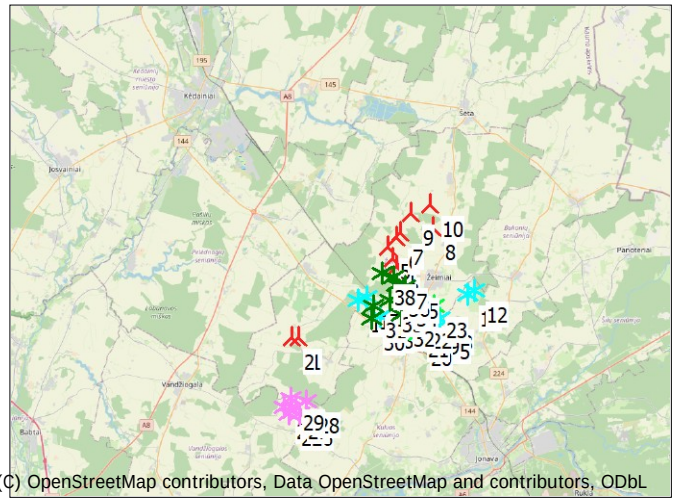
	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Y	X	Z [m]
31	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	510 043	6 114 232	61,7
32	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 915	6 113 715	64,0
33	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 063	6 114 701	60,0
34	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	512 024	6 115 057	62,7
35	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	512 170	6 115 628	60,0
36	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 515	6 115 700	60,0
37	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 319	6 116 162	60,0
38	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	510 542	6 116 457	60,0

ZVI - Vertical subtended angle

Calculation: Suminis poveikis

Area with specific vertical subtended angle





Scale 1:500 000

New WTG Existing WTG

Assumptions for ZVI calculation

Center for calculation	Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857
Width of calculation area	25 000 m
Height of calculation area	25 000 m
Calculation step	25 m
Eye height	1,5 m
Calculation area	62 625 ha
WTG Calculation height	Hub height
Obstacles used in calculation	0
DHM object	Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)
No area objects used in calculation	
No grid objects used in calculation	
New WTGs used in calculation	10
Existing WTGs used in calculation	28

No maximum distance to WTG

ZVI Results

Vertical subtended angle [deg]	Area [ha]	Area [%]
0,0 - <1,0	17844	28,5
1,0 - <2,0	18640	29,8
2,0 - <3,0	7290	11,6
3,0 - <5,0	7594	12,1
5,0 - <10,0	5890	9,4
10,0 - <=180,0	5367	8,6

WTGs

	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Y	X	Z [m]
1	Yes	....	-8 000	8 000	200,0	180,0	505 066	6 112 165	60,0
2	Yes	....	-8 000	8 000	200,0	180,0	504 615	6 112 148	60,0
3	Yes	....	-8 000	8 000	200,0	180,0	511 539	6 116 908	60,0
4	Yes	....	-8 000	8 000	200,0	180,0	511 222	6 117 399	60,0
5	Yes	....	-8 000	8 000	200,0	180,0	510 959	6 118 219	60,0
6	Yes	....	-8 000	8 000	200,0	180,0	511 530	6 118 807	60,0
7	Yes	....	-8 000	8 000	200,0	180,0	511 785	6 119 202	60,0
8	Yes	....	-8 000	8 000	200,0	180,0	513 980	6 119 458	63,3
9	Yes	....	-8 000	8 000	200,0	180,0	512 435	6 120 424	60,0
10	Yes	....	-8 000	8 000	200,0	180,0	513 775	6 121 028	60,0
11	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	516 258	6 115 067	70,0
12	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	516 724	6 115 361	70,0
13	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	514 431	6 113 473	69,2
14	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	513 801	6 113 708	67,7
15	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	514 206	6 112 903	67,5
16	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	508 976	6 114 735	60,0
17	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	509 582	6 114 845	60,0
18	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	510 506	6 113 569	66,9
19	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	513 575	6 113 197	64,7
20	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	513 058	6 112 467	63,6
21	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	512 838	6 113 059	61,2
22	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	512 996	6 113 540	63,8
23	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	514 062	6 114 314	70,0
24	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 125	6 107 635	70,0
25	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 453	6 107 182	70,0
26	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	505 171	6 107 171	70,0
27	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 923	6 107 664	70,0
28	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	505 608	6 107 960	70,0
29	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 569	6 108 172	70,0
30	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	509 897	6 113 484	60,0

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ZVI - Vertical subtended angle

Calculation: Suminis poveikis

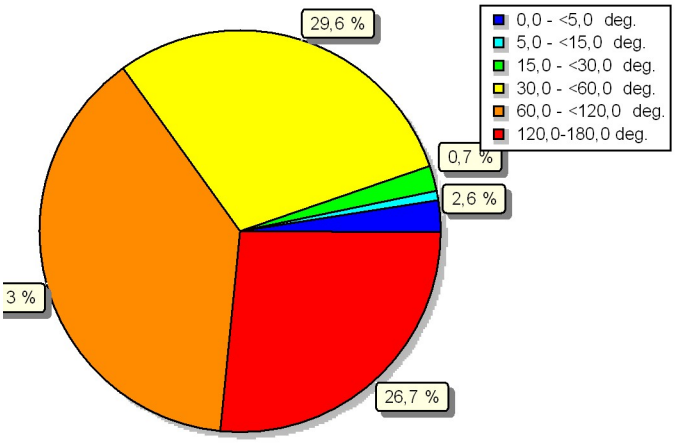
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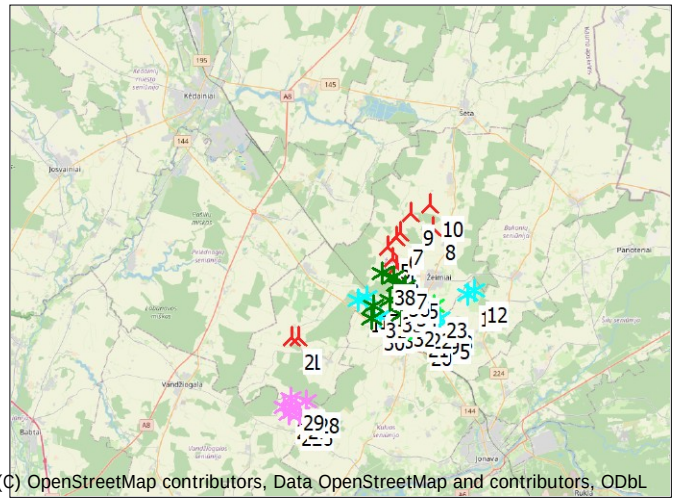
	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Y	X	Z [m]
31	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	510 043	6 114 232	61,7
32	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 915	6 113 715	64,0
33	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 063	6 114 701	60,0
34	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	512 024	6 115 057	62,7
35	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	512 170	6 115 628	60,0
36	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 515	6 115 700	60,0
37	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 319	6 116 162	60,0
38	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	510 542	6 116 457	60,0

ZVI - Horizontal subtended angle

Calculation: Suminis poveikis

Area with specific horizontal subtended angle





Scale 1:500 000

New WTG Existing WTG

Assumptions for ZVI calculation

Center for calculation	Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857
Width of calculation area	25 000 m
Height of calculation area	25 000 m
Calculation step	25 m
Eye height	1,5 m
Calculation area	62 625 ha
WTG Calculation height	Hub height
Obstacles used in calculation	0
DHM object	Height Contours: CONTOURLINE_33 VE Jonavos r_5.wpo (6)
No area objects used in calculation	
No grid objects used in calculation	
New WTGs used in calculation	10
Existing WTGs used in calculation	28

No maximum distance to WTG

ZVI Results

Horizontal subtended angle [deg]	Area [ha]	Area [%]
0,0 - <5,0	1624	2,6
5,0 - <15,0	446	0,7
15,0 - <30,0	1306	2,1
30,0 - <60,0	18540	29,6
60,0 - <120,0	23991	38,3
120,0 - <=180,0	16718	26,7

WTGs

	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Y	X	Z [m]
1	Yes	....	-8 000	8 000	200,0	180,0	505 066	6 112 165	60,0
2	Yes	....	-8 000	8 000	200,0	180,0	504 615	6 112 148	60,0
3	Yes	....	-8 000	8 000	200,0	180,0	511 539	6 116 908	60,0
4	Yes	....	-8 000	8 000	200,0	180,0	511 222	6 117 399	60,0
5	Yes	....	-8 000	8 000	200,0	180,0	510 959	6 118 219	60,0
6	Yes	....	-8 000	8 000	200,0	180,0	511 530	6 118 807	60,0
7	Yes	....	-8 000	8 000	200,0	180,0	511 785	6 119 202	60,0
8	Yes	....	-8 000	8 000	200,0	180,0	513 980	6 119 458	63,3
9	Yes	....	-8 000	8 000	200,0	180,0	512 435	6 120 424	60,0
10	Yes	....	-8 000	8 000	200,0	180,0	513 775	6 121 028	60,0
11	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	516 258	6 115 067	70,0
12	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	516 724	6 115 361	70,0
13	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	514 431	6 113 473	69,2
14	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	513 801	6 113 708	67,7
15	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	514 206	6 112 903	67,5
16	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	508 976	6 114 735	60,0
17	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	509 582	6 114 845	60,0
18	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	510 506	6 113 569	66,9
19	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	513 575	6 113 197	64,7
20	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	513 058	6 112 467	63,6
21	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	512 838	6 113 059	61,2
22	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	512 996	6 113 540	63,8
23	No	GE WIND ENERGY	5.5-158 Thrust 665-5 500	5 500	158,0	151,0	514 062	6 114 314	70,0
24	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 125	6 107 635	70,0
25	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 453	6 107 182	70,0
26	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	505 171	6 107 171	70,0
27	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 923	6 107 664	70,0
28	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	505 608	6 107 960	70,0
29	Yes	GE WIND ENERGY	6.0-164-6 000	6 000	164,0	167,0	504 569	6 108 172	70,0
30	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	509 897	6 113 484	60,0

To be continued on next page...

ZVI - Horizontal subtended angle

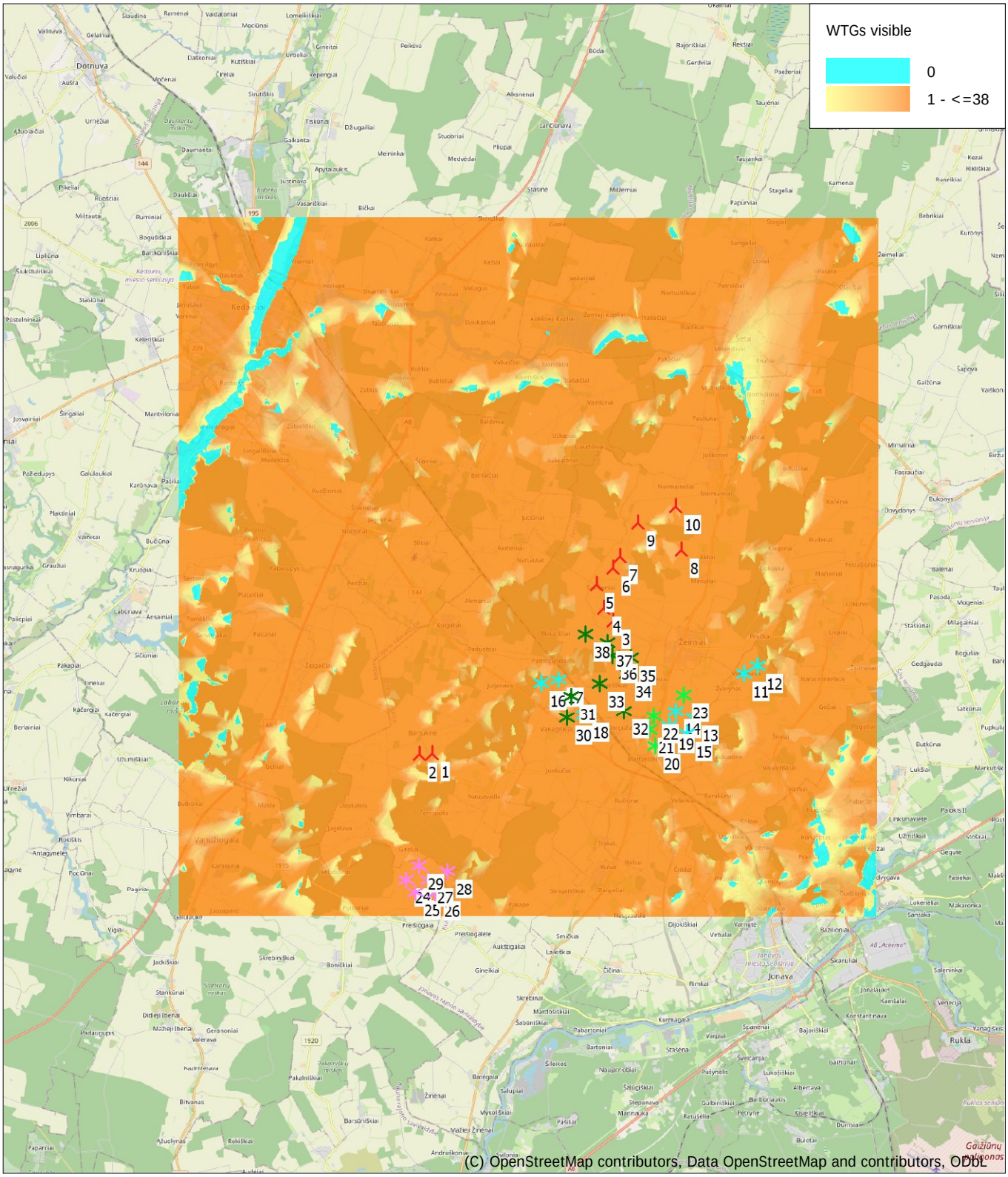
Calculation: Suminis poveikis

...continued from previous page

	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Y	X	Z [m]
31	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	510 043	6 114 232	61,7
32	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 915	6 113 715	64,0
33	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 063	6 114 701	60,0
34	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	512 024	6 115 057	62,7
35	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	512 170	6 115 628	60,0
36	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 515	6 115 700	60,0
37	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	511 319	6 116 162	60,0
38	Yes	VESTAS	V162-5 600	5 600	162,0	166,0	510 542	6 116 457	60,0

ZVI - Map Standard ZVI summary

Calculation: Suminis poveikis



0 2,5 5 7,5 10km

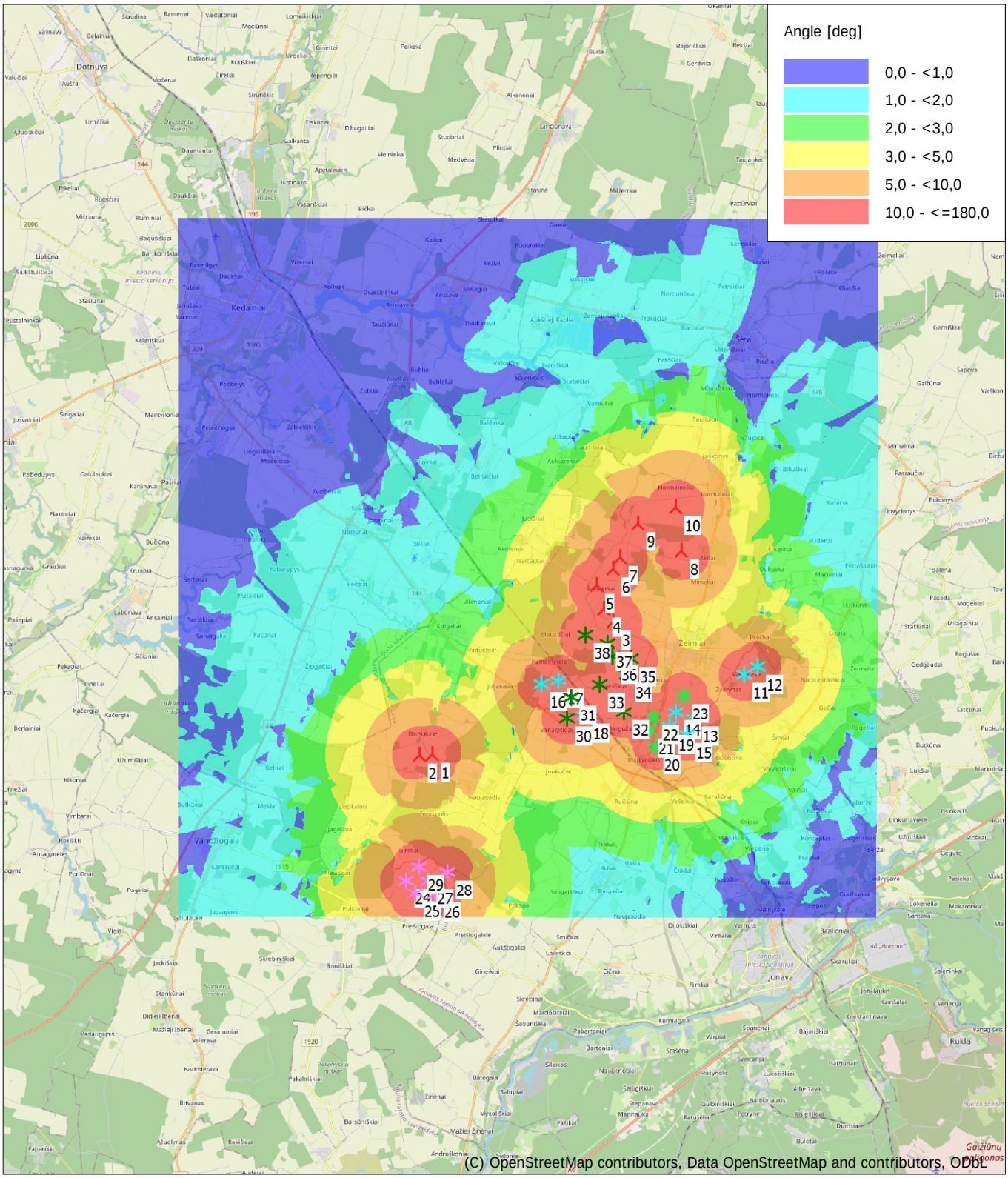
Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857

New WTG Existing WTG

Grid step: 25 m - Eye height: 1,5 m - Calculation height: Hub height

ZVI - Map Vertical subtended angle

Calculation: Suminis poveikis



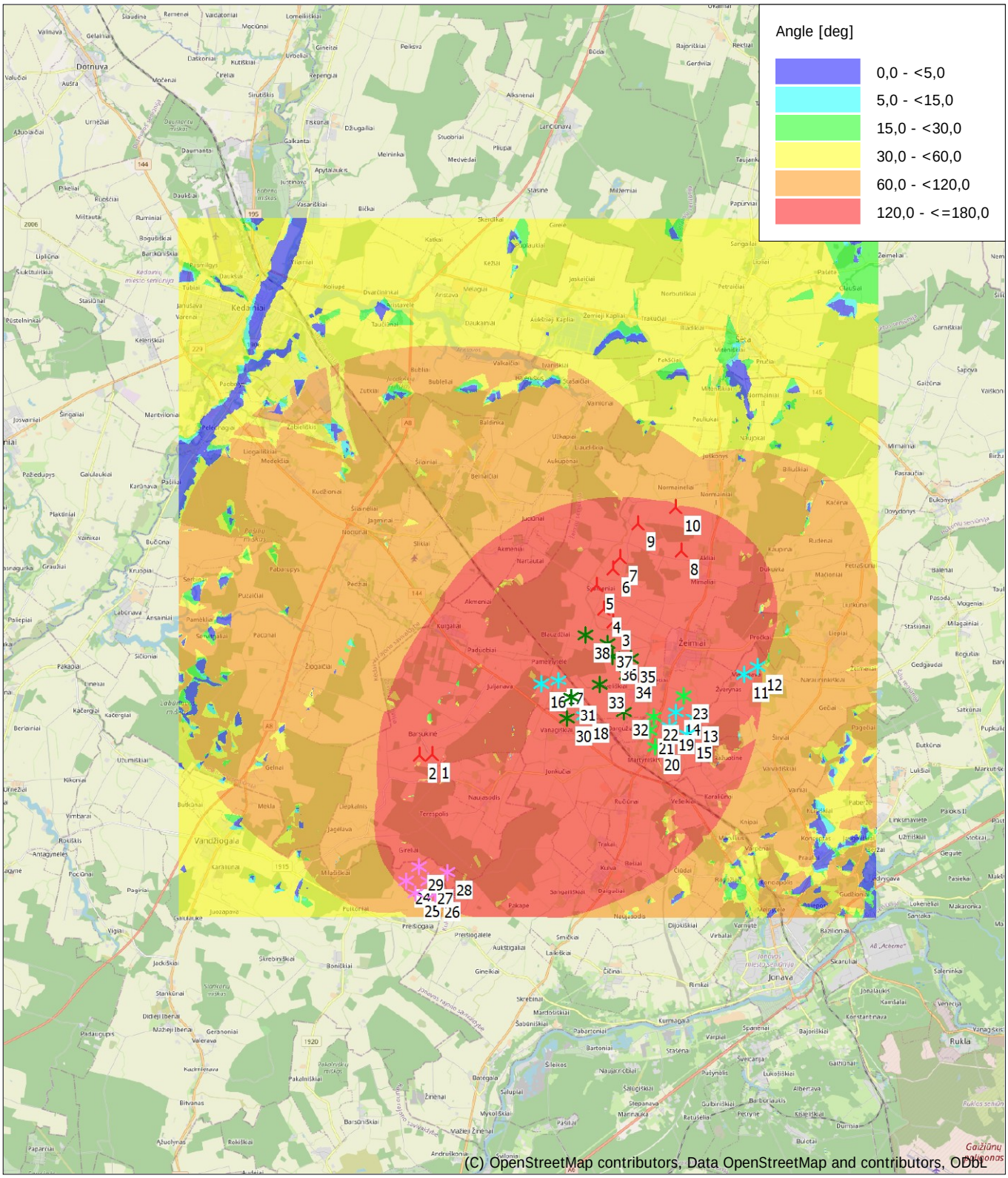
0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857

New WTG Existing WTG

ZVI - Map Horizontal subtended angle

Calculation: Suminis poveikis

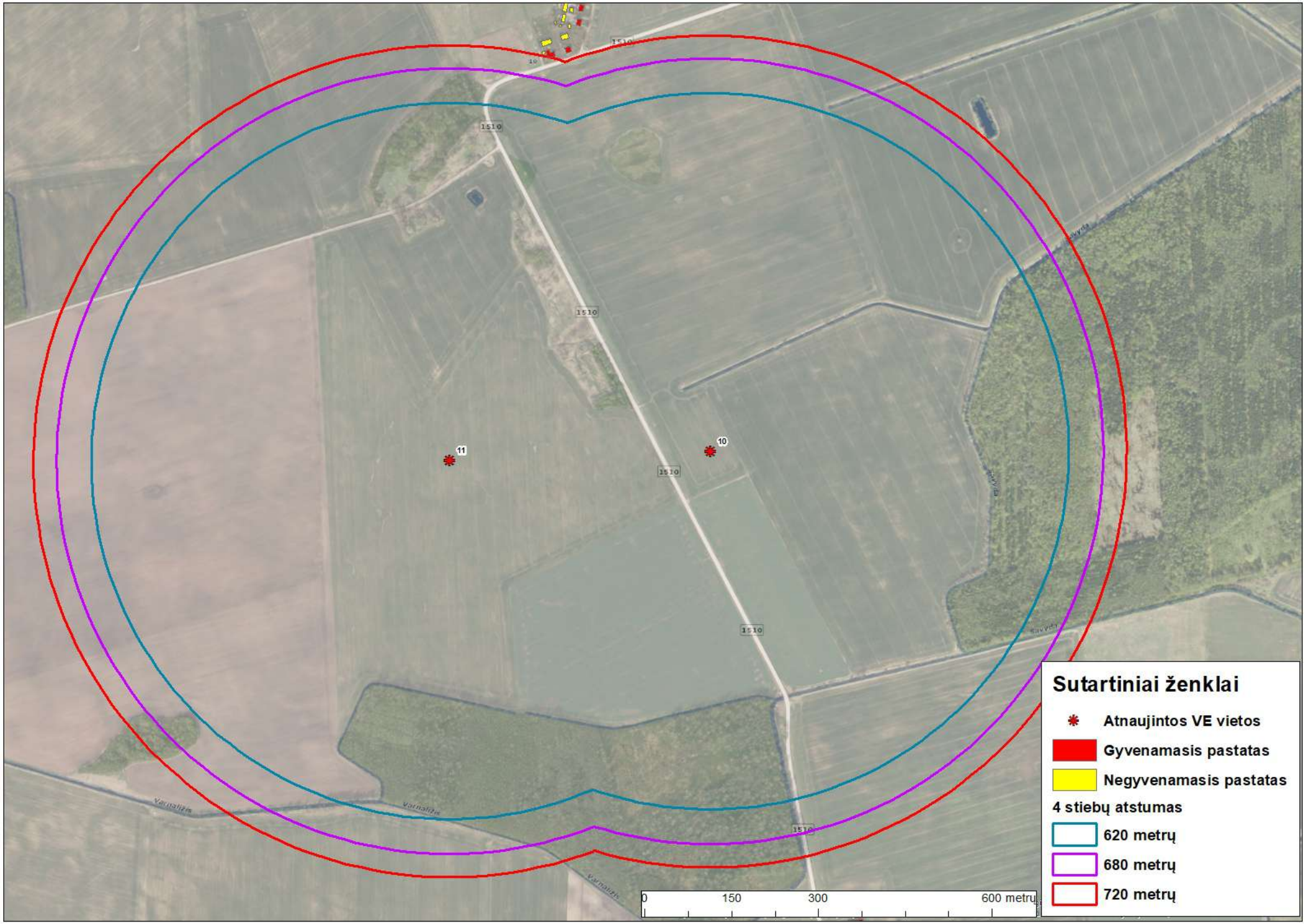


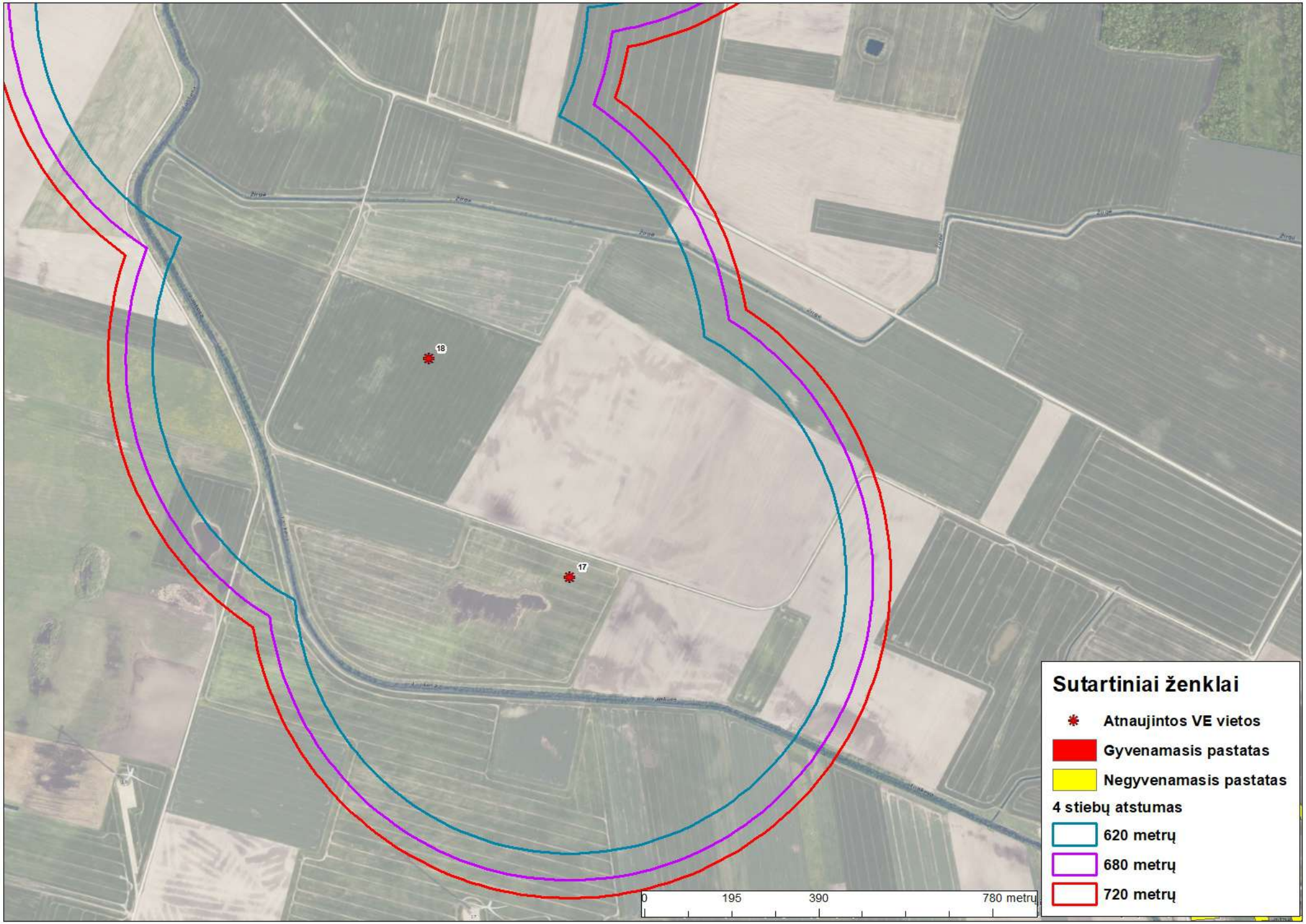
0 2,5 5 7,5 10km

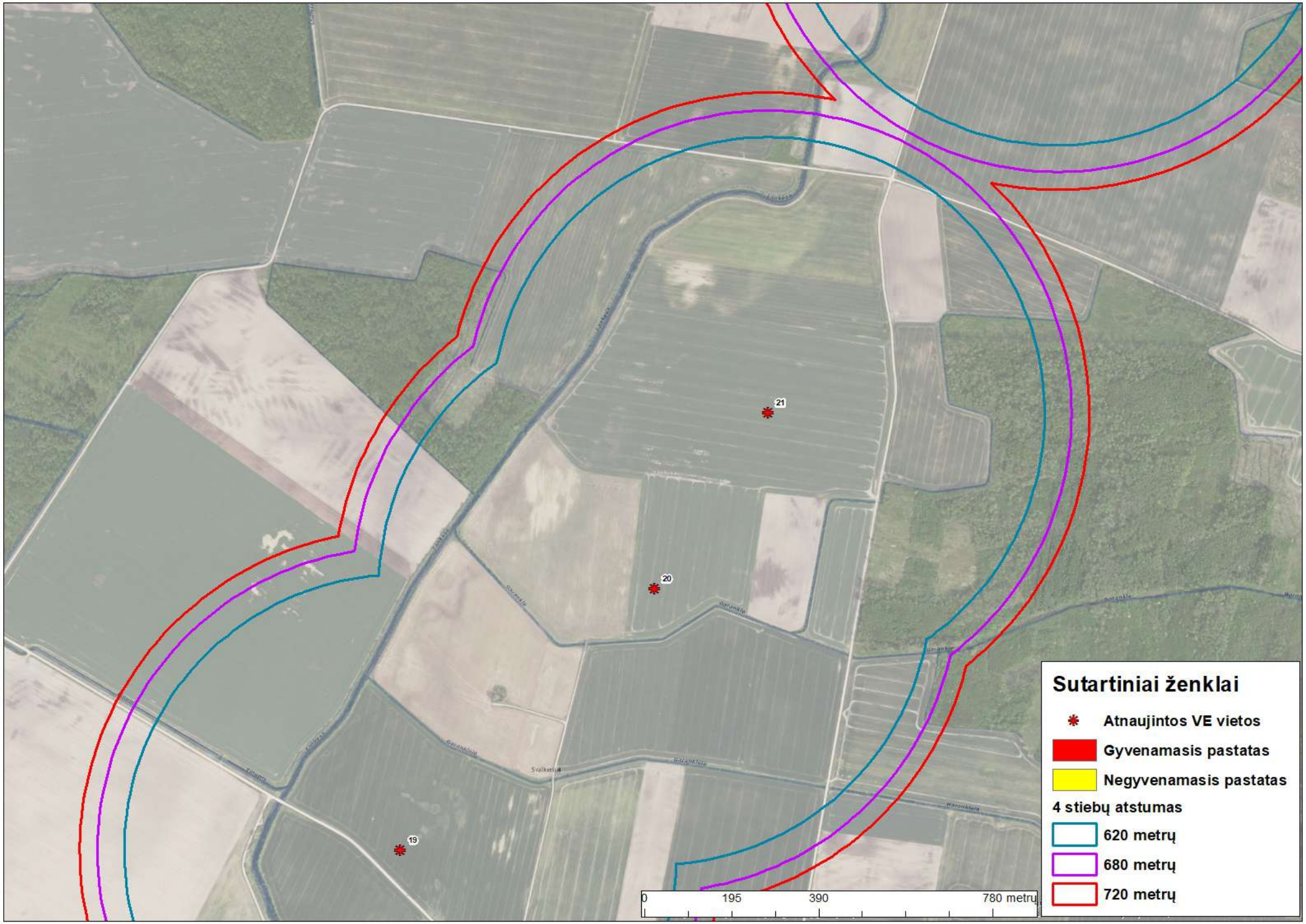
Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 508 483 North: 6 118 857

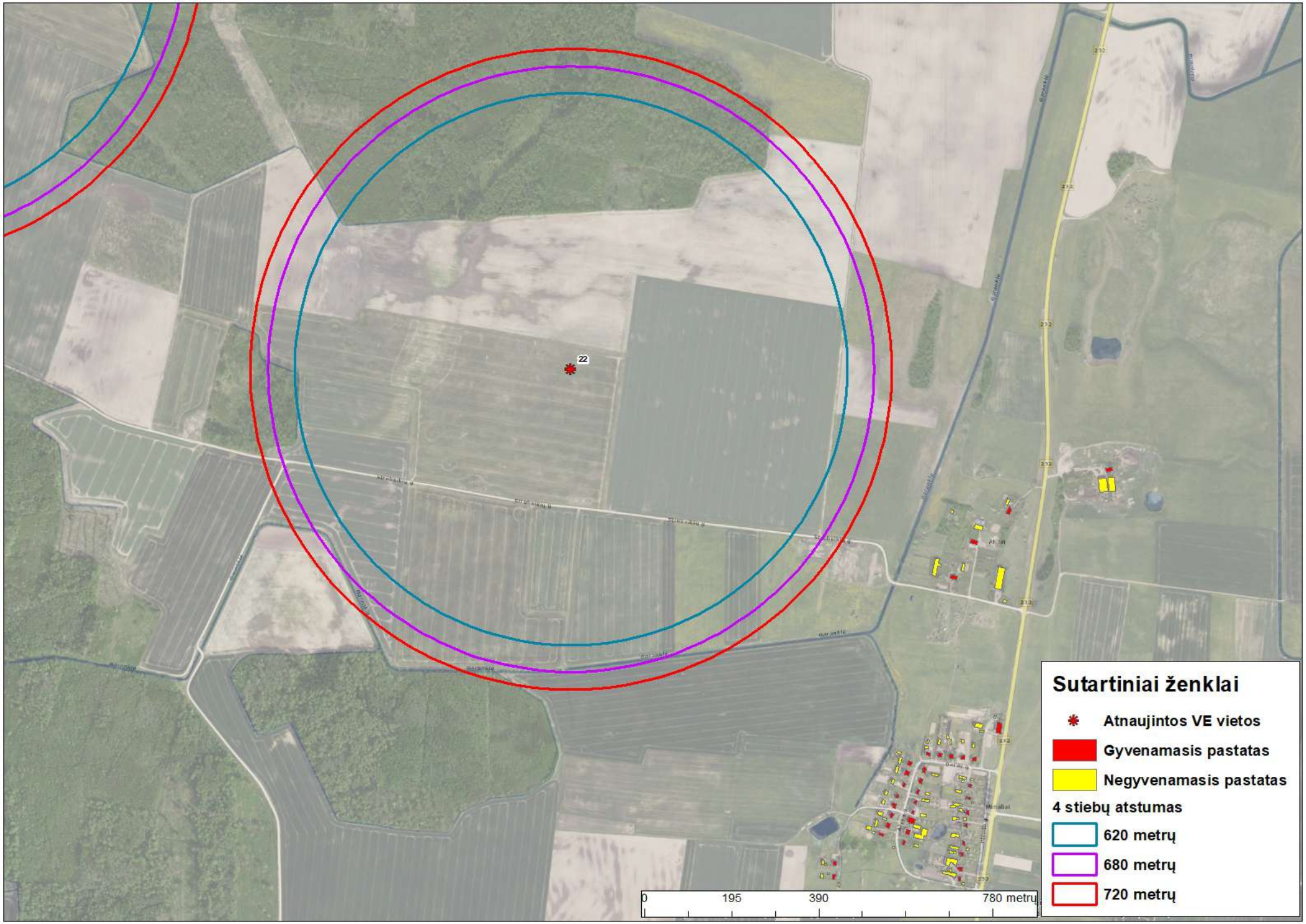
New WTG Existing WTG

1.7 Priedėlis. 4 stiebų atstumas


Sutartiniai ženklai
Atnaujintos VE vietos
Gyvenamasis pastatas
Negyvenamasis pastatas
4 stiebų atstumas
620 metrų
680 metrų
720 metrų
0
150
300
600 metrų
11
10
1510


18
17
Sutartiniai ženklai
Atnaujintos VE vietos
Gyvenamasis pastatas
Negyvenamasis pastatas
4 stiebų atstumas
620 metrų
680 metrų
720 metrų
0
195
390
780 metrų


21
20
19
Sutartiniai ženklai
Atnaujintos VE vietos
Gyvenamasis pastatas
Negyvenamasis pastatas
4 stiebų atstumas
620 metrų
680 metrų
720 metrų
0
195
390
780 metrų


22
Sutartiniai ženklai
Atnaujintos VE vietos
Gyvenamasis pastatas
Negyvenamasis pastatas
4 stiebų atstumas
620 metrų
680 metrų
720 metrų
0
195
390
780 metrų

2 PRIEDAS. DERINIMO DOKUMENTAI

2.1 Priedėlis. PAV pradžios pranešimo derinimas

APLINKOS APSAUGOS AGENTŪRA

Biudžetinė įstaiga, A. Juozapavičiaus g. 9, LT-09311 Vilnius, mob. tel. +370 682 92653, el. p. aaa@gamta.lt, https://aaa.lrv.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188784898

UAB „Infraplanas“
Siunčiama per e. pristatymą

2023-
Į 2023-10-18

Nr. (30-2)-A4E-
Nr. S-2023-161

DĖL PRANEŠIMO APIE POVEIKIO APLINKAI VERTINIMO PRADŽIĄ

Gavome Jūsų parengtą pranešimą apie UAB „Ignitis renewables projektai“ planuojamos ūkinės veiklos – vėjo elektrinių parko įrengimo ir eksploatacijos Jonavos r. sav., Žeimių ir Kulvos sen., poveikio aplinkai vertinimo pradžią (toliau – pranešimas apie PAV pradžią).

Vadovaudamiesi Planuojamos ūkinės veiklos poveikio aplinkai vertinimo procedūrų vykdymo tvarkos aprašo, patvirtinto Lietuvos Respublikos aplinkos ministro 2023 m. gegužės 23 d. įsakymo Nr. D1-157 „Dėl Lietuvos Respublikos aplinkos ministro 2017 m. spalio 31 d. įsakymo Nr. D1-885 „Dėl Planuojamos ūkinės veiklos poveikio aplinkai vertinimo tvarkos aprašo patvirtinimo“ pakeitimo“ (toliau – Procedūrų vykdymo tvarkos aprašas) 28 punktu, 2023-10-19 paskelbėme pranešimą apie PAV pradžią visuomenei susipažinti Aplinkos apsaugos agentūros interneto svetainėje *https://aaa.lrv.lt/* nuorodoje *Veiklos sritys > Poveikio aplinkai vertinimas (PAV) >2023* m.*> 4. Pranešimai apie poveikio aplinkai pradžią 2023 m.> Kauno apskritis.*

Vadovaujantis Procedūrų vykdymo tvarkos aprašo 30 punkto nuostatomis, prašome rengiant poveikio aplinkai vertinimo ataskaitą atsižvelgti į šį ir kitus Lietuvos Respublikos aplinkos ministro 2023 m. gegužės 23 d. įsakymu Nr. D1-157 „Dėl Lietuvos Respublikos aplinkos ministro 2017 m. spalio 31 d. įsakymo Nr. D1-885 „Dėl Planuojamos ūkinės veiklos poveikio aplinkai vertinimo tvarkos aprašo patvirtinimo“ pakeitimo“ patvirtintus tvarkos aprašus: Planuojamos ūkinės veiklos poveikio aplinkai vertinimo dokumentų rengimo tvarkos aprašas, Planuojamos ūkinės veiklos tarpvalstybinio poveikio aplinkai vertinimo procedūrų vykdymo tvarkos aprašas, Visuomenės informavimo ir dalyvavimo planuojamos ūkinės veiklos poveikio aplinkai vertinimo procese tvarkos aprašas.

Šį atsakymą Jūs turite teisę apskųsti Aplinkos apsaugos agentūrai (A. Juozapavičiaus g. 9, Vilnius 09311) Lietuvos Respublikos viešojo administravimo įstatymo nustatyta tvarka per vieną mėnesį nuo jo įteikimo dienos arba Lietuvos Respublikos Seimo kontrolieriui dėl valstybės tarnautojų piktnaudžiavimo, biurokratizmo ar kitaip pažeidžiamų žmogaus teisių ir laisvių viešojo administravimo srityje per vienerius metus nuo šio atsakymo įteikimo dienos (Gedimino g. 56, 01110 Vilnius) Lietuvos Respublikos Seimo kontrolierių įstatymo nustatyta tvarka.

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Aplinkos apsaugos agentūra 188784898, A. Juozapavičiaus g. 9, LT-09311 Vilnius
Dokumento pavadinimas (antraštė)	Dėl pranešimo apie poveikio aplinkai vertinimo pradžią
Dokumento registracijos data ir numeris	2023-10-25 Nr. (30-2)-A4E-10882
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2023-10-25 11:56:35 (GMT+03:00)
Parašo formatas	XAdES-T
Laiko žymoje nurodytas laikas	2023-10-25 11:56:46 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	ADIC CA-B, Asmens dokumentu israsymo centras prie LR VRM LT
Sertifikato galiojimo laikas	2023-05-09 10:02:43 – 2026-05-08 10:02:43
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2022-05-19 16:48:06 iki 2025-05-18 16:48:06
Pagrindinio dokumento priedų skaičius	–
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.74.2
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2023-10-25 12:00:27)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2023-10-25 12:00:27 DBSIS

Elektroninio dokumento nuorašas

JONAVOS RAJONO SAVIVALDYBĖS MERAS

Biudžetinė įstaiga, Žeimių g. 13, 55158 Jonava,
telefonas (8 349) 50154, el. paštas administracija@jonava.lt.
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188769070

UAB „Infraplanas“ 2023-10- Nr. 6B-22-

Į 2023-10-20 Pranešimą el. paštu

DĖL PRANEŠIMO APIE VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO PRADŽIĄ

Jonavos rajono savivaldybės administracijoje gautas UAB „Infraplanas“ pranešimas apie UAB „Ignitis renewables projektai“ planuojamos ūkinės veiklos (toliau - PŪV) – vėjo elektrinių parko (Žeimių sen., Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo pradžią.

Atsakydami į Jūsų pranešimą informuojame, kad galimos alternatyviųjų energijos išteklių parkų įkūrimo vietos Jonavos rajono savivaldybės teritorijoje yra nustatytos Jonavos rajono savivaldybės tarybos 2017 m. gruodžio 21 d. sprendimu Nr. 1TS-295 „Dėl Jonavos rajono savivaldybės teritorijos bendrojo plano keitimo patvirtinimo" patvirtintuose ir galiojančiuose Jonavos rajono savivaldybės bendrojo plano (toliau – Bendrasis planas) sprendiniuose: https://gis.jonava.lt/portal/apps/webappviewer/index.html?id=825430ab53b54485bc2991ae5f4f824a.

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Jonavos rajono savivaldybės administracija
Dokumento pavadinimas (antraštė)	DĖL PRANEŠIMO APIE VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO PRADŽIĄ
Dokumento registracijos data ir numeris	2023-10-24 Nr. 6B-22-5014
Dokumento gavimo data ir dokumento gavimo registracijos numeris	-
Dokumento adresatas (-ai)	UŽDARA AKCINĖ BENDROVĖ ”INFRAPLANAS“
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Parašo sukūrimo data ir laikas	2023-10-24 11:51
Parašo formatas	Einamojo galiojimo (XAdES-EPES)
Laiko žymoje nurodytas laikas	
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016
Sertifikato galiojimo laikas	2020-07-08 11:14 - 2025-07-07 23:59
Parašo paskirtis	Registravimas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Parašo sukūrimo data ir laikas	2023-10-24 13:40
Parašo formatas	Einamojo galiojimo (XAdES-EPES)
Laiko žymoje nurodytas laikas	
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016
Sertifikato galiojimo laikas	2020-02-20 14:52 - 2025-02-18 23:59
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	-
Pagrindinio dokumento priedų skaičius	0
Pagrindinio dokumento pridedamų dokumentų skaičius	0
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	Elpako v.20231023.2
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Tikrinant dokumentą nenustatyta jokių klaidų (2023-10-24)
Elektroninio dokumento nuorašo atspausdinimo data ir ją atspausdinęs darbuotojas	
Paieškos nuoroda	-
Papildomi metaduomenys	-

**NACIONALINIO VISUOMENĖS SVEIKATOS CENTRO
PRIE SVEIKATOS APSAUGOS MINISTERIJOS
KAUNO DEPARTAMENTAS**

Biudžetinė įstaiga, Kalvarijų g. 153, LT-08352 Vilnius.
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 291349070.
Departamento duomenys: K. Petrausko g. 24, LT-44156 Kaunas, tel. (8 37) 33 16 88, faks. (8 37) 33 16 80,
el. p. kaunas@nvsc.lt

UAB „Infraplanas“	2023-10-	Nr. (2-11 14.3.2 Mr)2-
El. p. info@infraplanas.lt	Į 2023-10-18	Nr. S-2023-161

DĖL PRANEŠIMO APIE POVEIKIO APLINKAI VERTINIMO PRADŽIĄ

Nacionalinio visuomenės sveikatos centro prie Sveikatos apsaugos ministerijos Kauno departamentas susipažino su 2023 m. spalio 18 d. gautu raštu Nr. S-2023-161 „Dėl pranešimo apie vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo pradžią“. Pasiūlymų dėl pranešimo apie vėjo elektrinių parko įrengimo ir eksploatacijos Jonavos r. sav., Žeimių sen., Pėdžių k. kad. Nr. 4613/0002:16, Kuigalių k. kad. Nr. 4613/0002:65, Barsukinės k. kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio k. kad. Nr. 4613/0005:70, Blauzdžių k. kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71, Svalkenių k. kad. Nr. 4640/0001:8, 4640/0001:63, Aklių k. kad. Nr. 4640/0002:244, 4640/0002:299, Normainėlių k. kad. Nr. 4623/0002:7 ir Kulvos sen. Jonkučių k. kad. Nr. 4615/0002:7, neturime.

Informuojame, kad šis sprendimas per vieną mėnesį nuo jo įteikimo dienos gali būti skundžiamas (pasirinktinai): vadovaujantis Lietuvos Respublikos viešojo administravimo įstatymo 14 straipsniu, skundžiamas Nacionaliniam visuomenės sveikatos centrui prie Sveikatos apsaugos ministerijos (Kalvarijų g. 153, 08352 Vilnius) arba Lietuvos Respublikos sveikatos apsaugos ministerijai (Vilniaus g. 33, 01402 Vilnius); Lietuvos Respublikos ikiteisminio administracinių ginčų nagrinėjimo tvarkos įstatymo nustatyta tvarka Lietuvos administracinių ginčų komisijos Kauno apygardos skyriui (Laisvės al. 36, 44240 Kaunas); Lietuvos Respublikos administracinių bylų teisenos įstatymo nustatyta tvarka Regionų apygardos administracinio teismo Kauno rūmams (A. Mickevičiaus g. 8A, 44312 Kaunas).

Dėl pareigūnų piktnaudžiavimo, biurokratizmo ar kitaip pažeidžiamų žmogaus teisių ir laisvių viešojo administravimo srityje per vienerius metus nuo skundžiamų veiksmų padarymo ar skundžiamo sprendimo priėmimo turite teisę pateikti skundą Lietuvos Respublikos Seimo kontrolieriui (Gedimino pr. 56, 01110 Vilnius) Lietuvos Respublikos Seimo kontrolierių įstatymo nustatyta tvarka.

ISO 9001 BUREAU VERITAS Certification
UKAS MANAGEMENT SYSTEMS

Suformuota: 2023 m. spalio 25 d. 10:18

Suformavo: Dokumentų valdymo ir konsultavimo skyriaus visuomenės sveikatos

Siunčiamasis dokumentas

Registracijos duomenys	
Skyriaus indeksas	Jonavos skyrius
Būsena	Registruota
Registracijos data	2023-10-25
Registracijos numeris	(2-21 14.3.2 Mr)2-49517
Registras	2: Siunčiamų dokumentų registras
Byla	2023: 14.3.2 Mr: Poveikio aplinkai vertinimo programų derinimo dokumentai (prašymai, išvados), pranešimų apie poveikio aplinkai vertinimo pradžią dokumentai (informaciniai pranešimai, motyvuoti siūlymai)
Bylos forma	Mišri byla
Procesas	templ.snakeProcess.default
Registratorius	Dokumentų valdymo ir konsultavimo skyriaus visuomenės sveikatos
Elektroninis dokumentas	Taip
Dokumento informacija	
Siuntėjai	Kauno departamentas
Gavėjai	UAB "Infraplanas", Inovacijų g. 3, Biruliškės, 54469 Kauno r. sav., info@infraplanas.lt
Gavėjas (pristatymo būdas)	UAB "Infraplanas", Inovacijų g. 3, Biruliškės, 54469 Kauno r. sav., info@infraplanas.lt
Dokumentą parengė	
Dokumentą pasirašė	
Dokumentą tvirtino	
Dokumentą vizavo	
Dokumentą derino	
Antraštė	DĖL PRANEŠIMO APIE POVEIKIO APLINKAI VERTINIMO PRADŽIĄ
Dokumento rūšis	Siunčiamas raštas
Dokumento termino pratęsimas	
Lapų skaičius	1
Susieti dokumentai	

Pradinis dokumentas (1)

1-88473	2023-10-18	DĖL PRANEŠIMO APIE VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO PRADŽIĄ	PRANEŠIMAS	Vykdoma	2023-10-24

Užduotys (1)

15751211	2023-10-18	Užduotis	Baigta	2023-10-24

ADOC
Dėl-pranešimo-apie-PAV-pradžią-Infraplanas-(2023-10).adoc
Dėl-pranešimo-apie-PAV-pradžią-Infraplanas-(2023-10).docx
Priedai
Pridedami dokumentai
Pasibaigę darbai

	2023-10-24 16:36:17	Teigiamai vizuota versija 3.0. Pastabos:
	2023-10-25 07:19:51	Teigiamai vizuota versija 3.0. Pastabos:
	2023-10-25 07:38:31	Teigiamai vizuota versija 3.0. Pastabos:
	2023-10-25 09:46:42	Teigiamai vizuota versija 3.0. Pastabos:
	2023-10-25 10:00:31	Teigiamai vizuota versija 3.0. Pastabos:
	2023-10-25 10:16:20	Pasirašyta versija 3.0. Pastabos:
	2023-10-25 10:17:43	Registruotas dokumentas: 2: Siunčiamų dokumentų registras 2023: 14.3.2 Mr: Poveikio aplinkai vertinimo programų derinimo dokumentai (prašymai, išvados), pranešimų apie poveikio aplinkai vertinimo pradžią dokumentai (informaciniai pranešimai, motyvuoti siūlymai)

KĖDAINIŲ RAJONO SAVIVALDYBĖS ADMINISTRACIJA

Biudžetinė įstaiga, J. Basanavičiaus g. 36, LT-57288 Kėdainiai, tel. (8 347) 69 550, el. p. administracija@kedainiai.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188768545

Aplinkos apsaugos agentūrai
el. p. aaa@gamta.lt

2023-11- Nr. AS-

Į 2023-10-20 Nr. (30-2)-A4E-10763

Kopija
UAB „Infraplanas“
el. p. info@infraplanas.lt

DĖL DALYVAVIMO POVEIKIO APLINKAI VERTINIMO PROCESE

Atsakydami į Jūsų 2023 m. spalio 20 d. raštą Nr. (30-2)-A4E-10763 „Dėl kvietimo dalyvauti poveikio aplinkai vertinimo procese“ (gavimo data 2023 m. spalio 23 d., registracijos Nr. AG-6784) informuojame, kad Kėdainių rajono savivaldybės administracija (toliau – Administracija) susipažino su UAB „Infraplanas“ parengtu planuojamos ūkinės veiklos – UAB „Ignitis renewables projektai“ vėjo elektrinių parko įrengimo ir eksploatacijos Jonavos r. sav., Žeimių ir Kulvos sen. – pranešimu apie poveikio aplinkai vertinimo pradžią.

Vadovaujantis Planuojamos ūkinės veiklos poveikio aplinkai vertinimo procedūrų vykdymo tvarkos aprašo, patvirtinto Lietuvos Respublikos aplinkos ministro 2023 m. gegužės 23 d. įsakymu Nr. D1-157 „Dėl Lietuvos Respublikos aplinkos ministro 2017 m. spalio 31 d. įsakymo Nr. D1-885 „Dėl Planuojamos ūkinės veiklos poveikio aplinkai vertinimo tvarkos aprašo patvirtinimo“ pakeitimo“, 31 punkto nuostatomis Administracija motyvuotų pasiūlymų poveikio aplinkai vertinimo dokumentų rengėjui neteikia.

Pažymime, kad parengus poveikio aplinkai vertinimo ataskaitą būtina atlikti visuomenės informavimo ir dalyvavimo procedūras Kėdainių rajono savivaldybės Pelėdnagių seniūnijoje, kuri tiesiogiai ribojasi su planuojamos ūkinės veiklos teritorija, pagal Visuomenės informavimo ir dalyvavimo planuojamos ūkinės veiklos poveikio aplinkai vertinimo procese tvarkos aprašo, patvirtinto Lietuvos Respublikos aplinkos ministro 2023 m. gegužės 23 d. įsakymu Nr. D1-157 „Dėl Lietuvos Respublikos aplinkos ministro 2017 m. spalio 31 d. įsakymo Nr. D1-885 „Dėl Planuojamos ūkinės veiklos poveikio aplinkai vertinimo tvarkos aprašo patvirtinimo“ pakeitimo“, V skyriaus reikalavimus.

Pavadinimas: Dėl dalyvavimo poveikio aplinkai vertinimo procese
Rinkmena: Rastas del vejo elektriniu parko Jonavos r. PAV.adoc (ADOC-V1.0, GeDOC)

Dokumento metaduomenys

PASIRAŠOMIEJI METADUOMENYS

El. dokumento turinį aprašantys metaduomenys

El. dokumento pavadinimas	Dokumento rūšis	Parašai
Dėl dalyvavimo poveikio aplinkai vertinimo procese	RAŠTAS	

Sudarytojai

Statusas	Sudarytojas	Kodas	Adresas	Parašai
Juridinis asmuo	Kėdainių rajono savivaldybės administracija	188768545	J. Basanavičiaus g. 36, LT-57288	

Dokumento sudarymas

Sudarymo data	Parašai
2023-11-07 17:14:36	

Adresatai

Statusas	Adresatas	Kodas	Adresas	Parašai
Juridinis asmuo	Aplinkos apsaugos agentūra	188784898	A. Juozapavičiaus g. 9, LT-09311 Vilnius	
Juridinis asmuo	UAB "Infraplanas"	160421745	Kauno r. sav., Karmėlavos sen., Biruliškių k., Inovacijų g. 3	

Dokumento registracijos

Registravimo data	Dokumento registracijos Nr.	Įmonės (įstaigos) kodas	Parašai
2023-11-07 17:14:36	AS-3824	188768545	

Dokumentą užregistravęs darbuotojas

Vardas ir pavardė	Pareigos	Struktūrinis padalinys
Simona Raubė	Sekretorius referentas	Bendrasis skyrius

NEPASIRAŠOMIEJI METADUOMENYS

KULTŪROS PAVELDO DEPARTAMENTAS PRIE KULTŪROS MINISTERIJOS KAUNO TERITORINIS SKYRIUS

UAB "Infraplanas"

2023-10- Nr.
Į 2023-10-18 Nr. S-2023-161

DĖL PRANEŠIMO APIE PLANUOJAMOS ŪKINĖS VEIKLOS (PŪV) „VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS“ POVEIKIO APLINKAI VERTINIMO (PAV) PRADŽIĄ

Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis skyrius (toliau – KPD Kauno skyrius) gavo Jūsų prašymą (2023-10-18, Nr. S-2023-161) derinti pranešimą apie planuojamos ūkinės veiklos (PŪV) „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“ poveikio aplinkai vertinimo pradžią.

KPD Kauno skyrius susipažino su pranešimu apie planuojamos ūkinės veiklos (PŪV) „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“ poveikio aplinkai vertinimo pradžią ir jam **pritaria**.

Vadovaudamiesi Lietuvos Respublikos viešojo administravimo įstatymu, reglamentuojančiu institucijoms nurodyti asmenims teikiamų atsakymų apskundimo tvarką, informuojame, kad šis KPD Kauno teritorinio skyriaus raštas gali būti skundžiamas tam pačiam viešojo administravimo subjektui arba aukštesniam pagal pavaldumą viešojo administravimo subjektui, Lietuvos administracinių ginčų komisijos Kauno apygardos skyriui (Laisvės al. 36, Kaunas) arba Regionų apygardos administracinio teismo Kauno rūmams (A. Mickevičiaus g. 8A, Kaunas) per vieną mėnesį nuo jo gavimo dienos.

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Kultūros paveldo departamentas prie Kultūros ministerijos 188692688, Šnipiškių g. 3, LT-09309 Vilnius
Dokumento pavadinimas (antraštė)	DĖL PRANEŠIMO APIE PLANUOJAMOS ŪKINĖS VEIKLOS (PŪV) „VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS“ POVEIKIO APLINKAI VERTINIMO (PAV) PRADŽIĄ
Dokumento registracijos data ir numeris	2023-10-25 Nr. (9.38-K E)2K-3247
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2023-10-25 14:37:19 (GMT+03:00)
Parašo formatas	XAdES-T
Laiko žymoje nurodytas laikas	2023-10-25 14:37:35 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	ADIC CA ECC, Asmens dokumentu israsymo centras prie LR VRM LT
Sertifikato galiojimo laikas	2023-06-26 09:37:12 – 2027-06-25 09:37:12
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2022-05-19 16:48:06 iki 2025-05-18 16:48:06
Pagrindinio dokumento priedų skaičius	–
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.74.2
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2023-10-25 20:55:27)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2023-10-25 20:55:27 DBSIS

PRIEŠGAISRINĖS APSAUGOS IR GELBĖJIMO DEPARTAMENTO
PRIE VIDAUS REIKALŲ MINISTERIJOS
KAUNO PRIEŠGAISRINĖ GELBĖJIMO VALDYBA

Uždaroji akcinė bendrovė „Infraplanas“	2023-	Nr.
el.p. info@infraplanas.lt	Į 2023-10-18	Nr. S-2023-161

DĖL PRANEŠIMO APIE POVEIKIO APLINKAI VERTINIMO PRADŽIĄ

Priešgaisrinės apsaugos ir gelbėjimo departamento prie Vidaus reikalų ministerijos Kauno priešgaisrinė gelbėjimo valdyba savo kompetencijos ribose išnagrinėjo pranešimą apie Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo pradžią. Informuojame, kad pasiūlymų ir pastabų neturime, pageidausime nagrinėti poveikio aplinkai vertinimo ataskaitą.

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Priešgaisrinės apsaugos ir gelbėjimo departamentas prie Vidaus reikalų ministerijos 188601311, Švitrigailos g. 18, LT-03223 Vilnius
Dokumento pavadinimas (antraštė)	Dėl pranešimo apie poveikio aplinkai vertinimo pradžią (Jonavos r. sav.) vėjo el. parkas
Dokumento registracijos data ir numeris	2023-10-25 Nr. 9.4-2-1448 /2023(11.2.111 E)
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2023-10-25 15:08:50 (GMT+03:00)
Parašo formatas	XAdES-T
Laiko žymoje nurodytas laikas	2023-10-25 15:08:58 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	ADIC CA ECC, Asmens dokumentu israsymo centras prie LR VRM LT
Sertifikato galiojimo laikas	2023-06-27 10:59:40 – 2027-06-26 10:59:40
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2022-05-19 16:48:06 iki 2025-05-18 16:48:06
Pagrindinio dokumento priedų skaičius	–
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.74.2
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2023-10-25 15:13:40)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2023-10-25 15:13:40 DBSIS

**VALSTYBINĖ SAUGOMŲ TERITORIJŲ TARNYBA
PRIE APLINKOS MINISTERIJOS**

**Biudžetinė įstaiga, Antakalnio g. 25, LT-10312 Vilnius,
tel. 8 659 29 483, el. p. vstt@vstt.lt, https://vstt.lrv.lt/
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188724381**

UAB „Infraplanas“ 2023- Nr.
Į 2023-10-18 Nr. S-2023-161

Kopija
Aplinkos apsaugos agentūrai

DĖL PRANEŠIMO APIE JONAVOS R. SAV. „IGNITIS RENEWABLES PROJKETAI“ PLANUOJAMO 25 VĖJO ELEKTRINIŲ PARKO POVEIKIO APLINKAI VERTINIMO PRADŽIĄ

Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos, veikdama kaip poveikio aplinkai vertinimo subjektas pagal Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 5 straipsnio 1 dalies 2 punkto e) papunktį, pagal kompetenciją susipažino su UAB „Infraplanas“ pateiktu pranešimu apie planuojamą ūkinę veiklą (toliau – PŪV) – 25 vėjo elektrinių (toliau – VE) parko įrengimą ir eksploataciją Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime (toliau – Pranešimas).

Vadovaudamiesi Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 9 straipsnio 4 dalimi teikiame pasiūlymus dėl planuojamos ūkinės veikos:

1. Iš Pranešime pateiktos informacijos matyti, kad nemaža dalis VE: yra planuojamos mažesniu nei 200 m atstumu nuo miško pakraščio, vandens telkinių, želdinių kraštovaizdžio elementų, kurie yra svarbūs šikšnosparnių maitinimuisi ir šalia jų įrengiamos VE gali sukelti šikšnosparnių žūtį nuo VE sparnų ar barotraumų. Pažymėtina, kad pagal Sutarties dėl šikšnosparnių apsaugos Europoje (EUROBATS) patariamojo komiteto parengtas gaires (atnaujinta versija patvirtinta 7-

ojoje sesijoje (2014 m.), kaip rezoliucijos 7.5 priedas, https://www.eurobats.org > Publications > EUROBATS Publication series > Guidelines for consideration of bats in wind farm projects. Revision 2014), siekiant išvengti reikšmingo poveikio šikšnosparniams, VE neturi būti statomos arčiau kaip 200 metrų nuo miško, vandens telkinių, kitų želdinių. Pagal naujesnes rekomendacijas siūloma taikyti dar didesnį – 200 m + VE mentės ilgis – atstumą nuo pamiškių, vandens telkinių pakrančių ir kitų šikšnosparnių aktyvaus maitinimosi ir migracijos vietų. Siūlome VE neatitinkančias šios rekomendacijos atitraukti nuo šikšnosparniams svarbių kraštovaizdžio elementų rekomenduojamu atstumu;

2. Kaip nurodyta Parnešime dalis planuojamo parko VE nuo Paukščių apsaugai svarbios teritorijos (toliau – PAST) „Labūnavos miškas“ ir Labūnavos miško biosferos poligono, kuriose saugomi mažieji ereliai rėksniai yra planuojamos mažesniu nei 2 km atstumu. Remiantis „Detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų ir žalos paukščiams ir šikšnosparniams prevencijos ir pašalinimo priemonių taikymo ir tyrimų reikalavimų aprašo“ projektu, kuomet VE ar jų parkai yra planuojami mažesniu nei 2 km atstumu nuo PAST ar kitų saugomų teritorijų, kuriuose saugomi mažieji ereliai rėksniai poveikis jiems yra laikomas reikšmingai neigiamu. Siūlome planuojamas VE atitraukti rekomenduojamais atstumais nuo saugomų teritorijų.

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos 188724381, Antakalnio g. 25, LT-10312 Vilnius
Dokumento pavadinimas (antraštė)	DĖL PRANEŠIMO APIE JONAVOS R. SAV. „IGNITIS RENEWABLES PROJKETAI“ PLANUOJAMO 25 VĖJO ELEKTRINIŲ PARKO POVEIKIO APLINKAI VERTINIMO PRADŽIĄ
Dokumento registracijos data ir numeris	2023-11-03 Nr. V3-2038
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2023-11-03 08:20:13 (GMT+02:00)
Parašo formatas	XAdES-T
Laiko žymoje nurodytas laikas	2023-11-03 08:20:28 (GMT+02:00)
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016, AS Sertifitseerimiskeskus EE
Sertifikato galiojimo laikas	2023-07-05 17:33:09 – 2028-07-03 23:59:59
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2022-05-19 16:48:06 iki 2025-05-18 16:48:06
Pagrindinio dokumento priedų skaičius	–
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.74.2
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2023-11-03 15:18:59)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2023-11-03 15:18:59 DBSIS

2.2 Priedėlis. Subjektų pastabos PAV ataskaitai

Elektroninio dokumento nuorašas

JONAVOS RAJONO SAVIVALDYBĖS MERAS

Biudžetinė įstaiga, Žeimių g. 13, 55158 Jonava,
telefonas (8 349) 50154, el. paštas administracija@jonava.lt.
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188769070

UAB „Infraplanas“
el. p. info@infraplanas.lt

2024-01- Nr. 6B-22-

Į 2024-01-09 Nr. S-2024-07

DĖL VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS PASTABŲ PATEIKIMO

Jonavos rajono savivaldybės administracija (toliau - Administracija) 2024 m. sausio 9 d. gavo UAB „Infraplanas“ raštą Nr. S-2024-07, kuriame pateikiama parengta Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaita (toliau – PAV ataskaita). Planuojamos ūkinės veiklos organizatorius – UAB „Ignitis renewables projektai“ (į. k. 305916135), vieta – Jonavos r. sav., Žeimių sen.: Pėdžių, Kuigalių, Barsukinės, Liepkalnio, Blauzdžių, Svalkenių, Aklių, Normainėlių k. bei Kulvos sen.: Jonkučių k.

Vadovaudamasi Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo (toliau – Įstatymas) 11 straipsnio 5 punktu, Administracija išnagrinėjo pateiktą PAV ataskaitą. Vadovaudamasi Įstatymo 11 straipsnio 7 punktu, Administracija savo kompetencijos ribose, teikia PAV ataskaitos pastabas dėl planuojamos ūkinės veiklos.

Vadovaujantis Jonavos rajono savivaldybės tarybos 2017 m. gruodžio 21 d. sprendimu Nr. 1TS-295 „Dėl Jonavos rajono savivaldybės teritorijos bendrojo plano keitimo patvirtinimo“ patvirtintais ir galiojančiais Jonavos rajono savivaldybės bendrojo plano (toliau – Bendrasis planas) sprendiniais, išnagrinėjus pateiktą PAV ataskaitą nustatyta, kad PAV ataskaitoje nurodytose planuojamos ūkinės veiklos teritorijose, patenkančiose į Jonavos rajono atsinaujinančių energijos išteklių plėtros teritorijas (toliau – AEI) (vėjo jėgainių iki 6 MW galingumo), planuojamų statyti Vėjo elektrinių maksimali galia sieks iki 8 MW (pateikiama informacija PAV ataskaitoje – bendra Vėjo elektrinių galia neviršys 200 MW galingumo).

Administracija atkreipia dėmesį, kad PAV ataskaitoje nurodytos Vėjo elektrinės Nr. 9, Nr. 10, Nr. 11, Nr. 12, Nr. 13, Nr. 15, Nr. 18, Nr. 19, Nr. 20, Nr. 21, Nr. 22, Nr. 23, Nr. 24, Nr. 25 patenka į galios ribojimo (iki 6 MW) zonas, pagal Bendrojo plano sprendinius. Primename, kad AEI teritorijos Jonavos rajono savivaldybės teritorijoje yra nustatytos Bendrojo plano sprendiniuose:
https://gis.jonava.lt/portal/apps/opsdashboard/index.html#/9870949d90f14ad1ba3089dabe28a50a .
Administracija pažymi, kad PAV ataskaitoje pateikti priešprojektiniai Vėjo elektrinių pajėgumų sprendiniai gali prieštarauti Bendrojo plano sprendiniams dėl galios ribojimo zonų PAV ataskaitoje nurodytose planuojamos ūkinės veiklos teritorijose.

Taip pat Administracija atkreipia dėmesį, kad PAV ataskaitoje nurodytos planuojamos Vėjo elektrinių Nr. 2, Nr. 14, Nr. 16, Nr. 17 vietos neatitinka ir prieštarauja Bendrojo plano sprendiniams, nes nurodytos (Nr. 2, Nr. 14, Nr. 16, Nr. 17) Vėjo elektrinės nepatenka į AEI plėtros teritorijas. Pažymėtina, kad norint vykdyti planuojamą ūkinę veiklą aukščiau nurodytose Jonavos rajono savivaldybės teritorijos vietose, privaloma inicijuoti Bendrojo plano keitimo procedūras.

Išnagrinėjus pateiktą PAV ataskaitą nustatyta, kad pateiktos PAV ataskaitos 51 paveiksle, pavadinimu „Planuojamų, kitais projektais suplanuotų VE vietos gyvenamųjų pastatų ir gyvenamųjų aplinkų atžvilgiu“ nėra pateikta Vėjo jėgainės Nr. 15 planuojamos statybos vietos (pažymėtos „*“), su planuojamo žemės sklypo riba. Vadovaudamasi Įstatymo nuostatomis, Administracija prašo papildyti PAV ataskaitos 51 paveikslo vizualinę dalį.

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Jonavos rajono savivaldybės administracija
Dokumento pavadinimas (antraštė)	DĖL VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPOATACIJOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS PASTABŲ PATEIKIMO
Dokumento registracijos data ir numeris	2024-01-26 Nr. 6B-22-466
Dokumento gavimo data ir dokumento gavimo registracijos numeris	-
Dokumento adresatas (-ai)	UŽDARA AKCINĖ BENDROVĖ ”INFRAPLANAS“
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Parašo sukūrimo data ir laikas	2024-01-25 16:54
Parašo formatas	Einamojo galiojimo (XAdES-EPES)
Laiko žymoje nurodytas laikas	
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016
Sertifikato galiojimo laikas	2019-04-23 16:11 - 2024-04-21 23:59
Parašo paskirtis	Registravimas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Parašo sukūrimo data ir laikas	2024-01-26 12:03
Parašo formatas	Einamojo galiojimo (XAdES-EPES)
Laiko žymoje nurodytas laikas	
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016
Sertifikato galiojimo laikas	2021-12-14 12:37 - 2026-12-13 23:59
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	-
Pagrindinio dokumento priedų skaičius	0
Pagrindinio dokumento pridedamų dokumentų skaičius	0
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	Elpako v.20240104.4
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	
Elektroninio dokumento nuorašo atspausdinimo data ir ją atspausdinęs darbuotojas	
Paieškos nuoroda	-
Papildomi metaduomenys	-

**NACIONALINIO VISUOMENĖS SVEIKATOS CENTRO
PRIE SVEIKATOS APSAUGOS MINISTERIJOS
KAUNO DEPARTAMENTAS**

Biudžetinė įstaiga, Kalvarijų g. 153, LT-08352 Vilnius.
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 291349070.
Departamento duomenys: K. Petrausko g. 24, LT-44156 Kaunas, tel. (8 37) 33 16 88, faks. (8 37) 33 16 80,
el. p. kaunas@nvsc.lt

UAB „Infraplanas“	2024-02-	Nr.	(2-11 14.3.3 Mr)2-
El. p. info@infraplanas.lt	Į 2024-01-09	Nr.	S-2024-07

DĖL PLANUOJAMOS ŪKINĖS VEIKLOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS

Informuojame, kad Nacionalinio visuomenės sveikatos centro prie Sveikatos apsaugos ministerijos Kauno departamentas išnagrinėjo 2024-01-09 gautą, UAB „Infraplanas“ parengtą Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaitą (toliau – Ataskaita). Prašome pataisyti ir papildyti Ataskaitą pagal teikiamas pastabas bei pasiūlymus:

1. Prašome pagrįsti visų priimamų triukšmo šaltinių triukšmo dydžius, pateikti foninių vėjo elektrinių maksimaliai keliamo triukšmo lygį pagrindžiančius dokumentus, kadangi jie prie 30 lentelės nėra pateikiami.
2. Nurodyti atstumus nuo transformatorinės pastotės iki vėjo elektrinių (toliau – VE) bei gyvenamųjų aplinkų tuo pačiu nurodyti ir pagrįsti (pvz.: pateikiant triukšmo lygį įrodančius dokumentus) planuojamos įrengti transformatorių pastotės priimamą triukšmo dydį ir įvertinti jos keliamą triukšmą ties artimiausiais gyvenamaisiais ir visuomeniniais pastatais bei jų aplinkoje. Pateikti suminį triukšmą.
3. Ataskaitos 92 psl. triukšmo vertinimo dalyje nurodoma, jog rotoriaus su mentėmis skersmuo 172 m, techninėse charakteristikose (25 psl.) rotoriaus su mentėmis skersmuo numatytas iki 200 m, šešėliavimo ir mirgėjimo dalyje vertinta taip pat 200 m. Prašome suvienodinti informaciją.
4. Vadovaudamiesi 2017 m. spalio 31 d. Lietuvos Respublikos aplinkos ministro įsakymu Nr. D1-885 patvirtinto Planuojamos ūkinės veiklos poveikio aplinkai vertinimo dokumentų rengimo tvarkos aprašo (toliau – Tvarkos aprašas) 6 ir 7 p. prašome įvertinti suminį poveikį aplinkai ir visuomenės sveikatai su tos pačios planuojamos ūkinės veiklos (toliau – PŪV) objektais ir kita PŪV aplinkoje vykdoma ūkine veikla dėl šešėliavimo ir kitų veiksnių, galinčių daryti neigiamą poveikį, taip pat nurodyti kaip bus užtikrinta šių veiksnių atitiktis nustatytoms, Ataskaitoje nurodytoms ribinėms vertėms. Prašome pateikti VE įtaką šešėliavimui atsižvelgiant ne tik į PŪV planuojamą VE parką, bet ir į esamus, suplanuotus VE parkus.
5. Tikslinti informaciją, kodėl šešėlių mažinimo priemonės (VE stabdymas) numatytos 11, 12, 22 VE, nors Ataskaitos 39 lentelėje matoma, jog šešėlių trukmė per metus bus viršijama Q, R, AG plane pažymėtose aplinkose šiais nurodytais adresais Barsukinės k. 8, Žeimių sen., Jonavos r. sav.; Barsukinės k. 6, Žeimių sen., Jonavos r. sav.; Aklių k. 8, Žeimių sen., Jonavos r. sav. Taip pat informacija nesutampa su informacija pateikta Ataskaitos 95 psl. lentelėje (pvz.: sodybų žymėjimai ir adresai Aklių k. 8, Žeimių sen., Jonavos r. sav. Adresas žymimas „BY“ ir yra ~690 m nuo VE23).
6. Prašome patikslinti maksimalaus sukeliamo triukšmo modeliavimui priimtas VE darbo sąlygas, nurodant, koks priimamas vienu metu veikiančių vėjo elektrinių skaičius kiekvienos gyvenamosios aplinkos atžvilgiu, tuo pačiu patikslinant atstumus tarp VE.

7. Prašome tikslinti ir pagrįsti informaciją dėl vibracijos įtakos gyvenamajai aplinkai, pateikiamas 1 literatūros šaltinis yra 19 metų senumo, šaltinis pateikiamas anglų kalba.
8. Ataskaitos triukšmo vertinimo dalyje teigiama, kad „<...> gaus gyventojų sutikimus (jei atstumai iki gyventojų mažesni nei keturi padauginti iš stiebo aukščio) arba negavus sutikimų bus statomos žemesnės elektrinės“ bei šešėliavimo vertinimo dalyje nurodoma, jog „veiklos vykdytojui nusprendus įrengti mažesnių parametrų VE, šios priemonės taikymo reikalingumas mažėja arba visai išnyksta“. Vadovaujantis Tvarkos aprašo 17.2 p., 17.5 p. prašome detaliau išnagrinėti ir pagrįsti informaciją nurodant konkrečius techninius VE parametrus, kurie atitinkamai turėtų būti projektuojami, kad artimiausi gyventojai nepatektų į poveikio zoną ir būtų išlaikoma atitiktis visuomenės sveikatos teisės aktų reikalavimams.
9. Vadovaujantis Tvarkos aprašo 17.10 p. prašome tikslinti ir detalizuoti informaciją apie priemones, kurių numatoma imtis siekiant išvengti galimo reikšmingo neigiamo poveikio aplinkai ir visuomenės sveikatai (pvz.: šešėliavimo mažinimo mechanizmas/VE stabdymas) nurodant, kaip bus užtikrintas šešėliavimo mažinimo mechanizmo nenutrūkstamas veikimas, pagal kokius kriterijus bus vertinamas numatomo šešėliavimo mažinimo poreikis, kokios priemonės numatomos šio mechanizmo gedimo metu ir pan.
10. Prašome Ataskaitą teikti vadovaujantis Tvarkos aprašo 25 p. reikalavimais (pvz.: Infragarso vertinimo dalyje nenurodyti cituojami ir nagrinėjami šaltiniai, nėra aišku iš kur pateikta skaičiavimo formulė).
11. Ataskaitoje nurodoma, jog „Triukšmo padidėjimas gali sukelti tam tikrą susierzinimą. Susierzinimo poveikis laikui bėgant mažės.“ Prašome tikslinti, pagrįsti informaciją kaip mažės susierzinimas, kaip vertinama, kada susierzinimas turėtų praeiti ir t.t.

Nuorašas tikras
Nacionalinis visuomenės sveikatos centras prie Sveikatos apsaugos ministerijos

2024-02-01

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Nacionalinis visuomenės sveikatos centras prie Sveikatos apsaugos ministerijos 291349070, Kalvarijų g. 153, 08352 Vilnius
Dokumento pavadinimas (antraštė)	DĖL PLANUOJAMOS ŪKINĖS VEIKLOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS
Dokumento registracijos data ir numeris	2024-02-01 Nr. (2-11 14.3.3 Mr)2-3913
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2024-02-01 14:48:40 (GMT+02:00)
Parašo formatas	XAdES-T
Laiko žymoje nurodytas laikas	2024-02-01 14:48:45 (GMT+02:00)
Informacija apie sertifikavimo paslaugų teikėją	ADIC CA-A, Asmens dokumentu israsymo centras prie LR VRM LT
Sertifikato galiojimo laikas	2023-06-07 10:58:36 – 2026-06-06 10:58:36
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT" išduotą sertifikatą "Dokumentų valdymo sistema Avilys, Nacionalinis visuomenės sveikatos centras, į.k.291349070 LT", sertifikatas galioja nuo 2022-12-08 09:05:49 iki 2025-12-07 09:05:49
Pagrindinio dokumento priedų skaičius	–
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	Dokumentų valdymo sistema Avilys, versija 3.5.68
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2024-02-01 16:33:06)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2024-02-01 16:33:06 Dokumentų valdymo sistema Avilys

Nuorašas tikras
Nacionalinis visuomenės sveikatos centras prie Sveikatos apsaugos ministerijos

2024-02-01

Valstybinės saugomų teritorijų tarnybos prie Aplinkos ministerijos pastabos UAB „Ignitis renewables projektai“ planuojamam 25 vėjo elektrinių parko įrengimui Jonavos raj. sav.

1. Paukščių apsaugai svarbioje teritorijoje (PAST) Labūnavos miškas (kurios ribos sutampa su Labūnavos miško biosferos poligono riba) yra saugoma VE poveikiui jautri paukščių rūšis mažasis erelis rėksnys (toliau – MER). Remiantis Aplinkos ministro 2023 m. gruodžio 12 d. įsakymu Nr. D1-406 patvirtintu „Detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašu“ (toliau – Aprašas) PAST, kuriuose saugomi MER, VE poveikis laikomas reikšmingu neigiamu, kai VE statomos iki 2 km PAST. Lietuvos ornitologų draugijos su partneriais – Pajūrio tyrimų ir planavimo institutu ir Lietuvos energetikos institutu nuo 2015 m. vasario iki 2017 kovo mėn. įgyvendino projekto „Vėjo energetikos plėtra ir biologinei įvairovei svarbios teritorijos (sutrump. – VENBIS)“ metu, taip pat buvo nustatyta, kad ne tik pačios PAST, bet ir buferinės apsaugos zonos aplink šias teritorijas, MER atveju 2 km zona aplink PAST, yra labai jautrios teritorijos VE atžvilgiu. Į 2 km spindulį nuo PAST patenka 7 VE, tačiau tokių VE gali būti ir daugiau, nes dėl mažo žemėlapio informatyvumo sunku įvertinti tikslų atstumą nuo VE iki PAST. Todėl atsižvelgiant į aukščiau pateiktus argumentus galima teigti, kad VE statymas mažesniu nei 2 km atstumu nuo PAST, kuriame saugomi MER sukels reikšmingai neigiamą poveikį PAST Labūnavos miškas.

Pagal Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 12 straipsnio 12 dalį, jeigu atliekant PAV nustatoma, kad PŪV įgyvendinimas sukels reikšmingą neigiamą poveikį „Natura 2000“ teritorijoms, atsakingoji institucija Aplinkos apsaugos agentūra gali priimti teigiamą sprendimą dėl PŪV įgyvendinimo, jeigu PŪV privalo būti įgyvendinama dėl įpareigojančių svarbesnio visuomenės intereso priežasčių, tarp jų socialinio ar ekonominio pobūdžio, tiktai tuo atveju, jeigu nėra alternatyvių PŪV sprendinių. Todėl PAV ataskaitoje būtina išnagrinėti ir galimybes (PŪV vietos alternatyvas) VE atitraukti bent 2 km atstumu nuo PAST Labūnavos miškas. Tačiau pagal Ataskaitoje pateiktą informaciją matyti, kad PŪV vietos alternatyvos net nebuvo nagrinėjamos.

Atkreipiame dėmesį, kad Europos komisijos pranešime „Planų ir projektų poveikio „Natura 2000“ teritorijoms vertinimas. Buveinių direktyvos 92/43/EEB 6 straipsnio 3 ir 4 dalių taikymo metodinės gairės“ (2021/C 437/01) nurodoma, kad „*Buveinių direktyva, kaip ir visi ES aplinkos apsaugos teisės aktai, yra pagrįsta atsargumo principu: tai reiškia, kad tam tikro veiksmo reikšmingo neigiamo poveikio mokslinių įrodymų nebuvimas negali būti naudojamas kaip argumentas to veiksmo patvirtinimui pateisinti. Taikant 6 straipsnio 3 dalies procedūrą, atsargumo principas reiškia, kad prieš leidžiant įgyvendinti planą arba projektą būtina įrodyti, kad nebus neigiamo poveikio „Natura 2000“ teritorijoms. Kitaip tariant,* ***jeigu nėra tikrumo dėl to, ar bus koks nors neigiamas poveikis, plano arba projekto patvirtinti negalima****.*“. Tačiau pagal aukščiau pateiktas VENBIS rekomendacijas ir Aprašą yra laikoma, kad VE statomos mažesniu nei 2 km atstumu nuo PAST, kuriuose saugomi MER sukels reikšmingai neigiamą poveikį

Todėl Tarnybos nuomone VE planuojamos mažesniu nei 2 km atstumu nuo PAST turėtų būti atitraukiamos iš šios zonos.

1 - https://doi.org/10.1016/j.gecco.2020.e01099
2 - https://doi.org/10.1002/wsb.1025

2. Remiantis Planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 3 str. 9 d. atliekant poveikio aplinkai vertinimą turi būti atliekamas suminis poveikis aplinkai:

„*1)* ***visi planuojami funkciškai ir (ar) chronologiškai susiję tos pačios planuojamos ūkinės veiklos objektai;***

2) kita planuojamos ūkinės veiklos artimoje aplinkoje vykdoma ūkinė veikla*;*

3) kita planuojamos ūkinės veiklos artimoje aplinkoje planuojama ūkinė veikla, dėl kurios priimtas ir yra galiojantis sprendimas dėl planuojamos ūkinės veiklos poveikio aplinkai, kad veikla atitinka aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus, ar priimta ir yra galiojanti atrankos išvada, kad poveikio aplinkai vertinimas neprivalomas.“

Prašome atlikti ir pateikti suminį, 5 km spinduliu nuo PŪV teritorijos vykdomų ar planuojamų vykdyti ūkinių veiklų, poveikį sąveikoje su šioje Ataskaitoje planuojama PŪV.

3. Saugomų rūšių informacinės sistemos duomenimis (toliau – SRIS) PŪV teritorijoje Barsukinės miške yra registruota juodojo gandro lizdavietė, tačiau nei Ataskaitoje, nei jos prieduose nepateikiama jokių duomenų apie šią lizdavietę. Daugiau PLANUOJAMOS ŪKINĖS VEIKLOS – VĖJO ELEKTRINIŲ PARKO ĮRENGIMO ŽEIMIŲ SEN., JONAVOS RAJONE – ATRANKOS DĖL POVEIKIO APLINKAI VERTINIMO DOKUMENTE (toliau – Atrankos dokumentas) (kurį galima rasti aaa.lrv.lt >> Veiklos sritys >> Poveikio aplinkai vertinimas >> 2023 m >> Atrankos dėl poveikio aplinkai vertinimo informacija 2023 m >> Kauno apskritis >> 37) pateikta, kad vykdytų tyrimų duomenimis (Atrankos dokumento 54 psl.) Vypališkės miške yra identifikuota juodojo gandro lizdavietė (1 pav.). Pagal Apraše taikomą lizdavietės apsaugos zoną (kurioje poveikis juodiesiems gandrams laikomas reikšmingai neigiamu), 2,5 km apsaugos spindulys apie lizdavietę, patektų apie 11 planuojamų VE (VE Nr. 1-11).

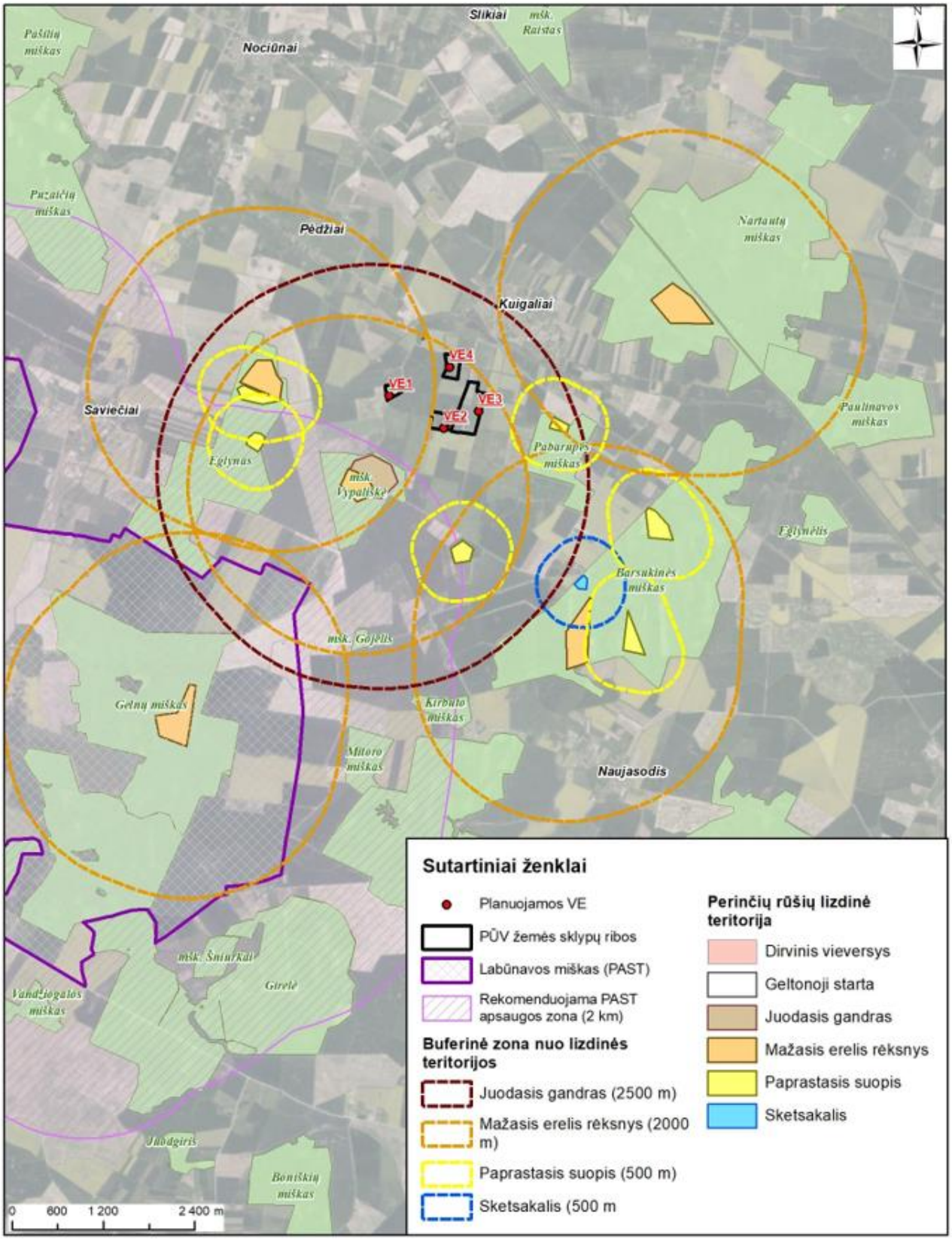
Atrankos dokumente pateikta informacija apie identifikuotas dar 3 MER lizdavietes PŪV teritorijoje (1 pav.), kurios nėra pateiktos ar identifikuotos šioje PAV Ataskaitoje. Pagal Apraše ir VENBIS taikomą lizdavietės apsaugos zoną (kurioje poveikis MER laikomas reikšmingai neigiamu), 2 km apsaugos spindulys apie lizdavietę, patektų apie 15 planuojamų VE (tikslų skaičių sunku identifikuoti, kai informacija lyginama tarp skirtingų MS Word/PDF dokumentų).

Taip pat tame pačiame Atrankos dokumente pateikiama informacija apie 5 paprastojo suopio lizdavietes (1 pav.), bei SRIS yra informacija apie dar vieną suopio lizdavietę Nartautų miške į pietus nuo geležinkelio, apie visas šias lizdavietes nepateikta informacijos šioje PAV Ataskaitoje.

Prašome įvertinti šią informaciją apie VE poveikiui jautrių paukščių rūšių lizdavietes, ją aktualizuojant jeigu reikia ir atliekant lauko tyrimus, įvertinant kiek VE patenka į VE poveikiui jautrių paukščių rūšių lizdines teritorijas. VE patenkančios į reikšmingo neigiamo poveikio zonas turėtų būti iš jų atitraukiamos arba pateikiamos poveikio mažinimo priemonės.

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3.6.9 pav. VE poveikiui jautrių paukščių lizdai identifikuoti gretimose teritorijose atliktų tyrimų metu.

1 pav. Ištrauka iš atrankos dokumento

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4. Priede Ornitologinių tyrimų ataskaita nurodote, kad vykdydami VE poveikiui jautrių paukščių rūšių stebėjimus rinkote informaciją apie skridimo kryptis ir maitinimosi vietas. Prašome pateikti šią informaciją apie VE poveikiui jautrias paukščių rūšis. Taip pat prašome patikslinti informaciją kiek tyrėjų vykdė stebėjimus.

5. VENBIS ir Apraše nurodoma, kad VE poveikiui jautrių paukščių rūšių lizdaviečių paieška turėtų būti vykdoma PŪV teritorijoje ir 2 km spinduliu apie šią teritoriją. Prašome pateikti informaciją kokia apimtimi buvo vykdoma VE poveikiui jautrių rūšių lizdų paieška, nurodant tikslias teritorijas, kur tai buvo vykdoma.

6. Tarnyba nesutinka su siūloma priemone VE poveikiui jautrioms paukščių rūšims *„Atsižvelgiant į mažųjų erelių rėksnių perėjimo vietas, mitybinių plotų maršrutus ir skraidymo intensyvumą ir juodojo gandro lizdo vietą ant VE Nr. 14, 15, 16 siūloma montuoti VE aptinkančias ir stabdančias paukščiui prisiartinus sistemas (Bioseco ar pan.). Siekiant netrikdyti paukščių perėjimo ir mitybos, nenaudoti garsiniu signalu ar vaizdinėmis priemonėmis paukščius baidančių sistemų. Jei ant VE, esančių labai arti miško, neįmanoma montuoti VE stabdančių sistemų, siūloma atsisakyti šių VE įrengimo arba stabdyti jų veikimą mažųjų erelių rėksnių perėjimo metu balandžio – rupjūčio mėn. šviesiu paros metu. Prie VE Nr. 1, 2, 3, 4, 5, 6, 7, 8, 9 ateityje vykdomo monitoringo metu atlikti papildomus tyrimus, siekiant papildomai įvertinti mažojo erelio rėksnio skraidymo maršrutus. Nustačius galimą reikšmingą poveikį šiems paukščiams, ant šių VE taip pat montuoti aptikimo – reagavimo sistemas.*“, nes VE stabdymas yra laikui imlus procesas, todėl tokiose jautriose vietose, paukščiams perint šalia miško pakraščio, VE gali nespėti sustoti laiku ir apsaugoti VE poveikiui jautrias paukščių rūšis, nes paukščiai savo lizdinėse teritorijose juda labai įvairiai (pakyla, leidžiasi iš įvairių vietų, skirtingais greičiais). Beto šio tipo priemonės nėra išbandytos su MER ir juodaisiais gandrais, todėl neaišku kokį apsaugos lygį ši priemonė suteiktų šiems paukščiams. Ypač jautri yra 2 km nuo PAST zona, kaip buvo rašyta 1 punkte pagal Europos komisijos Buveinių direktyvos 92/43/EEB 6 straipsnio 3 ir 4 dalių taikymo metodinės gaires“ (2021/C 437/01) „***jeigu nėra tikrumo dėl to, ar bus koks nors neigiamas poveikis, plano arba projekto patvirtinti negalima***.“.

7. Ataskaitoje ir priede Ornitologinių tyrimų ataskaita nurodote, kad „*VE elektrinės, kurios stovi arčiau nei 200 m (+ atstumas, lygus mentės ilgiui) iki miško ar linijinio objekto (krūmais ar medžiais apaugusio kelio, kanalo, upelio) gali turėti reikšmingą neigiamą poveikį šikšnosparniams ir turėtų būti numatytas stabdymas tamsiu paros metu nuo saulės laidos iki patekėjimo nuo gegužės 1 d. iki spalio 15 d*.“ Tačiau peržiūrėjus VE sąrašą, kurioms siūlomos priemonės pastebėjome, kad neįtrauktos visos į šią zoną patenkančios VE (VE Nr. 10, 12, 15, 16, 17, pagal Ataskaitos 34 ir 61 psl. pateiktą informaciją).

Tarnybai taip pat kelia abejonių pasiūlytos poveikio mažinimo priemonės „akustines šikšnosparnius nuo sparnuotės nedideliu atstumu atbaidančias priemones“ veiksmingumas. Visų pirma nėra pateikta informacijos koks akustinių signalų principas bus naudojamas ar atitinkamos rūšies socialiniai pavojaus signalai, ar metodas kuomet skleidžiant ultragarsinius signalus, bus bandoma užgožti pačių šikšnosparnių skleidžiamus echo lokacinius signalus, taip bandant priversti juos pasitraukti iš VE menčių zonos. Pirmo metodo atveju abejonių kelia ar siūloma priemonė nesukels priešingo efekto, nes šikšnosparniai yra socialiniai gyvūnai ir reaguodami į gentainio pavojaus signalus gali, kaip tik skristi prie jo, šiuo atveju signalus skleidžiančio įrenginio. Antruoju atveju, kadangi skirtingo bangos ilgio ultragarsiniai signalai erdvėje sklinda tik tam tikru atstumu, todėl klausimas ar kai VE mentės planuojamos 100 m ilgio ar akustiniai signalai padengs visą menčių sukimosi zoną. Antra ar kuomet bus užgožiami pačių šikšnosparnių skleidžiamai echo lokaciniai signalai ar tai

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nesutrikdys šikšnosparniams orientuotis erdvėje ir taip nesukels pavojaus. JAV vykdytų tyrimų metu buvo nustatyta, kad siūloma priemonė blokuojanti šikšnosparnių echo lokaciją VE menčių veikimo zonoje buvo veiksminga tik tam tikroms rūšims, mirtingumą sumažinant nuo 29 iki 78 procentų, skirtingoms rūšims fiksuotas skirtingas poveikis, tačiau atbaidymo efektą sukėlė ne visoms rūšims, o ir toms rūšims kurioms buvo pastabėtas reikšmingas poveikis skyrėsi tarp skirtingų metų, fiksuota ir metų kuomet apskritai teigiamas poveikis nepasireikšdavo[1, 2]. Svarbu atkreipti dėmesį, kad vieno iš tyrimų metu buvo naudojamos dvi poveikio mažinimo priemonės tiek atbaidymo įrenginiai, tiek vėjo menčių sukimosi greičio sumažinimas. Taip pat svarbu atkreipti dėmesį, kad tyrimai buvo vykdyti ne su Lietuvoje aptinkamomis šikšnosparnių rūšimis, todėl kaip parodė aukščiau minimi tyrimai, kai nustatytas skirtingas priemonės poveikis skirtingoms rūšims, nėra aišku, kaip tokia priemonė veiktų Lietuvoje aptinkamas rūšis.

Todėl tarnybos nuomone VE kurių pastatymas gali sukelti/sukels reikšmingai neigiamą poveikį, jeigu šios VE nebūtų atitrauktos iš poveikio zonos, reikėtų taikyti kitą Ataskaitoje siūlomą poveikio mažinimo priemonę, t. y. startinio greičio didinimą nuo gamykliškai nustatyto iki 6 m/s nuo saulės laidos iki saulėtekio apimant laikotarpį nuo gegužės 1 d.– iki spalio 15 d. (oro temperatūra ne mažesnė kaip 10 °C, nelyja, nėra rūko).

8. Ataskaitoje (67 psl.) nurodote, kad „*Remiantis Jonavos rajono savivaldybės teritorijos bendrojo plano keitimo, patvirtinto 2017 m. gruodžio 21 d. Jonavos rajono savivaldybės tarybos sprendimu Nr. 1TS-295 gamtinio karkaso brėžiniu (žr. 26 pav.), planuojamos VE Nr. 5, 6, 14, 22 ir 23 patenka į geosistemų vidinio stabilizavimo arealą, kuriame palaikomas ir stiprinamas esamas kraštovaizdžio pobūdis ir natūralumas (VE Nr. 5, 6, 22 ir 23) ir išlaikomas ir saugomas esamas natūralus kraštovaizdžio pobūdis (VE Nr. 14).*“ Gamtinio karkaso nuostatų (patvirtintų Aplinkos ministro 2007 m. vasario 14 d. įsakymu Nr. D1-96) 14 p. nurodoma, kad „*Gamtinio karkaso teritorijoje planuojant ūkinę veiklą, įrašytą į Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 1 ir 2 priedus, atliekamos atitinkamos poveikio gamtiniam kraštovaizdžiui ir biologinei įvairovei vertinimo procedūros, numatomos priemonės antropogeniniam poveikiui kompensuoti, gamtiniam kraštovaizdžiui ir biologinei įvairovei išsaugoti ar atkurti.*“

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2.3 Priedėlis. Subjektų išvados PAV ataskaitai

LIETUVOS GEOLOGIJOS TARNYBA
PRIE APLINKOS MINISTERIJOS

Aplinkos apsaugos agentūrai
El. p. aaa@gamta.lt

2025-
Į 2025-08-27

Nr. (7)-1-7-
Nr. (30-2)-A4E-8672

Kopija
UAB „Infraplanas“
El. p. info@infraplanas.lt

DĖL PLANUOJAMOS ŪKINĖS VEIKLOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS

Lietuvos geologijos tarnyba prie Aplinkos ministerijos (toliau – Tarnyba), pagal kompetenciją susipažino su UAB „Infraplanas“ parengta UAB „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaita (toliau – Ataskaita). Informuojame, kad Tarnyba Ataskaitai, kurioje nusakomas vėjo elektrinių parko įrengimas ir eksploatacija, pritaria.

PRIDEDAMA. Planuojamos ūkinės veiklos poveikio aplinkai vertinimo procedūrų vykdymo tvarkos aprašo 2 priedas „Išvada dėl „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaitos ir poveikio aplinkai“, 3 lapai.

Planuojamos ūkinės veiklos poveikio aplinkai vertinimo procedūrų vykdymo tvarkos aprašo
2 priedas

IŠVADA DĖL VĖJO ELEKTRINIŲ PARKO (JONAVOS RAJ. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS IR POVEIKIO APLINKAI

1. Planuojamos ūkinės veiklos pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaita.
2. Išvados dėl planuojamos ūkinės veiklos poveikio aplinkai pobūdis – pritariama.
3. Motyvai dėl pritarimo ar nepritarimo planuojamai ūkinei veiklai

Vėjo jėgainės ir jų veikla prie žemės gelmių struktūrą ar požeminius gamtinius išteklius neigiamai veikiančių objektų nepriskiriamos.

PŪV vietos paviršiuje slūgso kvartero sistemos nuogulos, kurių storis siekia iki 30 - 50 m. Kvartero nuogulų storymę PŪV vietoje sudaro viršutinio pleistoceno Viršutinio Nemuno svitos dariniai (Baltijos ir Grudos posvitčių fliuvioglacialinės, limnoglacialinės, glacigeninės nuogulos bei holoceno aliuvinės, deliuvio, limninės ir biogeninės nuogulos) ir vidurinio pleistoceno Medininkų posvitės fliuvioglacialinės ir glacigeninės nuogulos. Skirtingo amžiaus morenines nuogulas kai kur skiria nedidelio storio tarpstadijinės akvaglacialinių nuogulų (įvairaus rupumo, kartais žvirgždingo smėlio) tarpsluoksniai ir lęšiai. Po kvartero storyme slūgso viršutinio devono (D_3) nuogulos. Tiriamajame plote ir šalia jo išgręžtų gręžinių duomenimis, planuojamų vėjo jėgainių įrengimo vietoje pokvarterinio reljefo paviršiuje atsidengia devono sistemos, viršutinio skyriaus, franio aukšto Pliavinių serijos dolomitas ir mergelis. Ties ataskaitoje pateikiamu 18 paveikslu „Prekvartero geologinio žemėlapio ištrauka“ reikia nurodyti jo sudarymo metus, mastelį, autorių, pateikti legendoje minimus geologinius indeksus. Rajono aktyvios vandens apykaitos zonos, slūgsančios virš vidurinio devono Narvos regioninės vandensparos, hidrogeologiniame pjūvyje išskiriami: gruntinio vandens horizontas, spūdiniai kvartero tarpmoreniniai ir spūdiniai prekvartero vandeningieji horizontai ir kompleksai. Gruntinis vanduo susikaupęs dabartinėse pelkių ir aliuvinėse, viršutinio pleistoceno fliuvioglacialinėse ir limnoglacialinėse nuogulose (durpėse, smėlyje, žvyre) ir viršutinėje moreninių priemolių ir priesmėlių dalyje. Vandens slūgsojimo gylis – iki 5 - 7 m.

Į planuojamų vėjo jėgainių ir jų aptarnavimo infrastuktūros teritoriją nepatenka požeminio vandens vandenviečių apsaugos zonos, o taip pat maksimalios bei didelės požeminio vandens proveržio rizikos zonos, nustatytos Lietuvos geologijos tarnybos prie Aplinkos ministerijos direktoriaus 2015 m. sausio 12 d. įsakymu Nr. 1-6 „Dėl Lietuvos teritorijos požeminio vandens proveržio rizikos zonų ribų nustatymo“. PŪV objektų statybos metu įrengiant VE pamatus į žemės gelmes bus įsigilinama iki keliasdešimt metrų ir bus atidengti tiek gruntinio vandens sluoksnis, tiek, tikėtina, giliau slūgsantys kvartero tarpsluoksniniai ir prekvartero spūdiniai vandeningi horizontai ir kompleksai. PŪV teritorijoje viešajam vandens tiekimui požeminio vandens gavybos gręžiniais eksploatuojami kvartero tarpmoreniniai ir viršutinio-vidurinio devono Šventosios - Upninkų vandeningieji sluoksniai slūgso didesniame nei 30 m gylyje. Ne viešajam požeminio vandens tiekimui naudojami vandeningieji sluoksniai slūgso 20 ir daugiau metrų gylyje. Todėl, įrengiant pamatus vėjo elektrinėms, turėtų būti numatyta vandeningųjų sluoksnių tarpusavio izoliacija, siekiant išvengti požeminio vandens pertakos ir galimos taršos nuo žemės paviršiaus. Hidrodinaminiu požiūriu, jėgainių pamatas, dėl palyginti nedidelės apimties horizontalia kryptimi, gruntinio vandens filtracijai kliūčių nesudarys. Vėjo jėgainių veiklos metu neišgaunamas ir nenaudojamas požeminis

vanduo, nenaudojamos pavojingos medžiagos, nesusidaro gamybinės ir buitinės nuotekos. Todėl vėjo jėgainių veikla neįtakoja požeminio vandens hidrodinaminių bei požeminio ir paviršinio vandens hidrocheminių formavimosi sąlygų.

Gyvenamoji aplinka, kurioje įrengti gręžtiniai ar šachtiniai šuliniai, yra atokiau nuo planuojamų vėjo jėgainių įrengimo vietų. Todėl, tinkamai įrengus pamatus, gręžtiniams ir šachtiniams šuliniams, vandenvietėms bei juose išgaunamiems požeminio vandens ištekliams PŪV įtakos nedarys. Ataskaitoje pagrįstai numatoma, kad prieš įgyvendinant PŪV sprendinius statinių techninio projektavimo etape prieš vykdant tokio pobūdžio darbus bus detaliai ištirtos vėjo jėgainių vietos geologinės - hidrogeologinės sąlygos ir atlikti būtini detalūs inžineriniai geologiniai ir geotechniniai tyrinėjimai, kurie atliekami pagal statybos techninio reglamento STR 1.04.02:2011 „Inžineriniai geologiniai ir geotechniniai tyrimai“ reikalavimus, identifikuojant galimas rizikos zonas ir atitinkamai numatant būtinus techninius sprendinius nepageidaujamų geologinių reiškinių grėsmei išvengti ar suvaldyti objektų statybos ir veiklos metu bei statinių techniniams parametrams pagrįsti.

Žemės gelmių įstatymo 27 straipsnio ir Specialiųjų žemės naudojimo sąlygų 109 straipsnio nuostatos taikomos tik detaliai iššvalgytiems telkiniams. Planuojamos vėjo jėgainių įrengimo vietos nepatenka į detaliai iššvalgytų telkinių teritorijas, yra atokiau nuo jų. Vėjo jėgainių Nr. 19, 20 ir 21 įrengimo vietos patenka į Lankesos III smėlio prognozinių išteklių ploto (Žemės gelmių registre identifikavimo Nr. 2561) teritoriją. Šis rajono pakraštys toli gražu nepasižymi naudingųjų iškasenų gausa ir yra siekis išsaugoti čia slūgsantį klodą visuomenės praktiniams poreikiams ateityje. Rekomenduojame apsvarstyti galimybę vėjo jėgaines įrengti tuose pačiuose sklypuose tik numatant kitą jų įrengimo vietą: jėgainę Nr. 20 patraukti 50 m, jėgainę Nr. 21 30 m rytų kryptimi nuo dabar numatomos įrengimo vietos (šiuo atveju išlaikomas 200 m + sparnuotės ilgis atstumas iki miško masyvo). Vėjo jėgainė Nr. 19 įrengiama galimai arčiau kelio, praeinančio į pietus nuo dabar projektuojamos jos vietos. Šiuo atveju Lankesos III smėlio prognozinis plotas išlieka nepažeistas. Kitų vėjo jėgainių įrengimo vietos šiuo metu nepatenka į iššvalgytų telkinių ar prognozinių plotų ribas.

Atkreipiame dėmesį, kad reikia patikslinti literatūros sąrašą. Ataskaitoje pateiktame literatūros sąraše 29 ir 41 punktuose nurodyta ta pati išeities medžiaga - du kartus minimas „Kvartero geologinis žemėlapis M 1:200 000“, tuo tarpu neminimas „Prekvarero geologinis žemėlapis M 1:200 000“.

(atsižvelgiant į aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus ir pateikiant nuorodas į juos).

4. Alternatyva (-os), kuriai (-oms) pritariama ar nepritariama.
Pritariama vėjo elektrinių įrengimo alternatyvai.
(nurodoma, jeigu ataskaitoje nagrinėtos alternatyvos)

5. Siūlomos nustatyti planuojamos ūkinės veiklos įgyvendinimo sąlygos, susijusios su atliktu poveikio aplinkai vertinimu (nurodoma, jeigu tokias sąlygas reikia ir galima nustatyti pagal teisės aktų reikalavimus):
5.1. iki veiklos vykdymo pradžios _ rekomenduojama techninio projektavimo etape atlikti preliminarius ekogeologinius tyrimus pagal „Ekogeologinių tyrimų reglamento“ reikalavimus;
5.2. statybos etape_____;
5.3. veiklos vykdymo etape_____;
5.4. veiklos nutraukimo etape_____.

6. Nuomonė dėl vertinimo metodų, rezultatų, ataskaitos kokybės
_____.
(pagrindžiama teisės aktų ar tarptautinių standartų reikalavimais, moksline literatūra)

7. Siūlomos nustatyti priemonės galimam reikšmingam neigiamam poveikiui aplinkai išvengti, jį sumažinti, kompensuoti, atkurti tai, kas pažeista:
7.1. iki veiklos vykdymo pradžios_____;
7.2. statybos etape_____;
7.3. veiklos vykdymo etape_____;
7.4. veiklos nutraukimo etape_____.
8. Informacija apie poveikio aplinkai vertinimo metu nustatytą sanitarinės apsaugos zoną – pritariama ar nepritariama (ko nereikia, ištrinama. Pildo tik sveikatos apsaugos ministro įgaliota institucija).

(Išvada teikiama pagal Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 6 straipsnio 5 dalyje nurodytą kompetenciją: 1) sveikatos apsaugos ministro įgaliotos institucijos – dėl planuojamos ūkinės veiklos veiksnių, darančių įtaką visuomenės sveikatai, galimo poveikio visuomenės sveikatai; 2) kultūros ministro įgaliotos institucijos, atsakingos už kultūros vertybių apsaugą, – nekilnojamojo kultūros paveldo apsaugos srityje dėl galimo planuojamos ūkinės veiklos poveikio nekilnojamajam kultūros paveldui; 3) vidaus reikalų ministro įgaliotos institucijos, atsakingos už gaisrinę ir civilinę saugą, – dėl planuojamos ūkinės veiklos vykdymo metu galimų įvykių, ekstremaliųjų įvykių, ekstremaliųjų situacijų, numatomų priemonių joms išvengti ar sušvelninti ir padariniams likviduoti; 4) aplinkos ministro įgaliotos saugomų teritorijų institucijos – dėl planuojamos ūkinės veiklos įgyvendinimo poveikio valstybės saugomoms teritorijoms, įskaitant Europos ekologinio tinklo „Natura 2000“ teritorijas; Vyriausybės tvirtinamame Lietuvos Respublikos teritorijos bendrajame plane apibrėžtoms ypač saugomo kraštovaizdžio teritorijoms ir ypač raiškiems kraštovaizdžio kompleksams; saugomų rūšių radavietėms ar augavietėms; 5) savivaldybės vykdomoji institucija – dėl planuojamos ūkinės veiklos poveikio aplinkai vertinimo ir šios veiklos galimo poveikio aplinkai, atsižvelgdama į patvirtintų ir galiojančių teritorijų planavimo dokumentų sprendinius, galimybes pagal teritorijų planavimą reglamentuojančių teisės aktų reikalavimus juos keisti, galimą poveikį savivaldybės įsteigtoms saugomoms teritorijoms ir pagal Lietuvos Respublikos aplinkos monitoringo įstatymą vykdomos savivaldybės aplinkos stebėsenos (monitoringo) duomenis. Kiti anksčiau nenurodyti PAV subjektai išvadas teikia pagal jiems įstatymuose nustatytą kompetenciją.)

_____

Suformuota: 2025 m. rugsėjo 16 d. 11:07
Suformavo:

Siunčiamasis dokumentas

Registracijos duomenys	
Būsena	Registruota
Registracijos data	2025-09-16
Registracijos numeris	(7)-1-7-4141
Dalinys	Kietųjų naudingųjų iškasenų ir kartografavimo skyrius
Registras	1-7: Siunčiamų dokumentų registras
Byla	2025: 1.7 E: Susirašinėjimo su Lietuvos Respublikos aplinkos ministerija, kitomis valstybės įstaigomis geologijos klausimais dokumentai ir jų registras 1.3
Bylos forma	Elektroniniai dokumentai
Registratorius	
Elektroninis dokumentas	Taip
Darbų eiga	Siunčiamo dokumento procesas [KNIR] [proj]
Dokumento informacija	
Siuntėjai	Lietuvos geologijos tarnyba prie Aplinkos ministerijos
Gavėjai	Aplinkos apsaugos agentūra, UAB "Infraplanas", Kauno r. sav., Karmėlavos sen., Biruliškių k., Inovacijų g. 3, LT-54469, 160421745
Dokumentą parengė	
Dokumentą derino	
Dokumentą pasirašė	
Antraštė	DĖL KVIETIMO DALYVAUTI POVEIKIO APLINKAI VERTINIMO PROCESE (UAB „IGNITIS RENEWABLES PROJEKTAI“ VE parkas Jonavos r. sav.)
Dokumento rūšis	RAŠTAS
Dokumento siuntimo būdas	El. paštu
Lapų skaičius	1
Priedų lapų sk.	3
Laikinas Nr.	177698405

Susieti dokumentai

Pradinis dokumentas (1)

13-8188	2025-08-27	DĖL KVIETIMO DALYVAUTI POVEIKIO APLINKAI VERTINIMO PROCESE (UAB „IGNITIS RENEWABLES PROJEKTAI“ VE parkas Jonavos r. sav.)	RAŠTAS	Vykdoma	2025-09-15

Užduotys (1)

174181014	2025-08-29	Užduotis	Vėluojama	2025-09-15

ADOC

AAA-Infraplanas_Ignitis_atsakymas.adoc

AAA-Infraplanas_Ignitis_atsakymas.docx

Priedai

2_priedas_Infraplanas.docx

Pridedami dokumentai

Pasibaigę darbai

	2025-09-15 09:54:39	Teigiamai derinta versija 1.0. Pastabos:
	2025-09-15 16:15:18	Teigiamai derinta versija 1.0. Pastabos:
	2025-09-16 10:28:02	Teigiamai derinta versija 1.0. Pastabos:
	2025-09-16 10:30:50	Pasirašyta versija 1.0. Pastabos:

	2025-09-16 11:05:48	Registruotas dokumentas: 1-7: Siunčiamų dokumentų registras 2025: 1.7 E: Susirašinėjimo su Lietuvos Respublikos aplinkos ministerija, kitomis valstybės įstaigomis geologijos klausimais dokumentai ir jų registras 1.3

VALSTYBINĖ SAUGOMŲ TERITORIJŲ TARNYBA PRIE APLINKOS MINISTERIJOS

Biudžetinė įstaiga, Antakalnio g. 25, 10312 Vilnius. Tel. +370 659 29483, el. p. vstt@vstt.lt, https://vstt.lrv.lt.
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188724381

UAB „Infraplanas“ 2025-XX-XX Nr. nurodytas metaduomenų kortelėje

Į 2025-01-17 Nr. S-2025-08

Kopija
Aplinkos apsaugos agentūrai

IŠVADA DĖL UAB „IGNITIS RENEWABLES PROJKETAI“ PLANUOJAMO IKI 25 VĖJO ELEKTRINIŲ PARKO ĮRENGIMO IR EKSPLOATACIJOS JONAVOS R. SAV. POVEIKIO APLINKAI VERTINIMO ATASKAITOS IR POVEIKIO APLINKAI

1. **Planuojamos ūkinės veiklos pavadinimas**: Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaita.

2. **Išvados dėl planuojamos ūkinės veiklos poveikio aplinkai pobūdis** – nepritariama ūkinės veiklos vystymo alternatyvai.

3. **Motyvai dėl pritarimo ar nepritarimo planuojamai ūkinei veiklai**:

Poveikio aplinkai vertinimo (toliau – PAV) dokumentų rengėjas – UAB „Infraplanas“ 2025 m. sausio 17 d. raštu Nr. S-2025-08 (toliau – Raštas) nurodė, kad „*Vadovaujantis Lietuvos Respublikos aplinkos ministro 2023 m. gruodžio 12 d. įsakymu Nr. D1-406 „Dėl detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų, aprašo“ su pakeitimais (toliau – Aprašas) 2 punkto reikalavimu, informuojame, jog planuojamos ūkinės veiklos (toliau – PŪV) vykdytojas pageidauja, jog pradėtoms PŪV dėl poveikio aplinkai vertinimo (toliau – PAV) procedūroms būtų taikomi Aprašo reikalavimai.*“ Detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašo (toliau – Aprašas)[1], patvirtinimo įsakymo Lietuvos Respublikos aplinkos ministro 2023 m. gruodžio 12 d. Nr. D1-406 (toliau – Įsakymas) 2 p. nurodomas „*Nustatau, kad Detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašas (toliau – Aprašas) netaikomas planuojamos ūkinės veiklos atrankos dėl poveikio aplinkai vertinimo ir planuojamos ūkinės veiklos dėl poveikio aplinkai vertinimo procedūroms, pradėtoms iki šio įsakymo įsigaliojimo, išskyrus, kai jį taikyti pageidauja planuojamos ūkinės veiklos poveikio aplinkai vertinimo procedūros organizatorius*“. Įsakyme nėra numatyta, kad gali būti taikomos tik tam tikros Aprašo dalys, todėl Valstybinė saugomų teritorijų tarnybą prie Aplinkos ministerijos (toliau – Tarnyba) šios PŪV poveikį aplinkai vertino taikydama Aprašą visa apimtimi.

[1] Patvirtintas Lietuvos Respublikos aplinkos ministro 2023 m. gruodžio 12 d. įsakymu Nr. D1-406 „Dėl Detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašo patvirtinimo“.

Rašte nurodoma, kad „*Visa reikalinga ir aktuali informacija yra pateikiama 5.3 PRIEDĖLYJE* [pati PAV ataskaita ir kiti jos priedai Tarnybai nebuvo pateikti]. *„Ornitologinių tyrimų ataskaita“. Pagrindinė „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaita“ koreguojama nebuvo. Prieš teikiant ataskaitą AAA, ji bus koreguojama pagal prieš tai minėtą priedėlį ir būsimą VSTT išvadą*“, todėl Tarnyba PAV subjekto (PAV pradžia 2023-10-19 – PAV pradžios pranešimo paskelbimo Aplinkos apsaugos agentūros interneto puslapyje paskelbimo diena)) išvadą parengė pagal 5.3. priedėlyje pateiktą informaciją.

Tarnyba nepritaria PŪV vystymo alternatyvai, dėl PŪV ir PAV ataskaitos (toliau – Ataskaita) neatitikimo PŪV PAV teisės aktų, saugomų teritorijų, saugomų gyvūnų rūšių apsaugos teisės aktų reikalavimams bei dėl reikšmingo poveikio „Natura 2000“ tinklo paukščių apsaugai svarbiai teritorijai (toliau – PAST) Labūnavos miškas, laukinių paukščių ir šikšnosparnių rūšims, saugomoms pagal Lietuvos Respublikos saugomų gyvūnų, augalų ir grybų rūšių įstatymą, Lietuvos Respublikos laukinės gyvūnijos įstatymą, Lietuvos Respublikos saugomų gyvūnų, augalų ir grybų rūšių sąrašą[2].

3.1. Motyvai dėl neatitikimo PŪV PAV teisės aktų reikalavimams:

Vadovaujantis PŪV PAV įstatymo 4 str. 1 d. 1 p. vienas iš PAV tikslų yra „*nustatyti, apibūdinti ir įvertinti galimą tiesioginį ir netiesioginį planuojamos ūkinės veiklos poveikį šiems aplinkos elementams: dirvožemiui, žemės paviršiui ir jos gelmėms, orui, vandeniui, klimatui, kraštovaizdžiui ir biologinei įvairovei, ypatingą dėmesį skiriant Europos Bendrijos svarbos rūšims ir natūralioms buveinėms, taip pat kitoms pagal Saugomų gyvūnų, augalų ir grybų rūšių įstatymą saugomoms rūšims, materialinėms vertybėms, nekilnojamosioms kultūros vertybėms ir šių elementų tarpusavio sąveikai*“.

Planuojamos ūkinės veiklos poveikio aplinkai vertinimo dokumentų rengimo tvarkos aprašo[3] (toliau – PAV aprašas) 1 priede nurodoma, kokie tyrimai ir informacija turi būti pateikta Ataskaitoje šiam tikslui pasiekti:

- 93 punkte nurodoma, kad esamos būklės aprašyme turi būti „*Duomenys apie planuojamos ūkinės veiklos vietovėje ir gretimybėse esančias saugomas rūšis, jų augavietes ir radavietes, kurių informacija kaupiama SRIS (saugomų rūšių informacinė sistema) duomenų bazėje (https://sris.am.lt/), jų atstumą nuo planuojamos ūkinės veiklos vietos (objekto ar sklypo, kai toks suformuotas, ribos). Poveikio vertinimui naudojami duomenys apie vietovės biologinę įvairovę turi būti ne senesni kaip 6 metų. Jeigu SRIS paskelbta informacija apie planuojamos ūkinės veiklos vietovėje, esančių saugomų rūšių augavietes ir radavietes yra senesnė kaip 6 metų arba nėra tokių duomenų, PAV dokumentų rengėjas aktualią informaciją apie saugomas rūšis ir kitą vietovės biologinę įvairovę turi surinkti iš kitų prieinamų oficialių šaltinių (pateikiant nuorodas į šaltinius) arba* ***atlikti pakankamos trukmės lauko tyrimus tinkamais metų sezonais, kad gauti rezultatai būtų patikimi ir leistų prognozuoti galimą planuojamos ūkinės veiklos poveikį biologinei įvairovei***“;

- 96 punkte – informacija apie vietovės gyvūniją:

„*96.2. gyvūnų susitelkimo, veisimosi, maitinimosi, poilsio, žiemojimo vietos, migracijos keliai;*

96.3. gyvūnai, saugomi pagal Saugomų gyvūnų, augalų ir grybų įstatymą, ir Europos Bendrijos svarbos gyvūnų rūšys“.

Informacija apie vietovės gyvūniją turėjo būti surinkta atliekant pakankamos trukmės lauko tyrimus tinkamais sezonais. **Aprašo 4 priedo II skyriuje ir 5 priede detaliai nurodyta kokie tyrimai turėjo būti atlikti PŪV teritorijoje**. Tačiau Ataskaitoje pateikti

[2] Patvirtintą Lietuvos Respublikos aplinkos ministro 2003 m. spalio 13 d. įsakymu Nr. 504 „Dėl Lietuvos Respublikos saugomų gyvūnų, augalų ir grybų rūšių sąrašo patvirtinimo“ (2020 m. birželio 9 d. įsakymo Nr. D1-340 redakcija).

[3] Patvirtinto Aplinkos ministro 2017 m. spalio mėn. 31 d. įsakymu Nr. D1-885 „Dėl Planuojamos ūkinės veiklos poveikio aplinkai vertinimo tvarkos aprašo patvirtinimo“.

lauko tyrimai neatitinka PAV aprašo 1 priedo 93 p, tuo pačiu ir Aprašo 4 priedo II skyriaus ir 5 priedo lauko tyrimams keliamų reikalavimų, nes:

a) 5.3 priedėlio 7 psl. pateikti plėšriųjų ir sklandančių paukščių taškai, iš viso 6. Vadovaujantis Aprašo 4 priedo 3 p. nurodytu stebėjimo taškų parinkimo principu „<...> *Stebėjimo taškų skaičius ir vietos parenkami taip, kad būtų galima apžvelgti visą planuojamo ar esamo VE parko teritoriją, iš vieno taško paukščius patikimai stebėti iki 2–3 km atstumu. Jei teritorijoje yra apžvalgos lauką užstojančių kraštovaizdžio elementų, pasirenkama daugiau stebėjimo taškų mažesniu atstumu, užtikrinančiu visos VE ar jų parko teritorijos matomumą. Stebėjimo taškų vietos pasirenkamos, kad kuo geriau būtų matomos apylinkės*. <...>“, 4.3. pp. nurodyta tyrimų apimtimi „<...> *VE ar jų parkų teritorija ir jos aplinka (2 km nuo teritorijos) turi būti išžvalgyta ir nustatytos visos plėšriųjų paukščių lizdų vietos žiemos metu, arba, jei nėra tokios galimybės, lizdų, lizdaviečių paieška vykdoma po apskaitų nustačius lizdo vietą bet kuriuo metų laiku* <...>“, Aprašo 2 priede pateiktais reikšmingo neigiamo ir galimo reikšmingo neigiam poveikio atstumais, kuriuose privaloma taikyti reikšmingo neigiamo poveikio mažinimo priemones, suponuoja, kad VE jautrių paukščių rūšių lizdavietės turi būti žinomos iki 3,5 km atstumu nuo VE parko, nes būtent toks atstumas yra įvardijamas kaip galimai reikšmingas, VE parke pasirinkta per mažai paukščių stebėjimo taškų. Atsižvelgiant į Aprašo numatytus stebėjimo taškų principus VE parke turėjo būti parinkti dar mažiausiai 6 stebėjimo taškai, kad minimaliai būtų apžvelgta 2 km teritorija aplink VE parką, 4 – atsižvelgiant į planuojamas statyti VE (atsisakyta 13 VE statybos).

b) Per maža paukščių tyrimų apimtis laike. 5.3 priedėlio 6 psl. nurodoma, kad „Planuojamo VE parko teritorijoje ir apylinkėse paukščių ir šikšnosparnių tyrimai buvo atliekami apytiksliai 490 val.“. Tačiau, vadovaujantis Aprašo 4 priedo 4 p. pateikta paukščių tyrimų apimtimi laike, galime lengvai apsiskaičiuoti, kad 6 stebėjimo taškuose (6 taškai x 40 val. (40 val. pagal 4.1. pp. ir 9 val. pagal 4.3. pp.)) įskaičiuojant paukščių sankaupų tyrimus (minimalus tyrimų laikas 56 val.) turėtų būti 350 val., o minimalus šikšnosparnių tyrimų laikas 19 taškų (kaip nurodoma, kad buvo vykdoma) pagal Aprašo 5 priedo reikalavimus 202 val. (plačiau apie šikšnosparnių tyrimus punktuose žemiau). Taip pat dar turėtų būti skiriamo laiko VE parko teritorijoje perinčių paukščių rūšių, nepatenkančių į VE poveikiui jautrių rūšių sąrašą, apskaitoms ir VE jautrių paukščių rūšių lizdaviečių paieškoms, laikui ypač imlios pastarosios ir jų imtis priklauso nuo tinkamų buveinių ypač miškų kiekio PŪV teritorijoje, (nagrinėjama VE parko teritorija yra miškinga). Taigi, akivaizdu, kad skirtos 490 val. paukščių ir šikšnosparnių tyrimams neatitinka Aprašo 4 priedo reikalavimų.

c) 5.3 priedėlyje (toliau – Priedėlis) nėra pateikiama jokios detalesnės informacijos VE jautrių paukščių rūšių lizdaviečių ir perimviečių paiešką, pateikiama tik apibendrinta informacija „*Pasirinktuose taškuose buvo stebimi ir registruojami visi teritorijoje pastebėti plėšrieji paukščiai, juodieji gandrai, migruojantys paukščiai pasižymint jų skridimo aukščius, kryptis ir mitybos vietas*. <...> *Perinčių paukščių apskaitos buvo vykdomos apeinant ir apvažiuojant teritoriją, apžiūrint skirtingus biotopus ir stebint visas perinčių paukščių rūšis. Apskaitos vykdytos daugiausiai rytinėmis valandomis stengiantis aplankyti visas teritorijoje esančias buveines*“, t. y. nėra nurodoma ar kokia nors lizdaviečių paieška buvo vykdyta. Pirmoje, antroje ir šiuo metu nagrinėjamoje trečioje PAV ataskaitos versijoje pateiktose Tarnybai apie lizdavietes pateikta tik informacija, kuri yra Saugomų rūšių informacinėje sistemoje. Tiesa net ne visi SRIS sistemoje pateikti VE jautrių rūšių lizdai buvo pateikti PAV ataskaitoje, dėl to Tarnyba 2024-02-07 ir 2024-07-22 teikė PAV dokumentų rengėjui pastabas, kad reikia atsinaujinti SRIS duomenis ir pateiki PŪV vertinimą, pagal atnaujintą informaciją. Priedėlio 47 psl. nurodoma, kad „*2024 metų rugpjūčio mėn. buvo patikslinti SRIS sistemoje registruoti plėšriųjų paukščių lizdai ir pagal tai pakoreguotos poveikio mažinimo priemonės VE parke*“, taigi buvo tikrinami tik jau žinomi lizdai. Iš to suprantame, kad PAV dokumentų rengėjas ar jo pasitelkti konsultantai

nevykdė VE jautrių paukščių lizdaviečių paieškos privalomas pagal Aprašo 4 priedo 4.3. pp., o tik naudojosi SRIS duomenimis (duomenis pateikė ir stebėjimus atliko ne PAV dokumentų rengėjo pasitelktas konsultantas). SRIS duomenų naudojimas yra galimas ir netgi privalomas pagal PAV aprašo 1 priedo 93 p., tačiau SRIS informacija yra atsitiktinio pobūdžio, todėl nevykdant sistemingų tyrimų ir lizdaviečių paieškos, nėra užtikrinimo, kad teritorija ištirta pakankamai ir identifikuotis visos VE jautrių paukščių rūšių lizdavietės.

Nors PAV dokumentų rengėjas Rašte nurodo, kad „*Vadovaujantis LOD išvadomis ir atliktais ornitologiniais tyrimais verta paminėti, kad manome, jog nagrinėjamoje teritorijoje yra maksimalus galimas MER tankumas*“. Tačiau neatlikus sistemingų pakankamo detalumo (Aprašo 4 priedo reikalavimai) tyrimų negalima įvertinti tikrojo rūšių tankumo teritorijoje, dėl individualių teritorijų skirtumų, vienose teritorijose tankumas gali būti didesnis ar mažesnis liginant su vidutinėmis nustatytomis reikšmėmis.

d) Neįvertintas poveikis bevardžiame miške (apytikslės centro koordinatės: 6120060, 513733) SRIS duomenimis identifikuotai paprastai suopio lizdavietei nors palink šį mišką planuojamos 3 VE.

e) Priedelyje nurodoma, kad „*Besiveisiančių šikšnosparnių tyrimai buvo vykdomi, taikant metodus, kurie buvo taikyti, įgyvendinant 2009–2014 m. Europos ekonominės erdvės finansinio mechanizmo LT03 programos „Biologinė įvairovė ir ekosistemų funkcijos“ projektą „Vėjo energetikos plėtra ir biologinei įvairovei svarbios teritorijos“ (VENBIS).*“. šioje metodikoje veisimosi metu siūloma naudoti transektinį tyrimų metodą. Apie migracijos tyrimus nurodoma, taip: „*Migruojantys šikšnosparniai buvo registruojami tuose pačiuose taškuose, kaip ir per apskaitas veisimosi metu, tik kai kuriais atvejais (taškuose Nr. 4, 18, 19) jų įrašai buvo daromi ilgesni ir viename taške apėmė 60 min. laikotarpį (veisimosi metu įrašymo trukmė – 10 min.)*“. Taip pat nurodoma, kad tyrimai veisimosi ir migracijos metu buvo atlikti 19 taškų.

Visų pirma, pagal tai kaip pateikta informacija neįmanoma suprasti koks gi tyrimo metodas buvo naudojamas šikšnosparniui veisimosi metu. Tiktai iš rezultatų pateikimo galima numanyti, kad visgi buvo taikomas taškinis tyrimų metodas, nes rezultatai pateikti taškams, viename taške įrašą darant 10 min. Antra, nei iš metodikos aprašymų, nei iš rezultatų pateikimo būdo neįmanoma įvertinti tikslios tyrimų apimties laike migracijos metu. Priedėlio 5 psl. nurodomos tik dekados kuriomis buvo vykdomi tyrimai tačiau ne jų pakartojimų skaičius.

Vadovaujantis Aprašo 5 priedo 19.2. pp. šikšnosparnių migracijos tyrimai turi būti atliekami „*kas savaitę su ne trumpesne kaip 5 dienų pertrauka (iš viso – ne mažiau kaip 10 apskaitų)*”, viename taške įrašą darant ne trumpiau kaip valandą. Taigi pastaruoju aspektu šikšnosparnių migracijos tyrimai neatitinka Aprašo reikalavimų.

f) Šikšnosparnių migracijos tyrimų metu gauti šių aktyvumo rezultatai neperskaičiuoti pagal Aprašo 5 priedo 23 punkto reikalavimus.

g) Pagal Priedėlio 48 psl. informaciją VE13 planuojama mažesniu, nei 1 km atstumu nuo mažojo erelio rėksnio lizdo, jei siūloma priemonė „Įrengti paukščių išankstinio aptikimo - reagavimo sistemą“. Tačiau vadovaujantis Aprašo 2 priedo 1 lentele, tokiu atstumu nuo erelių lizdų tokia priemonė negalima, nes poveikis yra reikšmingai neigiamas ir VE tokiu atstumu neturėtų būti statomos.

h) Priedėlyje VE poveikis PŪV teritorijoje perinčioms VE jautrioms paukščių rūšims (mažasis erelis rėksnys, juodasis gandras, jūrinis erelis) neanalizuojamas pagal Aprašo 2 priedo 1 lentelės galimo reikšmingo neigiamo poveikio atstumus, kuris šioms rūšims yra 3,5 km atstumu.

i) 13 VE dėl galimo reikšmingo neigiamo poveikio paukščiams numatomos įrengti paukščių išankstinio aptikimo - reagavimo sistemas, o 9 VE numatomos įrengti automatiškai šikšnosparnius nustatančią ir kritiniu atveju VE veiklą stabdančią sistemas (2 registracijos per minutę). Vadovaujantis Aprašo 3 priedo IV skyriumi numatomos taikyti technologinėms prevencinės priemonės privalo atitikti šiame skyriuje nurodytus

reikalavimus. Siekiant įvertinti ar siūloma priemonė atitinka reikalavimus privaloma pateikti informaciją apie priemonės atitikimą reikalavimams. Reikalinga pateikti informacija pateikta Aprašo 3 priedo IV skyriuje (pvz.: Technologinė prevencijos priemonė turi būti sertifikuota ir (ar) ne mažiau kaip 1 metus naudojama paukščiams ir šikšnosparniams nuo žūties apsaugoti bent vienoje Europos Sąjungos ir (ar) Europos ekonominės erdvės šalyje; Praktiškai įvertintas ir patikrintas patikimumas, priemonės efektyvumas, aiški gaunama patikima duomenų amplitudė).

Atkreipiame dėmesį, kad 2025 m. pradžioje Prancūzijos tyrėjų paskelbtoje mokslinėje publikacijoje (https://doi.org/10.1002/we.2971) ir pagal šią sukurtoje skaičiuoklėje (https://shiny.cefe.cnrs.fr/en_eoldist/) nustatyti VE pristabdymo laikai ir apskaičiuoti atstumai, kaip toli reikia užfiksuoti paukštį, kad VE būtų spėtos pristabdyti iki šiems priskrendant VE, kuomet yra naudojamos automatinės paukščių fiksavimo ir VE pristabdymo sistemos (toliau – ATS). Nagrinėjant jūrinio erelio pavyzdį, su skaičiuoklėje maksimaliu VE menčių ilgiu 63 m, veisimosi sezono metu (esant 95 % skrydžių aptikimui, tokią ribą saugomoms rūšims rekomenduoja publikacijos autoriai). Skaičiuoklėje nurodoma, kad esant 5 m/s vėjo greičiui, VE iki 2 apsisukimų/min. sulėtėja per 29-39 sek. (priklausomai nuo VE tipo (sinchroninė, asinchroninė)), o reikalingas paukščio užfiksavimo atstumas 685-865 m (priklausomai nuo VE tipo). Esant 10 m/s vėjo greičiui, VE iki 2 apsisukimų/min. sulėtėja per 65-70 sek. (priklausomai nuo VE tipo (sinchroninė, asinchroninė)), o reikalingas paukščio užfiksavimo atstumas 1305-1375 m (priklausomai nuo VE tipo). Esant 15 m/s vėjo greičiui, VE iki 2 apsisukimų/min. sulėtėja per 101-102 sek. (priklausomai nuo VE tipo (sinchroninė, asinchroninė)), o reikalingas paukščio užfiksavimo atstumas 1915-1905 m (priklausomai nuo VE tipo). Greičiau skraidančioms rūšims reikalingas aptikimo atstumas didėja, pvz., mažajam ereliui rėksniui migracijos metu (deja, veisimosi metu įrankyje trūksta duomenų) priklausomai nuo vėjo greičio reikalingas užfiksavimo atstumas svyruoja nuo 735 iki 2065 m. Skaičiuoklėje nagrinėtos PŪV teritorijoje aptiktos rūšys: MER (tik migracijos metu), juodasis ir baltasis gandrai, paprastasis suopis. Publikacijoje taip pat nurodoma, kad lauko tyrimų metu yra nustatyta, kad net ant visų VE instaliuojant ATS, vis tiek yra fiksuojamas reikšmingas paukščių susidūrimų ir žūčių su VE skaičius, paukščių žūtys naudojant ATS nustatytos ir kitais tyrimais[4, 5].

Dėl aukščiau pateiktų priežasčių, Ataskaitoje pateiktų lauko tyrimų negalima laikyti pakankamos apimties ar patikimais, todėl pagal juos negalima patikimai įvertinti PŪV poveikio biologinei įvairovei, nepateikta privaloma informacija siūlomų poveikio mažinimo priemonių efektyvumui patvirtinti, dėl ko Ataskaita neatitinka Palnuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 4 str. 1 d.

3.2. **Motyvai dėl neatitikimo saugomų teritorijų ir saugomų gyvūnų rūšių ir laukinės gyvūnijos apsaugos teisės aktų reikalavimams:**

3.2.1. Vadovaujantis Saugomų teritorijų įstatymo 24 str. 10 d. „*Planai ir projektai, neskirti arba nebūtini buveinių apsaugai svarbiai teritorijai tvarkyti, bet galintys ją reikšmingai paveikti individualiai arba kartu su kitais planais ar projektais, turi būti vertinami dėl galimo poveikio teritorijai Planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatyme ar Vyriausybės tvirtinamame planų ir programų strateginio pasekmių aplinkai vertinimo tvarkos apraše nustatyta tvarka, atsižvelgiant į teritorijos apsaugos tikslus. Atsižvelgdamos į poveikio teritorijai vertinimą ir šio straipsnio 11 dalies nuostatas, valstybės ar savivaldybių institucijos ar įstaigos gali pritarti planui ar projektui tik įsitikinusios, kad planas ar projektas neigiamai nepaveiks nagrinėjamos teritorijos vientisumo, ir prireikus išsiaiškinusios visuomenės nuomonę*” (Ši nuostata yra perkelta iš 1992 m. gegužės 21 d. Tarybos Direktyvos 92/43/EEB dėl natūralių buveinių ir laukinės faunos bei floros apsaugos (toliau – Buveinių direktyva) 6 str. 3. d.) ir 14 d. „*Šio straipsnio*

[4] https://doi.org/10.1002/2688-8319.12173.
[5] https://doi.org/10.1016/j.gecco.2022.e02203

9, 10 ir 11 dalyse nustatyti apsaugos reikalavimai taikomi ir paukščių apsaugai svarbioms teritorijoms“.

PAST Labūnavos miškas apsaugos tikslai patvirtinti Lietuvos Respublikos aplinkos ministro 2014 m. kovo 14 d. įsakymu Nr. D1-281 „Dėl paukščių apsaugai svarbių teritorijų nustatymo“, juose nurodyta, kad „„*Natura 2000“ teritorijos artima aplinka laikomas plotas, esantis 2 km atstumu nuo paukščių apsaugai svarbios teritorijos ribos. Šiame plote siekiama išvengti maitinimosi buveinių praradimo ir (arba) blogėjimo, grėsmės individų mirtingumui*“. VE11 yra planuojama mažesniu nei 2 km atstumu nuo PAST, jai siūloma poveikio mažinimo priemonė ATS.

Europos komisijos (toliau – EK) pranešime „Planų ir projektų poveikio „Natura 2000“ teritorijoms vertinimas. Buveinių direktyvos 92/43/EEB 6 straipsnio 3 ir 4 dalių taikymo metodinės gairės“ (2021/C 437/01) EK pateikia išaiškinimą, kad „*Buveinių direktyva, kaip ir visi ES aplinkos apsaugos teisės aktai, yra pagrįsta atsargumo principu: **tai reiškia, kad tam tikro veiksmo reikšmingo neigiamo poveikio mokslinių įrodymų nebuvimas negali būti naudojamas kaip argumentas to veiksmo patvirtinimui pateisinti**. Taikant 6 straipsnio 3 dalies procedūrą, atsargumo principas reiškia, kad prieš leidžiant įgyvendinti planą arba projektą būtina įrodyti, kad nebus neigiamo poveikio „Natura 2000“ teritorijoms. **Kitaip tariant, jeigu nėra tikrumo dėl to, ar bus koks nors neigiamas poveikis, plano arba projekto patvirtinti negalima***.“. Buveinių direktyvos 6 straipsnio nuostatos yra perkeltos į Lietuvos Respublikos nacionalinę teisę (Saugomų teritorijų įstatymo 24 str. 8-14 d.), kaip tą įpareigoja padaryti Buveinių direktyvos 23 str. („1. *Valstybės narės priima įstatymus ir kitus teisės aktus, kurie, įsigalioję per dvejus metus nuo pranešimo apie šią direktyvą dienos, įgyvendina šią direktyvą. Apie tai jos nedelsdamos praneša Komisijai* [EK]“). Taigi Tarnybos nuomone EK pranešimai, kuriuose pateikiamos gairės, kaip teisingai įgyvendinti Buveinių direktyvos nuostatas yra aktualūs ir šios PŪV poveikio PAST vertinimo metu. Todėl remiantis šios Tarnybos išvados 3.1. punkte pateikta mokslinių publikacijų informacija, akivaizdu, kad ATS neužtikrina reikiamos apsaugos PAST saugomiems mažiesiems ereliams rėksniams. Kartu atkreipiame dėmesį, kad Aprašo 2 priedo 1 lentelėje, pateikta reikšmingo neigiamo poveikio priemonių schema mažiesiems ereliams rėksniams (nuo 1,5 km nuo PAST galima naudoti ATS) prieštarauja PAST Labūnavos miškas apsaugos tikslams, tuo pačiu Saugomų teritorijų įstatymo 24 str. 11 ir 14 d. bei Buveinių direktyvos 6 str. 3 d.

3.2.2. Vadovaujantis saugomų gyvūnų, augalų ir grybų rūšių įstatymo 8 str. 9 d. saugomų rūšių apsauga užtikrinama „*vertinant planuojamos ūkinės veiklos poveikio aplinkai projektus, atliekant planų ir programų strateginį pasekmių aplinkai vertinimą ir šių įvertinimų pagrindu ribojant ar draudžiant ūkinę ar kitokią veiklą, kuri gali daryti neigiamą poveikį saugomoms rūšims*“. Todėl dėl Ataskaitoje pateiktų nepakankamų ir nepatikimų lauko tyrimų duomenų Ataskaita taip pat neatitinka saugomų gyvūnų, augalų ir grybų rūšių įstatymo 8 str. nuostatų ir dėl to negalima užtikrinti saugomų rūšių apsaugos.

3.2.3. Nepateikiami privalomi įrodymai apie siūlomų reikšmingo neigiamo poveikio mažinimo priemonių paukščiams ir šikšnosparniams efektyvumą, kaip nurodyta Aprašo 3 priedo IV skyriuje (detali informacija pateikta šios išvados 3.1. pp., f) p.).

Dėl to, PAV ataskaita ir PŪV neatitinka Saugomų teritorijų 24 str. 10, 14 d. bei sukels reikšmingą neigiamą poveikį PAST Labūnavos miškas ir Saugomų augalų, gyvūnų ir grybų rūšių įstatymo 15 ir 17 str. bei Laukinės gyvūnijos įstatymo 28 str. nuostatų ir gali sukelti reikšmingą neigiamą poveikį VE jautrioms paukščių ir šikšnosparnių rūšims.

4. Alternatyva (-os), kuriai (-oms) pritariama ar nepritariama

Nepritariame ūkinės veiklos vystymo alternatyvai. Pritariame „0“ alternatyvai t. y. ūkinės veiklos nevykdymo alternatyvai.

5. Siūlomos nustatyti planuojamos ūkinės veiklos įgyvendinimo sąlygos, susijusios su atliktu poveikio aplinkai vertinimu (nurodoma, jeigu tokias sąlygas reikia ir galima nustatyti pagal teisės aktų reikalavimus):

5.1. iki veiklos vykdymo pradžios - ;
5.2. statybos etape - ;
5.3. veiklos vykdymo etape - ;
5.4. veiklos nutraukimo etape - .

6. Nuomonė dėl vertinimo metodų, rezultatų, ataskaitos kokybės

Planuojamos ūkinės veiklos ataskaitos kokybei nepritariame:

- Ataskaitoje pateikti lauko tyrimai neatitinka PAV aprašo 1 priedo 93 ir 96 p. reikalavimų ir Aprašo 4 ir 5 prieduose pateiktų tyrimų reikalavimų;
- Priedėlyje, kuris vienintelis Tarnybai buvo pateiktas vertinimui su Raštu, nepateiktas PŪV poveikio vertinimas PAST Labūnavos miškas, po atliktų pakeitimų;
- Keturios VE numatomos perkelti į naujas vietas, tačiau informacija apie naujas VE vietas apsiriboja, tik naujų vietų koordinačių pateikimu, perkėlimas neatvaizduojamas žemėlapiuose, neanalizuojama, kaip VE perkėlimas paveiks reikšmingo neigiamo poveikio vertinimą, šią analizę, norint įsitikinti, kad nebus reikšmingo neigiamo poveikio, reikia atliki pačiam PAV subjektui, nors tai yra PAV dokumentų rengėjo užduotis;
- Vertinant planuojamų VE poveikį PŪV teritorijoje perinčioms VE jautrių paukščių rūšims, poveikis nevertinamas pagal Aprašo 2 priedo 1 lentelėje pateiktus atstumus;
- PŪV teritorijoje vykdytų tyrimų aprašymas nepakankamas, kad būtų galima įvertinti ar atlikti tyrimai atitinka Aprašo 4 ir 5 priedo reikalavimus;
- Į SRIS nepateikti PŪV teritorijoje tyrimų metu registruotų saugomų rūšių duomenys (pvz. paprastosios griežlės stebėjimai), nors tai privaloma pagal Aprašo 17 p;

Teisės aktai, rekomendacijos mokslinės publikacijos, kuriais remtasi vertinant ataskaitą pateikti šios išvados 3 punkte.

7. **Siūlomos nustatyti priemonės galimam reikšmingam neigiamam poveikiui aplinkai išvengti, jį sumažinti, kompensuoti, atkurti tai, kas pažeista**:

7.1. iki veiklos vykdymo pradžios: - ;
7.2. statybos etape: - ;
7.3. veiklos vykdymo etape: - ;
7.4. veiklos nutraukimo etape - .

Vadovaujantis Lietuvos Respublikos viešojo administravimo įstatymo 14 straipsniu, šis atsakymas per vieną mėnesį nuo jo gavimo dienos pasirinktinai gali būti skundžiamas Valstybinei saugomų teritorijų tarnybai prie Aplinkos ministerijos (Antakalnio g. 25, 10312 Vilnius) arba Lietuvos administracinių ginčų komisijai (A. Goštauto g. 12-100, 01108 Vilnius) Lietuvos Respublikos ikiteisminio administracinių ginčų nagrinėjimo tvarkos įstatymo nustatyta tvarka arba Regionų administraciniam teismui (Vilniaus rūmai, Žygimantų g. 2, 01102 Vilnius; Kauno rūmai, A. Mickevičiaus g. 8A, 44312 Kaunas; Klaipėdos rūmai, Galinio Pylimo g. 9, 91230 Klaipėda; Šiaulių rūmai, Dvaro g. 80, 76298 Šiauliai; Panevėžio rūmai, Respublikos g. 62, 35158 Panevėžys, arba per Lietuvos teismų elektroninių paslaugų portalą https://e.teismas.lt) Lietuvos Respublikos administracinių bylų teisenos įstatymo nustatyta tvarka.

Informuojame, kad kreipiantis raštu į Valstybinę saugomų teritorijų tarnybą su paklausimu, prašymu arba skundu, Jūs pateikiate savo asmens duomenis. Susipažinti kaip tvarkomi Jūsų asmens duomenys galite internetinės svetainės https://vstt.lrv.lt/lt/ skiltyje Asmens duomenų apsauga-Privatumo pranešimas (skirtas fiziniams asmenims, kurie kreipiasi raštu į Valstybinę saugomų teritorijų tarnybą prie Aplinkos ministerijos su paklausimu, prašymu arba skundu).

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos 188724381, Antakalnio g. 25, LT-10312 Vilnius
Dokumento pavadinimas (antraštė)	IŠVADA DĖL UAB „IGNITIS RENEWABLES PROJKETAI“ PLANUOJAMO IKI 25 VĖJO ELEKTRINIŲ PARKO ĮRENGIMO IR EKSPLOATACIJOS JONAVOS R. SAV. POVEIKIO APLINKAI VERTINIMO ATASKAITOS IR POVEIKIO APLINKAI
Dokumento registracijos data ir numeris	2025-04-03 Nr. V3-548
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2025-04-03 18:34:12 (GMT+03:00)
Parašo formatas	XAdES-T
Laiko žymoje nurodytas laikas	2025-04-03 18:34:28 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016, AS Sertifitseerimiskeskus EE
Sertifikato galiojimo laikas	2023-01-16 08:44:15 – 2028-01-15 23:59:59
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2022-05-19 16:48:06 iki 2025-05-18 16:48:06
Pagrindinio dokumento priedų skaičius	–
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.80.3
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2025-04-03 19:54:07)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2025-04-03 19:54:07 DBSIS

JONAVOS RAJONO SAVIVALDYBĖS MERAS

Biudžetinė įstaiga, Ž g. 13, 55158 Jonava,
telefonas (+370 349) 50154, el. paštas administracija@jonava.lt.
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188769070

Aplinkos apsaugos agentūrai
el. p. aaa@gamta.lt

2025-09- Nr. 6B-22-

Į 2025-09-26 Nr. (30-2)-A4E-9752

DĖL NUSTATYTOS FORMOS IŠVADOS PATEIKIMO UAB „IGNITIS RENEWABLES PROJEKTAI“ PLANUOJAMOS ŪKINĖS VEIKLOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS: VĖJO ELEKTRINIŲ PARKO (KULVOS SEN. IR ŽEIMIŲ SEN., JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS

Jonavos rajono savivaldybė (toliau – Savivaldybė) 2025 m. rugsėjo 26 d. gavo Aplinkos apsaugos agentūros raštą Nr. (30-2)-A4E-9752 „Dėl poveikio aplinkai vertinimo ataskaitos“ (toliau – raštas). Raštu prašoma pateikti motyvuotas išvadas dėl Vėjo elektrinių parko (Žeimių ir Kulvos sen.) įrengimo ir eksploatacijos (planuojamos ūkinės veiklos organizatorius – UAB „Ignitis renewables projektai, įm. k. 305916135) poveikio aplinkai vertinimo ataskaitos ir planuojamos ūkinės veiklos poveikio aplinkai, pagal Lietuvos Respublikos aplinkos ministro 2023 m. gegužės 23 d. įsakymu Nr. D1-157 patvirtinto „Planuojamos ūkinės veiklos poveikio aplinkai vertinimo procedūrų vykdymo tvarkos aprašo“ (toliau – Tvarkos aprašas) nustatytą formą.

Savivaldybė, vadovaudamasi Tvarkos aprašo 40 punktu, teikia užpildytą Tvarkos aprašo 2 priedą „Išvada dėl UAB „Ignitis renewables projektai“ planuojamos ūkinės veiklos Jonavos r. sav., Kulvos sen., Žeimių sen. administruojamoje teritorijoje – vėjo elektrinių parko įrengimo ir eksploatacijos Jonavos rajono savivaldybėje poveikio aplinkai vertinimo ataskaitos ir poveikio aplinkai“.

Šis atsakymas per vieną mėnesį nuo jo priėmimo dienos gali būti skundžiamas Lietuvos Respublikos administracinių bylų teisenos įstatymo nustatyta tvarka Lietuvos administracinių ginčų komisijos Kauno apygardos skyriui (Laisvės al. 36, Kaunas) arba Regionų administraciniam teismui bet kuriuose teismo rūmuose (Šiaulių rūmai, Dvaro g. 80, Šiauliai; Panevėžio rūmai, Respublikos g. 62, Panevėžys; Klaipėdos rūmai, Galinio Pylimo g. 9, Klaipėda; Kauno rūmai, A. Mickevičiaus g. 8A, Kaunas, Vilniaus rūmai, Žygimantų g. 2, Vilnius).

PRIDEDAMA: Tvarkos aprašo 2 priedas, 2 lapai.

Planuojamos ūkinės veiklos poveikio aplinkai vertinimo procedūrų vykdymo tvarkos aprašo
2 priedas

IŠVADA DĖL UAB „IGNITIS RENEWABLES PROJEKTAI“ PLANUOJAMOS ŪKINĖS VEIKLOS JONAVOS R. SAV., KULVOS SEN., ŽEIMIŲ SEN. ADMINISTRUOJAMOJE TERITORIJOJE – VĖJO ELEKTRINIŲ PARKO ĮRENGIMO IR EKSPLOATACIJOS JONAVOS RAJONO SAVIVALDYBĖJE POVEIKIO APLINKAI VERTINIMO ATASKAITOS IR POVEIKIO APLINKAI

1. Planuojamos ūkinės veiklos pavadinimas: vėjo elektrinių parko įrengimo ir eksploatacijos Jonavos r. sav., Kulvos sen., Žeimių sen. administruojamoje teritorijoje.
2. Išvados dėl planuojamos ūkinės veiklos poveikio aplinkai pobūdis – pritariama.
3. Motyvai dėl pritarimo ar nepritarimo planuojamai ūkinei veiklai: vadovaujantis Lietuvos Respublikos vietos savivaldos įstatymo 6 straipsnio nuostatomis, nurodančiomis, kad aplinkos kokybės gerinimas ir apsauga bei teritorijų planavimas, savivaldybės bendrojo plano ar savivaldybės dalių bendrųjų planų ir detaliųjų planų sprendinių įgyvendinimas pripažįstamos savarankiškosiomis savivaldybių funkcijomis bei Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 6 straipsnio 5 dalyje nurodytomis funkcijomis ir 11 straipsnio 5 punktu ir 7 punktu, teikia išvadą, kad pritaria poveikio aplinkai vertinimo ataskaitai.
(atsižvelgiant į aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus ir pateikiant nuorodas į juos).

4. Alternatyva (-os), kuriai (-oms) pritariama ar nepritariama.
Alternatyva Nr. 1.
(nurodoma, jeigu ataskaitoje nagrinėtos alternatyvos)

5. Siūlomos nustatyti planuojamos ūkinės veiklos įgyvendinimo sąlygos, susijusios su atliktu poveikio aplinkai vertinimu (nurodoma, jeigu tokias sąlygas reikia ir galima nustatyti pagal teisės aktų reikalavimus):
5.1. iki veiklos vykdymo pradžios_____;
5.2. statybos etape_____;
5.3. veiklos vykdymo etape_____;
5.4. veiklos nutraukimo etape_____.

6. Nuomonė dėl vertinimo metodų, rezultatų, ataskaitos kokybės
_____.
(pagrindžiama teisės aktų ar tarptautinių standartų reikalavimais, moksline literatūra)

7. Siūlomos nustatyti priemonės galimam reikšmingam neigiamam poveikiui aplinkai išvengti, jį sumažinti, kompensuoti, atkurti tai, kas pažeista:
7.1. iki veiklos vykdymo pradžios_____;
7.2. statybos etape_____;
7.3. veiklos vykdymo etape_____;
7.4. veiklos nutraukimo etape_____.
8. Informacija apie poveikio aplinkai vertinimo metu nustatytą sanitarinės apsaugos zoną – pritariama ar nepritariama (ko nereikia, ištrinama. Pildo tik sveikatos apsaugos ministro įgaliota institucija).

(Išvada teikiama pagal Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 6 straipsnio 5 dalyje nurodytą kompetenciją: 1) sveikatos apsaugos ministro įgaliotos institucijos – dėl planuojamos ūkinės veiklos veiksnių, darančių įtaką visuomenės sveikatai, galimo poveikio visuomenės sveikatai; 2) kultūros ministro įgaliotos institucijos, atsakingos už kultūros vertybių apsaugą, – nekilnojamojo kultūros paveldo apsaugos srityje dėl galimo planuojamos ūkinės veiklos poveikio nekilnojamajam kultūros paveldui; 3) vidaus reikalų ministro įgaliotos institucijos, atsakingos už gaisrinę ir civilinę saugą, – dėl planuojamos ūkinės veiklos vykdymo metu galimų įvykių,

ekstremaliųjų įvykių, ekstremaliųjų situacijų, numatomų priemonių joms išvengti ar sušvelninti ir padariniams likviduoti; 4) aplinkos ministro įgaliotos saugomų teritorijų institucijos – dėl planuojamos ūkinės veiklos įgyvendinimo poveikio valstybės saugomoms teritorijoms, įskaitant Europos ekologinio tinklo „Natura 2000“ teritorijas; Vyriausybės tvirtinamame Lietuvos Respublikos teritorijos bendrajame plane apibrėžtoms ypač saugomo kraštovaizdžio teritorijoms ir ypač raiškiems kraštovaizdžio kompleksams; saugomų rūšių radavietėms ar augavietėms; 5) savivaldybės vykdomoji institucija – dėl planuojamos ūkinės veiklos poveikio aplinkai vertinimo ir šios veiklos galimo poveikio aplinkai, atsižvelgdama į patvirtintų ir galiojančių teritorijų planavimo dokumentų sprendinius, galimybes pagal teritorijų planavimą reglamentuojančių teisės aktų reikalavimus juos keisti, galimą poveikį savivaldybės įsteigtoms saugomoms teritorijoms ir pagal Lietuvos Respublikos aplinkos monitoringo įstatymą vykdomos savivaldybės aplinkos stebėsenos (monitoringo) duomenis. Kiti anksčiau nenurodyti PAV subjektai išvadas teikia pagal jiems įstatymuose nustatytą kompetenciją.)

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Jonavos rajono savivaldybės administracija 188769070, Žeimių g. 13, LT-55158 Jonava
Dokumento pavadinimas (antraštė)	DĖL NUSTATYTOS FORMOS IŠVADOS PATEIKIMO UAB „IGNITIS RENEWABLES PROJEKTAI“ PLANUOJAMOS ŪKINĖS VEIKLOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS: VĖJO ELEKTRINIŲ PARKO (KULVOS SEN. IR ŽEIMIŲ SEN., JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS
Dokumento registracijos data ir numeris	2025-10-01 Nr. 6B-22-5213
Dokumento gavimo data ir dokumento gavimo registracijos numeris	2025-10-01 Nr. A3-6966
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2025-10-01 13:50:18 (GMT+03:00)
Parašo formatas	XAdES-X-L
Laiko žymoje nurodytas laikas	2025-10-01 15:41:35 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016, AS Sertifitseerimiskeskus EE
Sertifikato galiojimo laikas	2024-02-09 10:40:34 – 2029-02-07 23:59:59
Parašo paskirtis	Registravimas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2025-10-01 14:36:55 (GMT+03:00)
Parašo formatas	XAdES-EPES
Laiko žymoje nurodytas laikas	–
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016, AS Sertifitseerimiskeskus EE
Sertifikato galiojimo laikas	2021-09-06 10:23:35 – 2026-09-05 23:59:59
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Gauto dokumento registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA-2, VI Registru Centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2025-05-16 11:31:08 iki 2028-05-15 11:31:08
Pagrindinio dokumento priedų skaičius	1
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	Elpako v.20250923.1
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2025-10-07 12:43:03)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2025-10-07 12:43:03 DBSIS

**NACIONALINIO VISUOMENĖS SVEIKATOS CENTRO
PRIE SVEIKATOS APSAUGOS MINISTERIJOS
KAUNO DEPARTAMENTAS**

Biudžetinė įstaiga, Kalvarijų g. 153, LT-08352 Vilnius.
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 291349070.
Departamento duomenys: K. Petrausko g. 24, LT-44156 Kaunas, tel. (8 37) 33 16 88, faks. (8 37) 33 16 80,
el. p. kaunas@nvsc.lt

UAB „Infraplanas“ 2024-03- Nr. (2-11 14.3.3 Mr)2-
El. p. info@infraplanas.lt Į 2024-02-26 Nr. S-2024-45

IŠVADA DĖL VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS IR POVEIKIO APLINKAI

1. **Planuojamos ūkinės veiklos pavadinimas:** Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaita.
2. **Išvados dėl planuojamos ūkinės veiklos poveikio aplinkai pobūdis** – pritariama.
3. **Motyvai dėl pritarimo ar nepritarimo planuojamai ūkinei veiklai**.

Planuojamų vėjo elektrinių (toliau – VE) statybos metu galimas laikinas lokalizuotas oro taršos padidėjimas, dėl kurą naudojančios technikos skirtos VE transportavimui, statymui, žemės darbams naudojimo VE statymo vietoje. Reikšmingo poveikio aplinkos oro kokybei ši tarša neturės, nes ji bus trumpalaikė ir išsiskirs tik darbų vykdymo metu. Planuojamos ūkinės veiklos (toliau – PŪV) objektų veiklos metu neigiamas poveikis aplinkos orui nenumatomas. PŪV eksploatacijos metu jokie teršalai į aplinką neišsiskirs. Vėjo energija yra viena iš ekologiškiausių atsinaujinančių energijos rūšių, padedanti mažinti iškastinio kuro naudojimą, todėl prognozuojamas teigiamas netiesioginis poveikis aplinkos oro kokybei.

Atlikus PŪV triukšmo sklaidos modeliavimą nustatyta, kad PŪV sukeliamas triukšmo lygis artimiausioje gyvenamosios ir visuomeninės paskirties pastatų aplinkoje dienos, vakaro ir nakties metu neviršys leidžiamų triukšmo ribinių dydžių, reglamentuojamų ūkinės veiklos objektams pagal HN 33:2011 „Triukšmo ribiniai dydžiai gyvenamuosiuose ir visuomeninės paskirties pastatuose bei jų aplinkoje“ (toliau – HN 33:2011).

Rotoriaus sukimosi vibracija yra reguliuojama pagal DIN ISO 1940-1 standartą. Vibracijos sklidimo greitis nuo vienos VE siekia apie 10-5 mm/s per 1 km. Vibracijos greitis nuo 10 VE siekia apie 10-4 mm/s. Teigiama, kad 100 m nuo artimiausios VE vibracija yra 10 kartų mažesnė negu rekomenduojama pastatams, kuriuose vibracija yra nepageidaujama (pvz. tikslių matavimų laboratorijoms). Nurodoma, jog VE sukeliama vibracija yra ypač silpna ir poveikio artimiausiems gyventojams neturi bei neviršija Lietuvos higienos normos HN 50:2016 „Visą žmogaus kūną veikianti vibracija: Didžiausi leidžiami dydžiai ir matavimo reikalavimai gyvenamosiose, specialiosiose ir visuomeninėse patalpose“.

Nurodoma, jog iš užsienyje ir Lietuvoje atliktų matavimų rezultatų nustatyta, kad VE keliamo infragarso lygis bus žymiai mažesnis nei ribiniai ar girdimumo lygiai pagal Lietuvos higienos normos HN 30:2009 „Infragarsas ir žemo dažnio garsai: ribiniai dydžiai gyvenamuosiuose ir visuomeninės paskirties pastatuose“ (toliau – HN 30:2009) reikalavimus, todėl jis neigiamo poveikio žmonių sveikatai nekels.

Elektromagnetinio lauko (toliau – EML) elektrinio lauko stipris, kuris kinta pagal kubinę atstumo priklausomybę, neviršys HN 104:2011 „Gyventojų sauga nuo elektros linijų sukuriamo elektromagnetinio lauko“ (toliau – HN 104:2011) leistinos normos – 1 kV/m ir nesieks

gyvenamosios ir visuomeninės paskirties pastatų patalpose reglamentuojamų verčių – 0,5 kV/m. EML įtakos zona nei VE teritorijoje, nei gretimose teritorijose sukuriama nebus.

Artimiausiems namams šešėliavimo poveikis nuo planuojamų VE pasireikš 2:00 – 37:00 val. per metus (realiu galimu scenarijumi). Veiklos vykdytojas savo planuojamose VE įdiegs šešėliavimo mažinimo kompiuterinę programą (shadow shut-down) į 11, 12 ir 22, planuojamas VE, kuri stabdys VE tuo metu, kada šešėlių tikimybė didžiausia. Planuojamos VE bus stabdomos 16 – 62 val. per metus. Stabdymo periodai ir stabdymo trukmė, nustatyti atsižvelgus į didžiausią poveikį galintį daryti VE modelį. Įvertinus foninių ir planuojamų jėgainių veiklą, taikant šešėliavimo mažinimo priemones, reikšmingas neigiamas poveikis gyventojams nenustatytas.

4. **Alternatyva (-os), kuriai (-oms) pritariama ar nepritariama**.

Pritariama alternatyvai Nr. I.

5. **Siūlomos nustatyti planuojamos ūkinės veiklos įgyvendinimo sąlygos, susijusios su atliktu poveikio aplinkai vertinimu (nurodoma, jeigu tokias sąlygas reikia ir galima nustatyti pagal teisės aktų reikalavimus):**

5.1. **iki veiklos vykdymo pradžios**_____;

5.2. **statybos etape**_____;

5.3. **veiklos vykdymo etape**_____;

5.4. **veiklos nutraukimo etape**_____.

6. **Nuomonė dėl vertinimo metodų, rezultatų, ataskaitos kokybės**.

Lietuvos teisinėje bazėje šešėliavimo, kaip aplinkos veiksnio, įtaka žmogaus sveikatai nereglamentuojama, todėl vertinant šešėlius, paprastai vadovaujamasi pasauline praktika. Šešėlių mirgėjimo skaičiavimai atlikti kompiuterine programa WindPRO 3.6 pagal realų scenarijų (mirgėjimas ribojamas 30 val./metus).

Triukšmo sklaidos skaičiavimai atlikti programa WindPRO (versija 3.6). Vertintas suminis triukšmas nuo visų esamų ir planuojamų VE triukšmo šaltinių. Gauti triukšmo lygių rezultatai palyginti su higienos normoje HN 33:2011 nustatytomis didžiausiomis triukšmo ribinėmis vertėmis.

Vertinant vibracijos poveikį nurodoma, jog planuojamų VE besisukančių ir kitų dalių skleidžiama vibracija yra per silpna, kad turėtų neigiamą poveikį artimiausiai gyvenamajai/visuomeninei aplinkai ir neatitiktų Lietuvos higienos normos HN 50:2016 „Visą žmogaus kūną veikianti vibracija: Didžiausi leidžiami dydžiai ir matavimo reikalavimai gyvenamosiose, specialiosiose ir visuomeninėse patalpose“ reikalavimų.

Vertinant infragarso žemo dažnio garso poveikį išanalizuota užsienyje ir Lietuvoje atliktų matavimų rezultatai bei įvertinta, jog VE keliamo infragarso lygis bus žymiai mažesnis nei ribiniai ar girdimumo lygiai pagal HN 30:2009, todėl jis neigiamo poveikio žmonių sveikatai nekels.

Elektromagnetinės spinduliuotės vertinimas parengtas vadovaujantis metodinėmis rekomendacijomis, moksliniais straipsniais, gerąja praktika Lietuvoje, rezultatai lyginti su HN 104:2011.

7. **Siūlomos nustatyti priemonės galimam reikšmingam neigiamam poveikiui aplinkai išvengti, jį sumažinti, kompensuoti, atkurti tai, kas pažeista:**

7.1. **iki veiklos vykdymo pradžios** – nenumatoma.

7.2. **statybos etape** – nenumatoma.

7.3. **veiklos vykdymo etape** – šešėliavimo mažinimo kompiuterinė programa (shadow shut-down) įdiegiama į 11, 12 ir 22 planuojamas VE, kuri stabdys VE tuo metu, kada šešėlių tikimybė didžiausia. Planuojamos VE bus stabdomos 16 – 62 val. per metus.

7.4. **veiklos nutraukimo etape** – nenumatoma.

8. **Informacija apie poveikio aplinkai vertinimo metu nustatytą sanitarinės apsaugos zoną –** vadovaujantis teisės aktais planuojamai ūkinei veiklai sanitarinės apsaugos zonos dydis nereglamentuojamas.

Informuojame, kad šis sprendimas (atsakymas) per vieną mėnesį nuo jo įteikimo dienos gali būti skundžiamas (pasirinktinai): vadovaujantis Lietuvos Respublikos viešojo administravimo įstatymo 14 straipsniu Nacionaliniam visuomenės sveikatos centrui (Kalvarijų g. 153, 08352 Vilnius); Lietuvos Respublikos ikiteisminio administracinių ginčų nagrinėjimo tvarkos įstatymo nustatyta tvarka Lietuvos administracinių ginčų komisijos Kauno apygardos skyriui (Laisvės al. 36, 44240 Kaunas); Lietuvos Respublikos administracinių bylų teisenos įstatymo nustatyta tvarka

Regionų administraciniam teismui (Žygimantų g. 2, 01102 Vilnius; Lietuvos teismų elektroninių paslaugų portale e.teismas.lt).

Dėl pareigūnų piktnaudžiavimo, biurokratizmo ar kitaip pažeidžiamų žmogaus teisių ir laisvių viešojo administravimo srityje per vienerius metus nuo skundžiamų veiksmų padarymo ar skundžiamo sprendimo priėmimo turite teisę pateikti skundą Lietuvos Respublikos Seimo kontrolieriui (Gedimino pr. 56, 01110 Vilnius) Lietuvos Respublikos Seimo kontrolierių įstatymo nustatyta tvarka.

ISO 9001
BUREAU VERITAS
Certification
UKAS
MANAGEMENT
SYSTEMS

Suformuota: 2024 m. kovo 8 d. 12:32

Suformavo: Dokumentų valdymo ir konsultavimo skyriaus visuomenės sveikatos

Siunčiamasis dokumentas

Registracijos duomenys	
Paslaugos sprendimo tipas	Teigiamas sprendimas
Skyriaus indeksas	Kauno departamento Visuomenės sveikatos saugos skyrius
Būsena	Registruota
Registracijos data	2024-03-08
Registracijos numeris	(2-11 14.3.3 Mr)2-8866
Registras	2: Siunčiamų dokumentų registras
Byla	2024: 14.3.3 Mr: Poveikio aplinkai vertinimo ataskaitų derinimo dokumentai (prašymai, išvados)
Bylos forma	Mišri byla
Procesas	templ.snakeProcess.default
Registratorius	Dokumentų valdymo ir konsultavimo skyriaus visuomenės sveikatos
Elektroninis dokumentas	Taip
Elektroninio dokumento formatas	ADOC-V1.0
Dokumento informacija	
Siuntėjai	Kauno departamentas
Gavėjai	UAB INFRAPLANAS, Inovacijų g. 3, Biruliškių k., LT-54469 Kauno r., info@infraplanas.lt
Gavėjas (pristatymo būdas)	UAB INFRAPLANAS, Inovacijų g. 3, Biruliškių k., LT-54469 Kauno r., info@infraplanas.lt
Dokumentą parengė	
Dokumentą pasirašė	
Dokumentą tvirtino	
Dokumentą vizavo	
Dokumentą derino	
Antraštė	IŠVADA DĖL VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS IR POVEIKIO APLINKAI
Planuojamos ūkinės veiklos pavadinimas	Vėjo elektrinių parkas
Planuojamos ūkinės veiklos adresas	Jonavos r. sav.
Poveikio aplinkai vertinimo programos/ataskaitos rengėjo duomenys (Juridinio asmens pavadinimas / fizinio asmens vardas pavardė, kodas, adresas, telefono Nr., el. paštas)	Tel.: 8-621-66746 el. p.: info@infraplanas.lt
Dokumento rūšis	PAV išvados dėl ataskaitos
Visi dokumentai gauti	
Pritarta/nepritarta programai/ataskaitai	Pritarta
Motyvuoti reikalavimai papildyti ar pataisyti programą/ataskaitą	
Gauto dokumento data (siuntėjo data)	2024-02-26
Gauto dokumento numeris (siuntėjo numeris)	S-2024-45
Susieti dokumentai	
Elektroninė paslauga (1)	

16542879	2024-02-27	Įvykdyta	2024-03-08

ADOC		
PAV+ataskaita+2024-03+pritarta.adoc		
PAV+ataskaita+2024-03+pritarta.docx		
Priedai		
Pridedami dokumentai		
Pasibaigę darbai		
	2024-03-08 09:20:58	Teigiamai vizuota versija 5.0. Pastabos:
	2024-03-08 10:00:11	Teigiamai vizuota versija 5.0. Pastabos:
	2024-03-08 10:22:44	Teigiamai vizuota versija 5.0. Pastabos:
	2024-03-08 10:25:37	Teigiamai vizuota versija 5.0. Pastabos:
	2024-03-08 12:29:53	Pasirašyta versija 5.0. Pastabos:
	2024-03-08 12:31:59	Registruotas dokumentas: 2: Siunčiamų dokumentų registras 2024: 14.3.3 Mr: Poveikio aplinkai vertinimo ataskaitų derinimo dokumentai (prašymai, išvados)

KĖDAINIŲ RAJONO SAVIVALDYBĖS ADMINISTRACIJA

Biudžetinė įstaiga, J. Basanavičiaus g. 36, 57288 Kėdainiai, tel. +370 347 69 550,
el. p. administracija@kedainiai.lt. Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188768545,
E. pristatymo dėžutės adresas 188768545

UAB „Infraplanas“
el. p. info@infraplanas.lt

Nr.
Į 2025-08-11 Nr. S-2025-122

DĖL POVEIKIO APLINKAI VERTINIMO IŠVADOS

Atsakydami į Jūsų 2025 m. rugpjūčio 11 d. raštą Nr. S-2025-122 „Dėl vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaitos išvadų“ (gavimo data 2025 m. rugpjūčio 11 d., registracijos Nr. AG-7415) teikiame išvadą dėl UAB „Ignitis renewables projektai“ planuojamos ūkinės veiklos – vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos – poveikio aplinkai vertinimo (toliau – Išvada).

Pažymime, kad Išvada teikiama vadovaujantis Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 11 straipsnio 5 dalimi ir Planuojamos ūkinės veiklos poveikio aplinkai vertinimo procedūrų vykdymo tvarkos aprašo, patvirtinto Lietuvos Respublikos aplinkos ministro 2023 m. gegužės 23 d. įsakymu Nr. D1-157 „Dėl Lietuvos Respublikos aplinkos ministro 2017 m. spalio 31 d. įsakymo Nr. D1-885 „Dėl Planuojamos ūkinės veiklos poveikio aplinkai vertinimo tvarkos aprašo patvirtinimo“ pakeitimo“, 40 punkto nuostatomis.

PRIDEDAMA. Išvada, 2 lapai.

Planuojamos ūkinės veiklos poveikio aplinkai vertinimo procedūrų vykdymo tvarkos aprašo
2 priedas

(Išvados dėl poveikio aplinkai forma)

IŠVADA DĖL VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR
(planuojamos ūkinės veiklos pavadinimas)
EKSPLOATACIJOS POVEIKIO APLINKAI

VERTINIMO ATASKAITOS IR POVEIKIO APLINKAI

1. Planuojamos ūkinės veiklos pavadinimas: vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija.
2. Išvados dėl planuojamos ūkinės veiklos poveikio aplinkai pobūdis – pritariama.
3. Motyvai dėl pritarimo ar nepritarimo planuojamai ūkinei veiklai
- atsižvelgta į Kėdainių rajono savivaldybės teritorijos bendrąjį planą, patvirtintą Kėdainių rajono savivaldybės tarybos 2022 m. spalio 28 d. sprendimu Nr. TS-272 „Dėl Kėdainių rajono savivaldybės teritorijos bendrojo plano koregavimo tvirtinimo“;
- atsižvelgta į vykdomo aplinkos monitoringo rezultatus pagal Kėdainių rajono savivaldybės 2025–2030 metų aplinkos monitoringo programą, patvirtintą Kėdainių rajono savivaldybės tarybos 2024 m. gruodžio 20 d. sprendimu Nr. TS-403 „Dėl Kėdainių rajono savivaldybės 2025–2030 metų aplinkos monitoringo programos tvirtinimo“;
- atsižvelgta į galimą poveikį Kėdainių rajono savivaldybės įsteigtoms saugomoms teritorijoms.

(atsižvelgiant į aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus ir pateikiant nuorodas į juos).

4. Alternatyva (-os), kuriai (-oms) pritariama ar nepritariama.
_____ 1-a alternatyva _____.
(nurodoma, jeigu ataskaitoje nagrinėtos alternatyvos)

5. Siūlomos nustatyti planuojamos ūkinės veiklos įgyvendinimo sąlygos, susijusios su atliktu poveikio aplinkai vertinimu (nurodoma, jeigu tokias sąlygas reikia ir galima nustatyti pagal teisės aktų reikalavimus):
5.1. iki veiklos vykdymo pradžios _____ – _____;
5.2. statybos etape _____ – _____;
5.3. veiklos vykdymo etape _____ – _____;
5.4. veiklos nutraukimo etape _____ – _____.

6. Nuomonė dėl vertinimo metodų, rezultatų, ataskaitos kokybės
_____ – _____.
(pagrindžiama teisės aktų ar tarptautinių standartų reikalavimais, moksline literatūra)

7. Siūlomos nustatyti priemonės galimam reikšmingam neigiamam poveikiui aplinkai išvengti, jį sumažinti, kompensuoti, atkurti tai, kas pažeista:
7.1. iki veiklos vykdymo pradžios _____ – _____;
7.2. statybos etape _____ – _____;
7.3. veiklos vykdymo etape _____ – _____;
7.4. veiklos nutraukimo etape _____ – _____.
8. Informacija apie poveikio aplinkai vertinimo metu nustatytą sanitarinės apsaugos zoną – pritariama ar nepritariama (ko nereikia, ištrinama. Pildo tik sveikatos apsaugos ministro įgaliota institucija).

(Išvada teikiama pagal Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 6 straipsnio 5 dalyje nurodytą kompetenciją: 1) sveikatos apsaugos ministro įgaliotos institucijos – dėl planuojamos ūkinės veiklos veiksnių, darančių įtaką visuomenės sveikatai, galimo poveikio visuomenės sveikatai; 2) kultūros ministro įgaliotos institucijos, atsakingos už kultūros vertybių apsaugą, – nekilnojamojo kultūros paveldo apsaugos srityje dėl galimo planuojamos ūkinės veiklos poveikio nekilnojamajam kultūros paveldui; 3) vidaus reikalų ministro įgaliotos institucijos, atsakingos už gaisrinę ir civilinę saugą, – dėl planuojamos ūkinės veiklos vykdymo metu galimų įvykių, ekstremaliųjų įvykių, ekstremaliųjų situacijų, numatomų priemonių joms išvengti ar sušvelninti ir padariniams likviduoti; 4) aplinkos ministro įgaliotos saugomų teritorijų institucijos – dėl planuojamos ūkinės veiklos įgyvendinimo poveikio valstybės saugomoms teritorijoms, įskaitant Europos ekologinio tinklo „Natura 2000“ teritorijas; Vyriausybės tvirtinamame Lietuvos Respublikos teritorijos bendrajame plane apibrėžtoms ypač saugomo kraštovaizdžio teritorijoms ir ypač raiškiems kraštovaizdžio kompleksams; saugomų rūšių radavietėms ar augavietėms; 5) savivaldybės vykdomoji institucija – dėl planuojamos ūkinės veiklos poveikio aplinkai vertinimo ir šios veiklos galimo poveikio aplinkai, atsižvelgdama į patvirtintų ir galiojančių teritorijų planavimo dokumentų sprendinius, galimybes pagal teritorijų planavimą reglamentuojančių teisės aktų reikalavimus juos keisti, galimą poveikį savivaldybės įsteigtoms saugomoms teritorijoms ir pagal Lietuvos Respublikos aplinkos monitoringo įstatymą vykdomos savivaldybės aplinkos stebėsenos (monitoringo) duomenis. Kiti anksčiau nenurodyti PAV subjektai išvadas teikia pagal jiems įstatymuose nustatytą kompetenciją.)

_____

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Kėdainių rajono savivaldybės administracija 188768545, J. Basanavičiaus g. 36, LT-57288
Dokumento pavadinimas (antraštė)	Dėl poveikio aplinkai vertinimo išvados
Dokumento registracijos data ir numeris	2025-08-21 Nr. AS-2993
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2025-08-20 17:20:34 (GMT+03:00)
Parašo formatas	XAdES-T
Laiko žymoje nurodytas laikas	2025-08-20 17:20:49 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016, AS Sertifitseerimiskeskus EE
Sertifikato galiojimo laikas	2024-06-11 12:44:10 – 2029-06-10 23:59:59
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA-2, VI Registru Centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2025-05-16 11:31:08 iki 2028-05-15 11:31:08
Pagrindinio dokumento priedų skaičius	1
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.84.3
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2025-08-21 08:38:22)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2025-08-21 08:38:22 DBSIS

KULTŪROS PAVELDO DEPARTAMENTAS PRIE KULTŪROS MINISTERIJOS KAUNO TERITORINIS SKYRIUS

Aplinkos apsaugos agentūrai

2025-10- Nr.
Į 2025-09-26 Nr. (30-2)-A4E-9752

DĖL POVEIKIO APLINKAI VERTINIMO (VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMAS IR EKSPLOATACIJA) ATASKAITOS

Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis skyrius (toliau – KPD Kauno skyrius) gavo Jūsų 2025-09-26 prašymą pateikti išvadą dėl poveikio aplinkai vertinimo (toliau – PAV) ataskaitos ir planuojamos ūkinės veiklos (toliau – PŪV) poveikio aplinkai vadovaujantis PAV įstatymo 11 straipsnio 5 dalies ir Procedūrų vykdymo tvarkos aprašo 40 punkto nuostatomis.

KPD Kauno skyrius išnagrinėjo UAB „Infraplanas“ parengtą PAV (Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija) ataskaitą ir, vadovaudamasis Planuojamos ūkinės veiklos poveikio aplinkai vertinimo procedūrų vykdymo tvarkos aprašo, patvirtinto Lietuvos Respublikos aplinkos ministro 2017 m. spalio 31 d. įsakymu Nr. D1-885 „Dėl planuojamos ūkinės veiklos poveikio aplinkai vertinimo tvarkos aprašo patvirtinimo“ (toliau – Tvarkos aprašas) 40 punkto nuostatomis, teikia išvadas dėl PAV ataskaitos ir PŪV poveikio aplinkai (pridedama).

Vadovaudamiesi Lietuvos Respublikos viešojo administravimo įstatymu, reglamentuojančiu institucijoms nurodyti asmenims teikiamų atsakymų apskundimo tvarką, informuojame, kad šis KPD Kauno teritorinio skyriaus raštas gali būti skundžiamas tam pačiam viešojo administravimo subjektui arba aukštesniam pagal pavaldumą viešojo administravimo subjektui, Lietuvos administracinių ginčų komisijos Kauno apygardos skyriui (Laisvės al. 36, Kaunas) arba Regionų apygardos administracinio teismo Kauno rūmams (A. Mickevičiaus g. 8A, Kaunas) per vieną mėnesį nuo jo gavimo dienos.

PRIDEDAMA: Tvarkos aprašo 2 priedas, 2 l.

Planuojamos ūkinės veiklos poveikio
aplinkai vertinimo procedūrų
vykdymo tvarkos aprašo
2 priedas

IŠVADA DĖL UAB „IGNITIS RENEWABLES PROJEKTAI“ PLANUOJAMOS ŪKINĖS VEIKLOS – VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO ATASKAITOS IR POVEIKIO APLINKAI

1. Planuojamos ūkinės veiklos pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija.
2. Išvados dėl planuojamos ūkinės veiklos poveikio aplinkai pobūdis – pritariama.
3. Motyvai dėl pritarimo ar nepritarimo planuojamai ūkinei veiklai
Planuojama ūkinė veikla nepažeidžia LR nekilnjojamojo kultūros paveldo apsaugos įstatymo ir kitų teisės aktų, reglamentuojančių nekilnojamojo kultūros paveldo apsaugą.
(atsižvelgiant į aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus ir pateikiant nuorodas į juos).

4. Alternatyva (-os), kuriai (-oms) pritariama ar nepritariama.
-.
(nurodoma, jeigu ataskaitoje nagrinėtos alternatyvos)

5. Siūlomos nustatyti planuojamos ūkinės veiklos įgyvendinimo sąlygos, susijusios su atliktu poveikio aplinkai vertinimu (nurodoma, jeigu tokias sąlygas reikia ir galima nustatyti pagal teisės aktų reikalavimus):
5.1. iki veiklos vykdymo pradžios
Įvertinti planuojamų žemės judinimo darbų apimtis ir vadovautis Paveldo tvarkybos reglamento PTR 2.13.01:2022 „Archeologinio kultūros paveldo tvarkyba“ nuostatomis (Archeologiniai tyrimai privalomi, kai: 7.8 punktas: numatoma vykdyti didelės apimties žemės judinimo darbus (rengti karjerus, kasti tvenkinius, tiesti susisiekimo komunikacijas, inžinerinius tinklus bei statyti jiems funkcionuoti būtinus statinius ir kt.), keičiančius reljefą daugiau nei 5 ha plote, prieš tai atlikus šio Reglamento 23 punkte nurodytą archeologinio paveldo tyrimų būtinybės įvertinimą, išskyrus atvejus, kai įgyvendinamas ypatingos valstybinės svarbos projektas – krašto apsaugos srities projektas, karinės infrastruktūros, reikalingos priimančiosios šalies paramai užtikrinti, pritaikymo ir (ar) sukūrimo projektas, kiti nacionaliniam saugumui reikšmingi projektai, kuriems Lietuvos Respublikos Vyriausybės nutarimais suteiktas neatidėliotinus valstybės saugumo ir gynybos poreikius užtikrinančių projektų statusas, kurių tikslas – valstybės saugumas ir gynyba, kaip tai numatyta Žemės paėmimo visuomenės poreikiams įgyvendinant ypatingos valstybinės svarbos projektus įstatymo, Lietuvos Respublikos mobilizacijos ir priimančios šalies paramos įstatymo 6 straipsnio 10 punkte, Investicijų įstatymo 15^5 dalies 10 punkte ir kituose specialiuose Lietuvos Respublikos Lietuvos kariuomenės karinių poligonų įstatymuose);
5.2. statybos etape_____;
5.3. veiklos vykdymo etape_____;
5.4. veiklos nutraukimo etape_____.

6. Nuomonė dėl vertinimo metodų, rezultatų, ataskaitos kokybės

_____

(pagrindžiama teisės aktų ar tarptautinių standartų reikalavimais, moksline literatūra)

7. Siūlomos nustatyti priemonės galimam reikšmingam neigiamam poveikiui aplinkai išvengti, jį sumažinti, kompensuoti, atkurti tai, kas pažeista:

7.1. iki veiklos vykdymo pradžios

Įvertinti planuojamų žemės judinimo darbų apimtis ir vadovautis Paveldo tvarkybos reglamento PTR 2.13.01:2022 „Archeologinio kultūros paveldo tvarkyba“ nuostatomis (Archeologiniai tyrimai privalomi, kai: 7.8 punktas: numatoma vykdyti didelės apimties žemės judinimo darbus (rengti karjerus, kasti tvenkinius, tiesti susisiekimo komunikacijas, inžinerinius tinklus bei statyti jiems funkcionuoti būtinus statinius ir kt.), keičiančius reljefą daugiau nei 5 ha plote, prieš tai atlikus šio Reglamento 23 punkte nurodytą archeologinio paveldo tyrimų būtinybės įvertinimą, išskyrus atvejus, kai įgyvendinamas ypatingos valstybinės svarbos projektas – krašto apsaugos srities projektas, karinės infrastruktūros, reikalingos priimančiosios šalies paramai užtikrinti, pritaikymo ir (ar) sukūrimo projektas, kiti nacionaliniam saugumui reikšmingi projektai, kuriems Lietuvos Respublikos Vyriausybės nutarimais suteiktas neatidėliotinus valstybės saugumo ir gynybos poreikius užtikrinančių projektų statusas, kurių tikslas – valstybės saugumas ir gynyba, kaip tai numatyta Žemės paėmimo visuomenės poreikiams įgyvendinant ypatingos valstybinės svarbos projektus įstatymo, Lietuvos Respublikos mobilizacijos ir priimančios šalies paramos įstatymo 6 straipsnio 10 punkte, Investicijų įstatymo 155 dalies 10 punkte ir kituose specialiuose Lietuvos Respublikos Lietuvos kariuomenės karinių poligonų įstatymuose);

7.2.statybos etape

Vadovautis Nekilnojamojo kultūros paveldo apsaugos įstatymo 9 str. 3 d.: „jei atliekant statybos ar kitokius darbus aptinkama archeologinių radinių ar nekilnojamojo daikto vertingųjų savybių, valdytojai ar darbus atliekantys asmenys apie tai privalo pranešti savivaldybės paveldosaugos padaliniui, o šis informuoja Departamentą“;

7.3. veiklos vykdymo etape_____;

7.4. veiklos nutraukimo etape_____.

8. Informacija apie poveikio aplinkai vertinimo metu nustatytą sanitarinės apsaugos zoną – pritariama ar nepritariama (ko nereikia, ištrinama. Pildo tik sveikatos apsaugos ministro įgaliota institucija).

_____

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Kultūros paveldo departamentas prie Kultūros ministerijos 188692688, Šnipiškių g. 3, LT-09309 Vilnius
Dokumento pavadinimas (antraštė)	DĖL POVEIKIO APLINKAI VERTINIMO (VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMAS IR EKSPLOATACIJA) ATASKAITOS
Dokumento registracijos data ir numeris	2025-10-06 Nr. (9.38-K E)2K-1913
Dokumento gavimo data ir dokumento gavimo registracijos numeris	2025-10-07 Nr. A3-7093
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2025-10-06 15:19:01 (GMT+03:00)
Parašo formatas	XAdES-X-L
Laiko žymoje nurodytas laikas	2025-10-06 15:19:14 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016, AS Sertifitseerimiskeskus EE
Sertifikato galiojimo laikas	2023-06-20 16:29:10 – 2028-06-18 23:59:59
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA-2, VI Registru Centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2025-05-16 11:31:08 iki 2028-05-15 11:31:08 "Gauto dokumento registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA-2, VI Registru Centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2025-05-16 11:31:08 iki 2028-05-15 11:31:08
Pagrindinio dokumento priedų skaičius	1
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.85.4
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2025-10-09 10:33:43)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2025-10-09 10:33:43 DBSIS

PRIEŠGAISRINĖS APSAUGOS IR GELBĖJIMO DEPARTAMENTO PRIE VIDAUS REIKALŲ MINISTERIJOS KAUNO PRIEŠGAISRINĖ GELBĖJIMO VALDYBA

Aplinkos apsaugos agentūrai
Siunčiama per e. pristatymą

Į 2025-09-26 Nr. (30-2)-A4E-9752

IŠVADA DĖL Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos
(planuojamos ūkinės veiklos pavadinimas)

POVEIKIO APLINKAI VERTINIMO ATASKAITOS IR POVEIKIO APLINKAI

1. Planuojamos ūkinės veiklos pavadinimas: vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos.
2. Išvados dėl planuojamos ūkinės veiklos poveikio aplinkai pobūdis – pritariama.
3. Motyvai dėl pritarimo ar nepritarimo planuojamai ūkinei veiklai:
Gaisrinę saugą ir civilinę saugą reglamentuojančių teisės aktų reikalavimų, pažeidimų nenustatyta. Atsižvelgiant į Priešgaisrinės apsaugos ir gelbėjimo departamento prie Vidaus reikalų ministerijos direktoriaus 2024 m. rugsėjo 20 d. įsakymo Nr. 1-546 / 2024 (1.4 E) „Dėl Priešgaisrinės apsaugos ir gelbėjimo departamento prie Vidaus reikalų ministerijos direktoriaus 2018 m. gruodžio 18 d. įsakymo Nr. 1-469 „Dėl planuojamos ūkinės veiklos poveikio aplinkai vertinimo dokumentų nagrinėjimo Priešgaisrinės apsaugos ir gelbėjimo departamente prie Vidaus reikalų ministerijos tvarkos aprašo patvirtinimo“ pakeitimo reikalavimus pritarti Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaitai.
(atsižvelgiant į aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus ir pateikiant nuorodas į juos).

4. Alternatyva (-os), kuriai (-oms) pritariama ar nepritariama.
Išnagrinėtos alternatyvos: „0“ alternatyva“-nieko nedarymo, 1-a alternatyva- 25 VE (gamybinių pajėgumų alternatyva), taip poveikį aplinkai ir gyventojų sveikatai mažinančių priemonių alternatyva, kurios neprieštarauja civilinę saugą ir gaisrinę saugą reglamentuojantiems teisės aktams, pritariame visoms alternatyvoms.
(nurodoma, jeigu ataskaitoje nagrinėtos alternatyvos)

5. Siūlomos nustatyti planuojamos ūkinės veiklos įgyvendinimo sąlygos, susijusios su atliktu poveikio aplinkai vertinimu (nurodoma, jeigu tokias sąlygas reikia ir galima nustatyti pagal teisės aktų reikalavimus):
5.1. iki veiklos vykdymo pradžios_____;
5.2. statybos etape_____;
5.3. veiklos vykdymo etape_____;
5.4. veiklos nutraukimo etape_____.

6. Nuomonė dėl vertinimo metodų, rezultatų, ataskaitos kokybės
_____.
(pagrindžiama teisės aktų ar tarptautinių standartų reikalavimais, moksline literatūra)

7. Siūlomos nustatyti priemonės galimam reikšmingam neigiamam poveikiui aplinkai išvengti, jį sumažinti, kompensuoti, atkurti tai, kas pažeista:
7.1. iki veiklos vykdymo pradžios_____;
7.2. statybos etape_____;
7.3. veiklos vykdymo etape_____;
7.4. veiklos nutraukimo etape_____.
8. Informacija apie poveikio aplinkai vertinimo metu nustatytą sanitarinės apsaugos zoną – pritariama ar nepritariama (ko nereikia, ištrinama. Pildo tik sveikatos apsaugos ministro įgaliota institucija).

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Priešgaisrinės apsaugos ir gelbėjimo departamentas prie Vidaus reikalų ministerijos 188601311, Švitrigailos g. 18, LT-03223 Vilnius
Dokumento pavadinimas (antraštė)	Išvada dėl Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaitos ir poveikio aplinkai
Dokumento registracijos data ir numeris	2025-10-03 Nr. 9.4-2-1068 /2025(11.2.111 E)
Dokumento gavimo data ir dokumento gavimo registracijos numeris	2025-10-03 Nr. A3-7038
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2025-10-03 10:25:38 (GMT+03:00)
Parašo formatas	XAdES-X-L
Laiko žymoje nurodytas laikas	2025-10-03 10:25:51 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016, AS Sertifitseerimiskeskus EE
Sertifikato galiojimo laikas	2023-08-24 18:24:09 – 2028-08-22 23:59:59
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA-2, VI Registru Centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2025-05-16 11:31:08 iki 2028-05-15 11:31:08 "Gauto dokumento registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA-2, VI Registru Centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2025-05-16 11:31:08 iki 2028-05-15 11:31:08
Pagrindinio dokumento priedų skaičius	–
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.85.4
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2025-10-06 10:00:03)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2025-10-06 10:00:03 DBSIS

3 PRIEDAS. VISUOMENĖS INFORMAVIMAS

3.1 Priedėlis. Informavimas apie PAV pradžią

PRANEŠIMAS APIE planuojamos ūkinės veiklos (PŪV)

„Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“

POVEIKIO APLINKAI VERTINIMO (PAV) PRADŽIĄ

PŪV organizatorius: UAB „Ignitis renewables projektai“, įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. (8-625) 06 382, el. LTWF03@ignitis.lt,;

PAV dokumentų rengėjas: UAB „Infraplanas“; adresas: Inovacijų g. 3, Biruliškių k., 54469 Kauno r. sav.; tel., el. paštas: +370 621 66 746 ; info@infraplanas.lt.

PŪV pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija.

PŪV vieta: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. Vėjo elektrinių parką planuojama įrengti Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime.

PŪV pobūdis: Elektros energijos gamyba iš atsinaujinančių energijos išteklių. Planuojama pastatyti ir eksploatuoti iki 25 vnt. vėjo elektrinių. VE nominali galia sieks iki 8 MW, bendra planuojamo vėjo elektrinių parko galia neviršys 200 MW galingumo. Elektros energija bus perduodamą į planuojamą įrengti Normainėlių pastotę ir pateikiama į AB "Litgrid" elektros tinklą.

PŪV PAV atlikimo teisinis pagrindas*: pagal Lietuvos Respublikos PŪV PAV įstatymo (toliau – PAV įstatymas) 3 str. 1 d.:* PAV įstatymo 1 priedo 3.10.2 p. „sausumoje, kai planuojama statyti 7 ar daugiau VE ir atstumas nuo planuojamų statyti VE iki pastatytų, statomų ar planuojamų statyti yra 5 km ar mažesnis (matuojant tarp stiebų centrų) arba kai šie skaičiai ir atstumo dydžiai pasiekiami, įskaitant jau pastatytas, statomas ar planuojamas statyti VE“.

Numatomos nagrinėti alternatyvos: VE parko įrengimas planuojamas teritorijose, esančiose Jonavos r. sav., Žeimių bei Kulvos sen. VE parko vystymo alternatyvos (iki 25 VE išdėstymo analizuojamoje teritorijoje variantai, atsižvelgiant į esamą gyvenamą aplinką, saugomas ir „Natura 2000“ teritorijas, kultūros vertybes, biologinę įvairovę, priimtus LR Atsinaujinančių išteklių energetikos įstatymo pakeitimus po Seimo patvirtinto „Proveržio paketo“ ir kt.) bei „nulinė“ alternatyva, kuri atspindi esamą aplinkos būklę.

PŪV vietos ypatumai: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431**.** PŪV vieta planuojama atokiau nuo urbanizuotų/urbanizuojamų teritorijų: rekreacinės, gyvenamosios, visuomeninės paskirties bei pramonės ir sandėliavimo teritorijų. Artimiausia tankiau apgyvendinta teritorija – 1,5 km (nuo VE4) į šiaurę yra Kuigalių miestelis. PŪV teritorija yra toli nuo rekreacinių, kurortinių, visuomenės paskirties ir kt. teritorijų atžvilgiu. Artimiausias gyvenamasis pastatas, nuo VE10 nutolęs ~ 628 m.

Atstumas nuo VE įrengimui analizuojamų vietų iki saugomų ir „Natura 2000“ teritorijų ribų: Labūnavos miškas (LTKEDB001) – paukščių apsaugai svarbi teritorija (PAST), nuo artimiausios VE nutolęs apie 0,56 km vakarų kryptimi. Atstumas nuo VE iki registruoto kultūros paveldo objekto – Normainėlių piliakalnis su Zomkumi (33276) – 1,73 km šiaurės rytų kryptimi. Atstumas iki artimiausios kaimyninės valstybės - Baltarusijos nuo VE Nr. 22 nustatytas 109,04 km.

PAV subjektai: Jonavos r. savivaldybės administracija, Kauno visuomenės sveikatos centras, Kauno apskrities priešgaisrinė gelbėjimo valdyba, Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys, Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos.

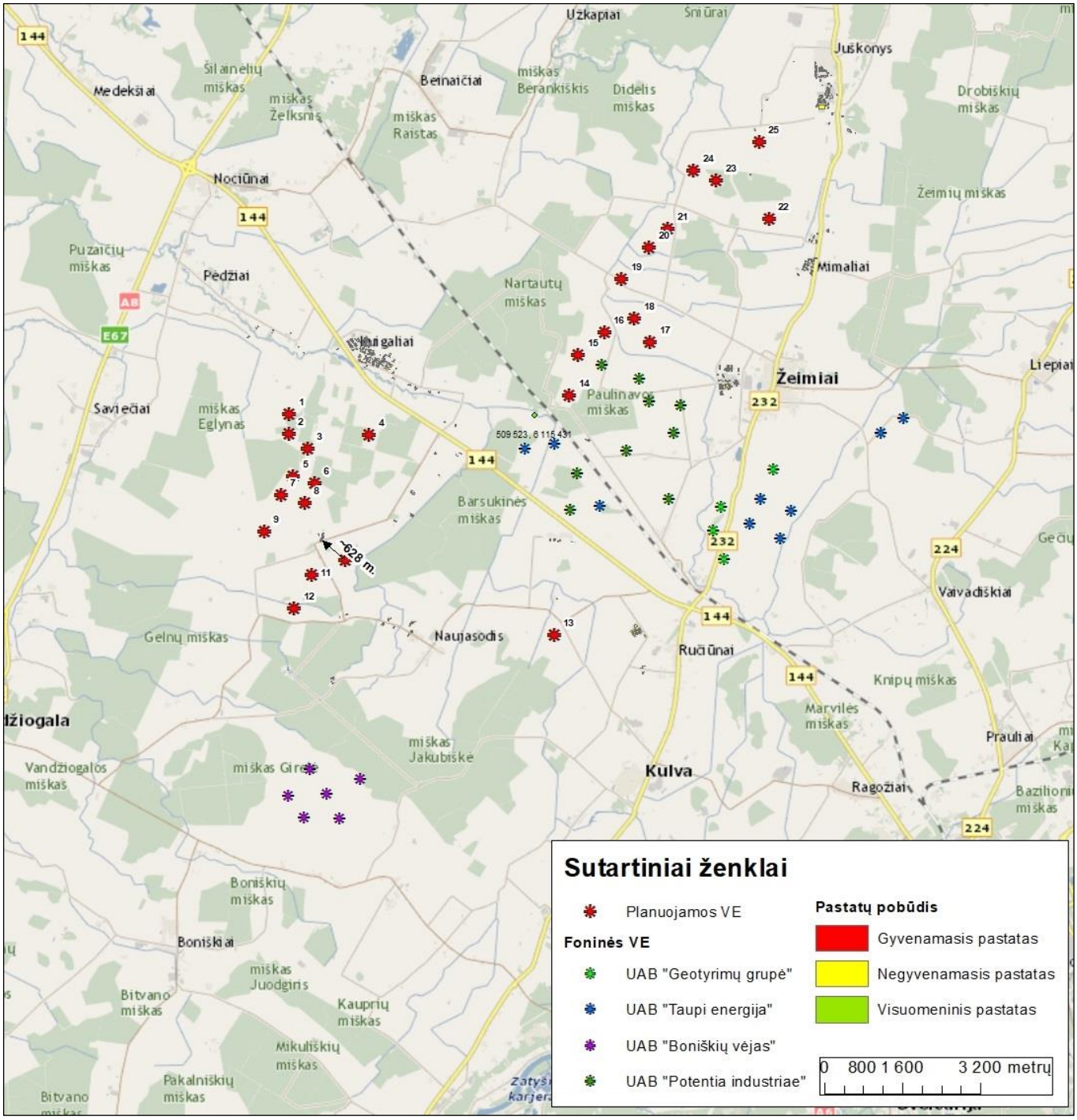
PAV atlieka ir sprendimą dėl PŪV poveikio aplinkai priima Aplinkos apsaugos agentūra (toliau –AAA) (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. p. aaa@gamta.lt).

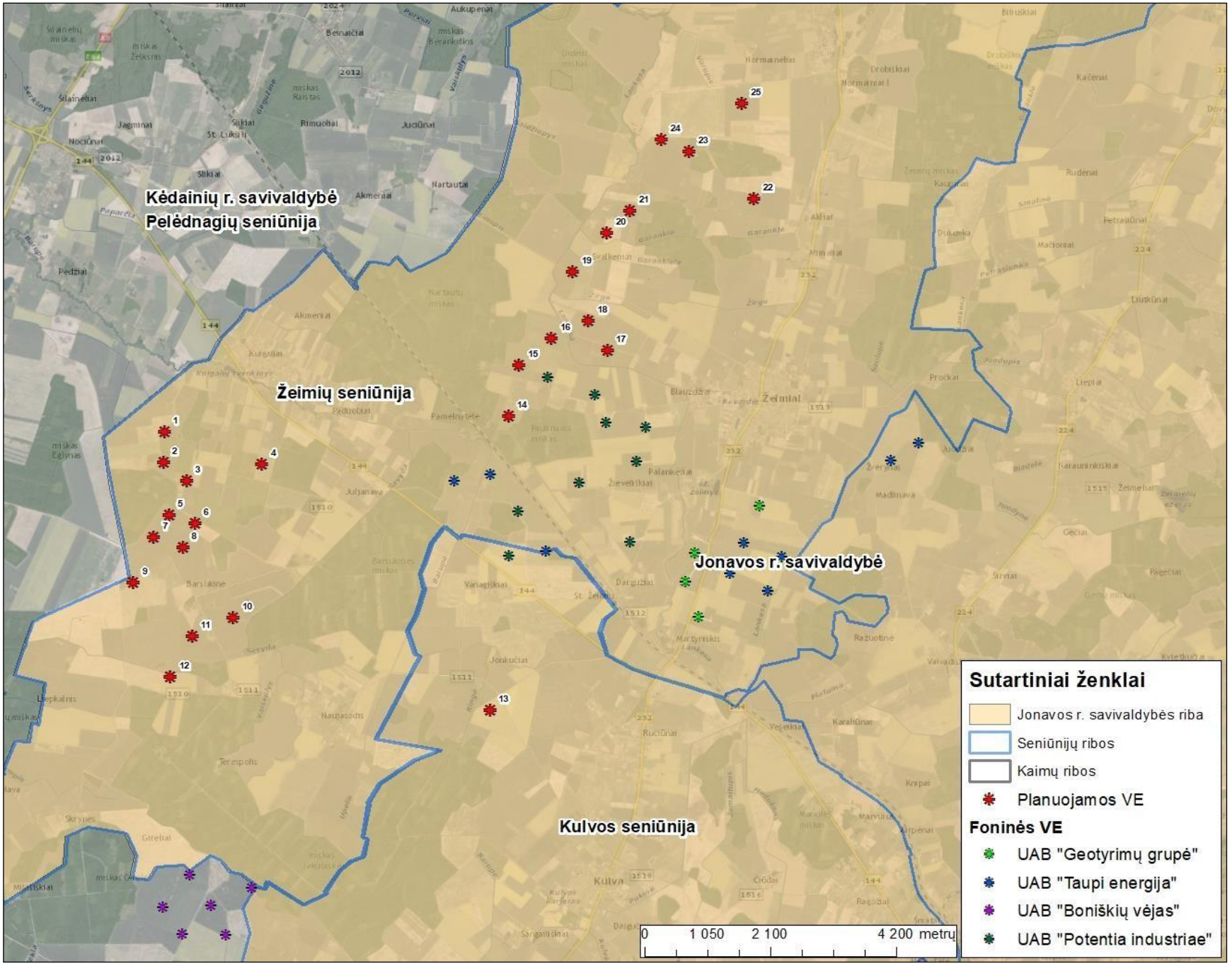
Visuomenė teikia pasiūlymus dėl pradėto PAV (įskaitant galimybę užduoti klausimus ir gauti informaciją) AAA ir turi teisę teikti pasiūlymus PAV dokumentų rengėjui arba PŪV organizatoriui per 10 darbo dienų nuo pranešimo apie PAV pradžią paskelbimo AAA interneto svetainėje (https://aaa.lrv.lt/) dienos, terminą skaičiuojant nuo kitos dienos jį paskelbus.

Atlikus PAV, AAA priima sprendimą dėl PŪV poveikio aplinkai. Jeigu AAA priima sprendimą dėl PŪV poveikio aplinkai, kad veikla atitinka aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo

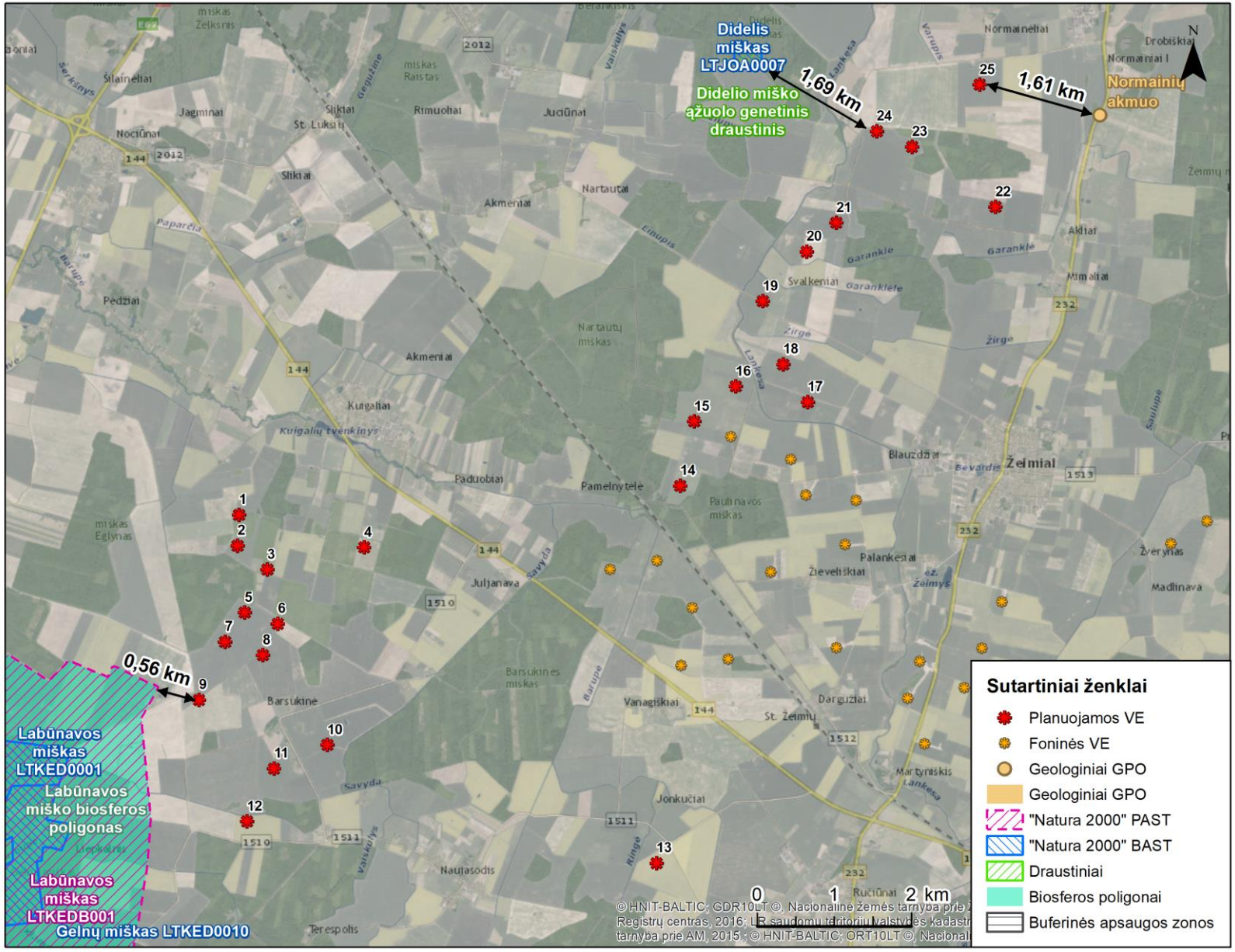
apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus ir nedarys reikšmingo neigiamo poveikio aplinkai, ši PŪV gali būti vykdoma. Jeigu AAA priima sprendimą dėl PŪV poveikio aplinkai, kad PŪV neatitinka aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimų ir darys reikšmingą neigiamą poveikį aplinkai, įstatymuose įtvirtinti leidimai negali būti išduodami ir tokia veikla negali būti vykdoma.

Planuojamos ūkinės veiklos preliminarios vietos gyvenamosios aplinkos atžvilgiu

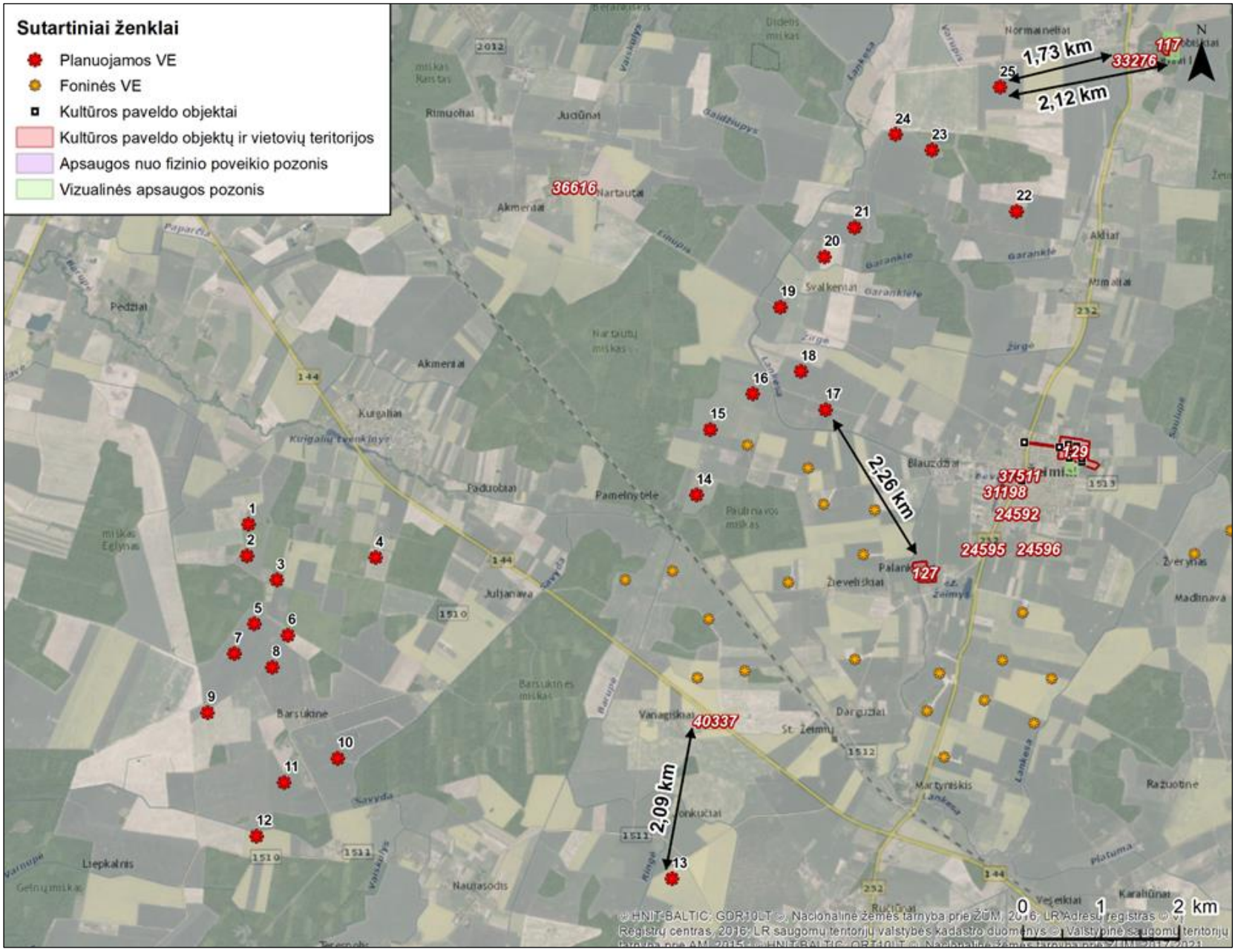

Užkapiai
Šniūrai
Juškonys
Medeksiai
Šilainelių miškas
miškas Želksnis
Beinaičiai
miškas Berankiškis
Didelis miškas
Drobiškių miškas
miškas Raistas
Nociūnai
Žeimių miškas
Pužaičių miškas
Pėdžiai
Mimaliai
Nartautų miškas
Žeimiai
Liepiai
Savičiai
miškas Eglynas
Paulinavos miškas
509 523, 6 115 431
Barsukinės miškas
628 m.
Naujasodis
Ručiūnai
Vaivadiškiai
Gelnų miškas
Knipų miškas
Marvilės miškas
Praulai
miškas Jakubiškė
Kulva
Ragožiai
Vandžiogalos miškas
miškas Girė
Boniškių miškas
Boniškiai
miškas Juodgiris
Bitvano miškas
Kauprių miškas
Mikuliškių miškas
Pakalniškių miškas
Sutartiniai ženklai
Planuojamos VE
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
Pastatų pobūdis
Gyvenamasis pastatas
Negyvenamasis pastatas
Visuomeninis pastatas
0 800 1 600 3 200 metrų


Kėdainių r. savivaldybė
Pelėdnagių seniūnija
Žeimių seniūnija
Jonavos r. savivaldybė
Kulvos seniūnija
Sutartiniai ženklai
Jonavos r. savivaldybės riba
Seniūnijų ribos
Kaimų ribos
Planuojamos VE
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia industriae"
0
1 050
2 100
4 200 metrų

Planuojamos ūkinės veiklos preliminarios vietos saugomų teritorijų atžvilgiu


Didelis miškas LTJOA0007
Didelio miško ąžuolo genetinis draustinis
1,69 km
1,61 km
Normainių akmuo
0,56 km
Labūnavos miškas LTKED0001
Labūnavos miško biosferos poligonas
Labūnavos miškas LTKEDB001
Gelnų miškas LTKED0010
Sutartiniai ženklai
Planuojamos VE
Foninės VE
Geologiniai GPO
Geologiniai GPO
"Natura 2000" PAST
"Natura 2000" BAST
Draustiniai
Biosferos poligonai
Buferinės apsaugos zonos
0 1 2 km
© HNIT-BALTIC; GDR10LT ©, Nacionalinė žemės tarnyba prie
Registrų centras, 2016; LR saugomų teritorijų valstybės kadastr
tarnyba prie AM, 2015; © HNIT-BALTIC; ORT10LT ©, Nacionali

Planuojamos ūkinės veiklos preliminarios vietos kultūros paveldo objektų atžvilgiu


Sutartiniai ženklai
Planuojamos VE
Foninės VE
Kultūros paveldo objektai
Kultūros paveldo objektų ir vietovių teritorijos
Apsaugos nuo fizinio poveikio pozonis
Vizualinės apsaugos pozonis
1,73 km
2,12 km
2,26 km
2,09 km
36616
33276
40337
37511
31198
24592
24595
24596
117
127
129
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
Normanėliai
Rimučiai
Judūnai
Nartautai
Akmenėlai
Pedžiai
Kurgaliai
Paduobiai
Pamelnytė
Juljanava
Barsukinė
Liepkalnis
Nautasodis
Svalkėniai
Blauzdžiai
Palanė
Žievelškiai
Vanagiškiai
Dargužiai
Martynėliškis
Ramučiai
Akliai
Mimaliai
Žverynas
Madinava
Ražuotinė
Karalūnai
Veiseliškiai
0 1 2 km
© HNIT-BALTIC; GDR10LT ; Nacionalinė žemės tarnyba prie ŽŪM, 2016; LR Adresų registras ; Registrų centras, 2016; LR saugomų teritorijų valstybės kadastro duomenys ; Valstybinė saugomų teritorijų tarnyba prie AM, 2015 ; HNIT-BALTIC; GDR10LT ; Nacionalinė žemės tarnyba prie ŽŪM, 2017-2021

VISUOMENĖS INFORMAVIMO APIE VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO (PAV) PRADŽIĄ SUVESTINĖ

Informacija paskelbta:

1. Jonavos rajono laikraštyje „Alio Jonava“ 2023-10-20;
2. Jonavos rajono savivaldybės skelbimų lentoje ir internetiniame puslapyje 2023-10-20;
3. Žeimių seniūnijos skelbimų lentoje 2023-10-18;
4. Kulvos seniūnijos skelbimų lentoje 2023-10-18;
5. Dokumento rengėjo UAB „Infraplanas“ internetiniame puslapyje 2023-10-18;
6. Atsakingosios institucijos – Aplinkos apsaugos agentūros internetiniame puslapyje www.gamta.lt nuorodoje „Pranešimai apie poveikio aplinkai vertinimo pradžią“ - 2023-10-19.

Skelbimo tekstas:

PRANEŠIMAS APIE planuojamos ūkinės veiklos (PŪV)

„VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS“

POVEIKIO APLINKAI VERTINIMO (PAV) PRADŽIĄ

PŪV organizatorius: UAB „Ignitis renewables projektai“, įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. (8-625) 06 382, el. LTWF03@ignitis.lt,;

PAV dokumentų rengėjas: UAB „Infraplanas“; adresas: Inovacijų g. 3, Biruliškių k., 54469 Kauno r. sav.; tel., el. paštas: +370 621 66 746 ; info@infraplanas.lt.

PŪV pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija.

PŪV vieta: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. Vėjo elektrinių parką planuojama įrengti Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime.

PŪV pobūdis: Elektros energijos gamyba iš atsinaujinančių energijos išteklių. Planuojama pastatyti ir eksploatuoti iki 25 vnt. vėjo elektrinių. VE nominali galia sieks iki 8 MW, bendra planuojamo vėjo elektrinių parko galia neviršys 200 MW galingumo. Elektros energija bus perduodamą į planuojamą įrengti Normainėlių pastotę ir pateikiama į AB "Litgrid" elektros tinklą.

PŪV PAV atlikimo teisinis pagrindas*: pagal Lietuvos Respublikos PŪV PAV įstatymo (toliau – PAV įstatymas) 3 str. 1 d.:* PAV įstatymo 1 priedo 3.10.2 p. „sausumoje, kai planuojama statyti 7 ar daugiau VE ir atstumas nuo planuojamų statyti VE iki pastatytų, statomų ar planuojamų statyti yra 5 km ar mažesnis (matuojant tarp stiebų centrų) arba kai šie skaičiai ir atstumo dydžiai pasiekiami, įskaitant jau pastatytas, statomas ar planuojamas statyti VE“.

Numatomos nagrinėti alternatyvos: VE parko įrengimas planuojamas teritorijose, esančiose Jonavos r. sav., Žeimių bei Kulvos sen. VE parko vystymo alternatyvos (iki 25 VE išdėstymo analizuojamoje teritorijoje variantai, atsižvelgiant į esamą gyvenamą aplinką, saugomas ir „Natura 2000“ teritorijas, kultūros vertybes, biologinę įvairovę, priimtus LR Atsinaujinančių išteklių energetikos įstatymo pakeitimus po Seimo patvirtinto „Proveržio paketo“ ir kt.) bei „nulinė“ alternatyva, kuri atspindi esamą aplinkos būklę.

PŪV vietos ypatumai: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431**.** PŪV vieta planuojama atokiau nuo urbanizuotų/urbanizuojamų teritorijų: rekreacinės, gyvenamosios, visuomeninės paskirties bei pramonės ir

sandėliavimo teritorijų. Artimiausia tankiau apgyvendinta teritorija – 1,5 km (nuo VE4) į šiaurę yra Kuigalių miestelis. PŪV teritorija yra toli nuo rekreacinių, kurortinių, visuomenės paskirties ir kt. teritorijų atžvilgiu. Artimiausias gyvenamasis pastatas, nuo VE10 nutolęs ~ 628 m.

Atstumas nuo VE įrengimui analizuojamų vietų iki saugomų ir „Natura 2000“ teritorijų ribų: Labūnavos miškas (LTKEDB001) – paukščių apsaugai svarbi teritorija (PAST), nuo artimiausios VE nutolęs apie 0,56 km vakarų kryptimi. Atstumas nuo VE iki registruoto kultūros paveldo objekto – Normainėlių piliakalnis su Zomkumi (33276) – 1,73 km šiaurės rytų kryptimi. Atstumas iki artimiausios kaimyninės valstybės - Baltarusijos nuo VE Nr. 22 nustatytas 109,04 km.

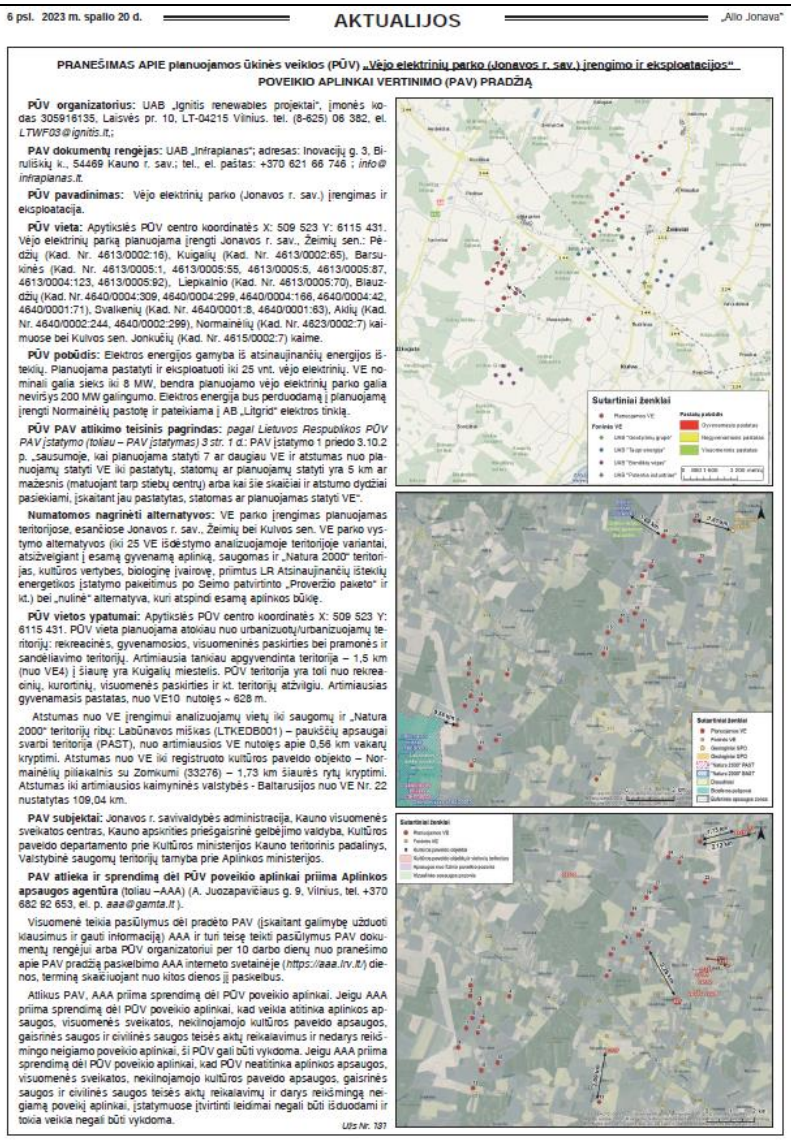
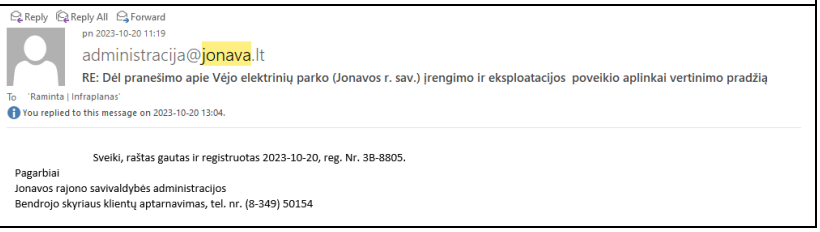
PAV subjektai: Jonavos r. savivaldybės administracija, Kauno visuomenės sveikatos centras, Kauno apskrities priešgaisrinė gelbėjimo valdyba, Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys, Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos.

PAV atlieka ir sprendimą dėl PŪV poveikio aplinkai priima Aplinkos apsaugos agentūra (toliau –AAA) (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. p. aaa@gamta.lt).

Visuomenė teikia pasiūlymus dėl pradėto PAV (įskaitant galimybę užduoti klausimus ir gauti informaciją) AAA ir turi teisę teikti pasiūlymus PAV dokumentų rengėjui arba PŪV organizatoriui per 10 darbo dienų nuo pranešimo apie PAV pradžią paskelbimo AAA interneto svetainėje (https://aaa.lrv.lt/) dienos, terminą skaičiuojant nuo kitos dienos jį paskelbus.

Atlikus PAV, AAA priima sprendimą dėl PŪV poveikio aplinkai. Jeigu AAA priima sprendimą dėl PŪV poveikio aplinkai, kad veikla atitinka aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus ir nedarys reikšmingo neigiamo poveikio aplinkai, ši PŪV gali būti vykdoma. Jeigu AAA priima sprendimą dėl PŪV poveikio aplinkai, kad PŪV neatitinka aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimų ir darys reikšmingą neigiamą poveikį aplinkai, įstatymuose įtvirtinti leidimai negali būti išduodami ir tokia veikla negali būti vykdoma.

Skelbimų kopijos:

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
1.	Jonavos rajono laikraštyje „Alio Jonava“	2023-10-20	
2.	Jonavos rajono savivaldybės skelbimų lentoje ir internetiniame puslapyje	2023-10-20	

6 psl. 2023 m. spalio 20 d. AKTUALIJOS „Alio Jonava“

PRANEŠIMAS APIE planuojamos ūkinės veiklos (PŪV) „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“ POVEIKIO APLINKAI VERTINIMO (PAV) PRADŽIĄ

PŪV organizatorius: UAB „Ignitis renewables projektai“, įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. (8-625) 06 382, el. *LTWF03@ignitis.lt.*;

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PŪV pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija.

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PŪV vietos ypatumai: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. PŪV vieta planuojama atokiau nuo urbanizuotų/urbanizuojamų teritorijų: rekreacinės, gyvenamosios, visuomeninės paskirties bei pramonės ir sandėliavimo teritorijų. Artimiausia tankiau apgyvendinta teritorija – 1,5 km (nuo VE4) į šiaurę yra Kulgalių miestelis. PŪV teritorija yra toli nuo rekreacinių, kurortinių, visuomenės paskirties ir kt. teritorijų atžvilgiu. Artimiausias gyvenamasis pastatas, nuo VE10 nutolęs ~ 628 m.

Atstumas nuo VE įrengimui analizuojamų vietų iki saugomų ir „Natura 2000“ teritorijų ribų: Labūnavos miškas (LTKEDB001) – paukščių apsaugai svarbi teritorija (PAST), nuo artimiausios VE nutolęs apie 0,56 km vakarų kryptimi. Atstumas nuo VE iki registruoto kultūros paveldo objekto – Normainėlių piliakalnis su Zomkumi (33276) – 1,73 km šiaurės rytų kryptimi. Atstumas iki artimiausios kaimyninės valstybės - Baltarusijos nuo VE Nr. 22 nustatytas 109,04 km.

PAV subjektai: Jonavos r. savivaldybės administracija, Kauno visuomenės sveikatos centras, Kauno apskrities priešgaisrinė gelbėjimo valdyba, Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys, Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos.

PAV atlieka ir sprendimą dėl PŪV poveikio aplinkai priima Aplinkos apsaugos agentūra (toliau –AAA) (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. p. *aaa@gamta.lt*).

Visuomenė teikia pasiūlymus dėl pradėto PAV (įskaitant galimybę užduoti klausimus ir gauti informaciją) AAA ir turi teisę teikti pasiūlymus PAV dokumentų rengėjui arba PŪV organizatoriui per 10 darbo dienų nuo pranešimo apie PAV pradžią paskelbimo AAA interneto svetainėje (*https://aaa.lrv.lt/*) dienos, terminą skaičiuojant nuo kitos dienos jį paskelbus.

Atlikus PAV, AAA priima sprendimą dėl PŪV poveikio aplinkai. Jeigu AAA priima sprendimą dėl PŪV poveikio aplinkai, kad veikla atitinka aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus ir nedarys reikšmingo neigiamo poveikio aplinkai, ši PŪV gali būti vykdoma. Jeigu AAA priima sprendimą dėl PŪV poveikio aplinkai, kad PŪV neatitinka aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimų ir darys reikšmingą neigiamą poveikį aplinkai, įstatymuose įtvirtinti leidimai negali būti išduodami ir tokia veikla negali būti vykdoma.

Užs Nr. 197

Reply Reply All Forward

pn 2023-10-20 11:19

administracija@jonava.lt

RE: Dėl pranešimo apie Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo pradžią

To 'Raminta | Infraplanas'

You replied to this message on 2023-10-20 13:04.

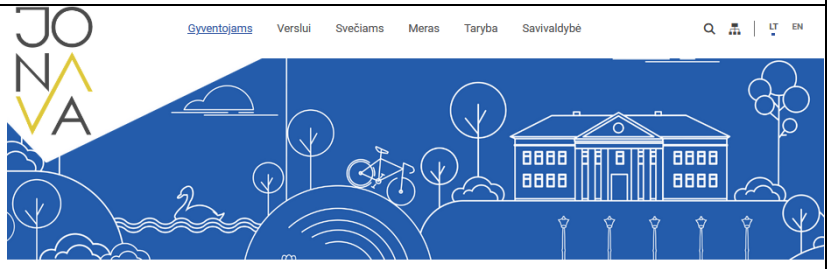
Sveiki, raštas gautas ir registruotas 2023-10-20, reg. Nr. 3B-8805.

Pagarbiai

Jonavos rajono savivaldybės administracijos

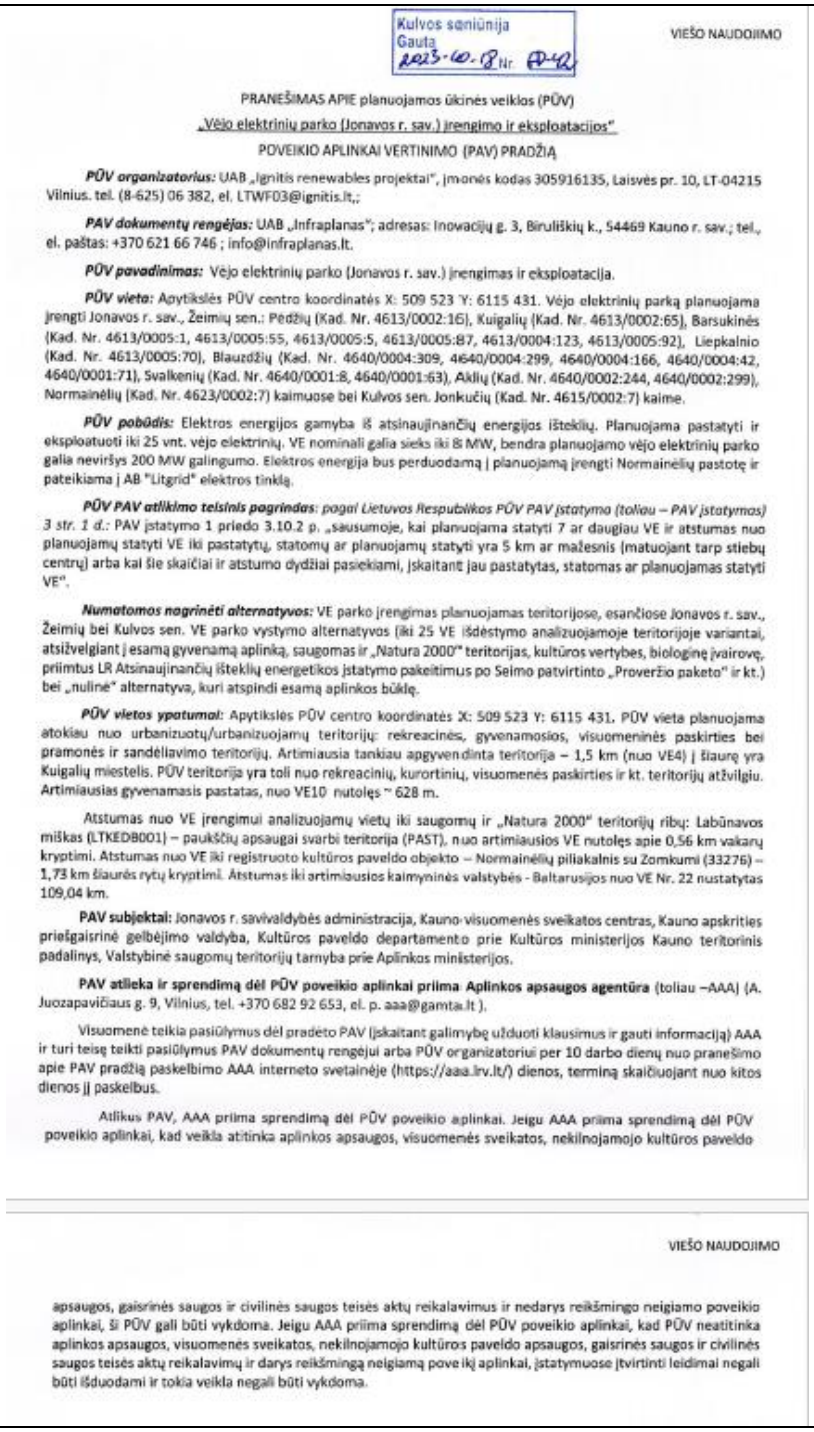
Bendrojo skyriaus klientų aptarnavimas, tel. nr. (8-349) 50154

Visuomenės informavimas

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
			 **Pranešimas apie planuojamos ūkinės veiklos „Vėjo elektrinių parko įrengimo ir eksploatacijos" poveikio aplinkai vertinimo pradžią** 2023-10-20 PŪV organizatorius: UAB „Ignitis renewables projektai", įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. (8-625) 06 382, el. LTWF03@ignitis.lt;; PAV dokumentų rengėjas: UAB „Infraplanas"; adresas: Inovacijų g. 3, Biruliškių k., 54469 Kauno r. sav.; tel., el. paštas: +370 621 66 746 ; info@infraplanas.lt. PŪV pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija. PŪV vieta: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. Vėjo elektrinių parką planuojama įrengti Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime. PŪV pobūdis: Elektros energijos gamyba iš atsinaujinančių energijos išteklių. Planuojama pastatyti ir eksploatuoti iki 25 vnt. vėjo elektrinių. VE nominali galia sieks iki 8 MW, bendra planuojamo vėjo elektrinių parko galia neviršys 200 MW galingumo. Elektros energija bus perduodamą į planuojamą įrengti Normainėlių pastotę ir pateikiama į AB "Litgrid" elektros tinklą. PŪV PAV atlikimo teisinis pagrindas: pagal Lietuvos Respublikos PŪV PAV įstatymo (toliau – PAV įstatymas) 3 str. 1 d.: PAV įstatymo 1 priedo 3.10.2 p. „sausumoje, kai planuojama statyti 7 ar daugiau VE ir atstumas nuo planuojamų statyti VE iki pastatytų, statomų ar planuojamų statyti yra 5 km ar mažesnis (matuojant tarp stiebų centrų) arba kai šie skaičiai ir atstumo dydžiai pasiekiami, įskaitant jau pastatytas, statomas ar planuojamas statyti VE". Numatomos nagrinėti alternatyvos: VE parko įrengimas planuojamas teritorijose, esančiose Jonavos r. sav., Žeimių bei Kulvos sen. VE parko vystymo alternatyvos (iki 25 VE išdėstymo analizuojamoje teritorijoje variantai, atsižvelgiant į esamą gyvenamą aplinką, saugomas ir „Natura 2000" teritorijas, kultūros vertybes, biologinę įvairovę, priimtus LR Atsinaujinančių išteklių energetikos įstatymo pakeitimus po Seimo patvirtinto „Proveržio paketo" ir kt.) bei „nulinė" alternatyva, kuri atspindi esamą aplinkos būklę. 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PAV subjektai: Jonavos r. savivaldybės administracija, Kauno visuomenės sveikatos centras, Kauno apskrities priešgaisrinė gelbėjimo valdyba, Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys, Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos. PAV atlieka ir sprendimą dėl PŪV poveikio aplinkai priima Aplinkos apsaugos agentūra (toliau –AAA) (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. p. aaa@gamta.lt). Visuomenė teikia pasiūlymus dėl pradėto PAV (įskaitant galimybę užduoti klausimus ir gauti informaciją) AAA ir turi teisę teikti pasiūlymus PAV dokumentų rengėjui arba PŪV organizatoriui per 10 darbo dienų nuo pranešimo apie PAV pradžią paskelbimo AAA interneto svetainėje (https://aaa.lrv.lt/) dienos, terminą skaičiuojant nuo kitos dienos jį paskelbus. Atlikus PAV, AAA priima sprendimą dėl PŪV poveikio aplinkai. 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Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
3.	Žeimių seniūnijos skelbimų lentoje	2023-10-18	UAB INFRAPLANAS ORIGINALAS NEBUS SIUNČIAMAS Jonavos r. sav. Žeimių seniūnija (Kauno g. 47, Žeimių mstl., LT-55384 Jonavos r. sav.), el. p. faustas.pilipavicius@jonava.lt; Jonavos r. sav. Kulvos seniūnija (Tarybų g. 2, Kulvos k., LT-55350 Jonavos r. sav.) el. p. ramunas.gudonavicius@jonava.lt; 2023-10-18 Nr. S-2023-162 Jonavos rajono savivaldybės administracija Žeimių seniūnija Gauta 60-51 2023 m. 10 mėn. 18 d. DĖL PRANEŠIMO APIE VĖJO ELEKTRINIŲ (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO PRADŽIĄ Teikiame pranešimą apie Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo pradžią. Per 10 darbo dienų nuo pranešimo apie PAV pradžią gavimo dienos Jūs turite teisę pateikti motyvuotus pasiūlymus planuojamos ūkinės veiklos organizatoriui arba PAV dokumentų rengėjui, į kuriuos PAV dokumentų rengėjas atsižvelgs rengdamas PAV ataskaitą. Taip pat prašome informuoti PAV dokumentų rengėją apie pranešimo gavimo faktą ir datą. Gautą informaciją prašome per 3 darbo dienas paskelbti savo skelbimų lentoje. Pridedama: Pranešimas apie Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo pradžią, adoc ir pdf formatu. Uždaroji akcinė bendrovė „Infraplanas" Inovacijų g. 3, Biruliškių k., Kauno r. sav. LT-54469 Į.k. 160421745, PVM k. LT604217417 Tel.: 8-621-66746 el. p.: info@infraplanas.lt

Visuomenės informavimas

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
4.	Kulvos seniūnijos skelbimų lentoje	2023-10-19	

Kulvos seniūnija
Gauta
2023-10-18 Nr. [illegible]

VIEŠO NAUDOJIMO

PRANEŠIMAS APIE planuojamos ūkinės veiklos (PŪV)

„Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos"

POVEIKIO APLINKAI VERTINIMO (PAV) PRADŽIĄ

PŪV organizatorius: UAB „Ignitis renewables projektai", įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. (8-625) 06 382, el. LTWF03@ignitis.lt,;

PAV dokumentų rengėjas: UAB „Infraplanas"; adresas: Inovacijų g. 3, Biruliškių k., 54469 Kauno r. sav.; tel., el. paštas: +370 621 66 746 ; info@infraplanas.lt.

PŪV pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija.

PŪV vieta: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. Vėjo elektrinių parką planuojama įrengti Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime.

PŪV pobūdis: Elektros energijos gamyba iš atsinaujinančių energijos išteklių. Planuojama pastatyti ir eksploatuoti iki 25 vnt. vėjo elektrinių. VE nominali galia sieks iki 8i MW, bendra planuojamo vėjo elektrinių parko galia neviršys 200 MW galingumo. Elektros energija bus perduodamą į planuojamą įrengti Normainėlių pastotę ir pateikiama į AB "Litgrid" elektros tinklą.

PŪV PAV atlikimo teisinis pagrindas*: pagal Lietuvos Respublikos PŪV PAV įstatymo (toliau – PAV įstatymas) 3 str. 1 d.:* PAV įstatymo 1 priedo 3.10.2 p. „sausumoje, kai planuojama statyti 7 ar daugiau VE ir atstumas nuo planuojamų statyti VE iki pastatytų, statomų ar planuojamų statyti yra 5 km ar mažesnis (matuojant tarp stiebų centrų) arba kai šie skaičiai ir atstumo dydžiai pasiekiami, įskaitant jau pastatytas, statomas ar planuojamas statyti VE".

Numatomos nagrinėti alternatyvos: VE parko įrengimas planuojamas teritorijose, esančiose Jonavos r. sav., Žeimių bei Kulvos sen. VE parko vystymo alternatyvos (iki 25 VE išdėstymo analizuojamoje teritorijoje variantai, atsižvelgiant į esamą gyvenamą aplinką, saugomas ir „Natura 2000" teritorijas, kultūros vertybes, biologinę įvairovę, priimtus LR Atsinaujinančių išteklių energetikos įstatymo pakeitimus po Seimo patvirtinto „Proveržio paketo" ir kt.) bei „nulinė" alternatyva, kuri atspindi esamą aplinkos būklę.

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Atstumas nuo VE įrengimui analizuojamų vietų iki saugomų ir „Natura 2000" teritorijų ribų: Labūnavos miškas (LTKEDB001) – paukščių apsaugai svarbi teritorija (PAST), nuo artimiausios VE nutolęs apie 0,56 km vakarų kryptimi. Atstumas nuo VE iki registruoto kultūros paveldo objekto – Normainėlių piliakalnis su Zomkumi (33276) – 1,73 km šiaurės rytų kryptimi. Atstumas iki artimiausios kaimyninės valstybės - Baltarusijos nuo VE Nr. 22 nustatytas 109,04 km.

PAV subjektai: Jonavos r. savivaldybės administracija, Kauno visuomenės sveikatos centras, Kauno apskrities priešgaisrinė gelbėjimo valdyba, Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys, Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos.

PAV atlieka ir sprendimą dėl PŪV poveikio aplinkai priima Aplinkos apsaugos agentūra (toliau –AAA) (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. p. aaa@gamta.lt).

Visuomenė teikia pasiūlymus dėl pradėto PAV (įskaitant galimybę užduoti klausimus ir gauti informaciją) AAA ir turi teisę teikti pasiūlymus PAV dokumentų rengėjui arba PŪV organizatoriui per 10 darbo dienų nuo pranešimo apie PAV pradžią paskelbimo AAA interneto svetainėje (https://aaa.lrv.lt/) dienos, terminą skaičiuojant nuo kitos dienos jį paskelbus.

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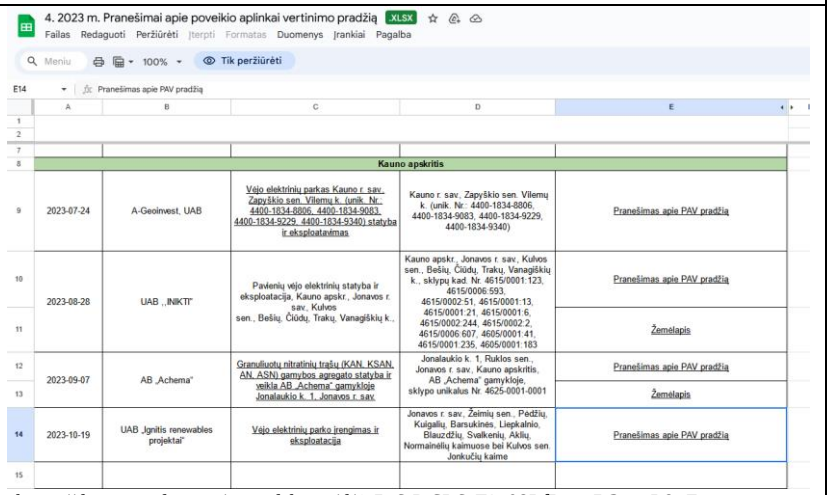
VIEŠO NAUDOJIMO

apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus ir nedarys reikšmingo neigiamo poveikio aplinkai, ši PŪV gali būti vykdoma. Jeigu AAA priima sprendimą dėl PŪV poveikio aplinkai, kad PŪV neatitinka aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimų ir darys reikšmingą neigiamą povei ikį aplinkai, įstatymuose įtvirtinti leidimai negali būti išduodami ir tokia veikla negali būti vykdoma.

Visuomenės informavimas

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
5.	Dokumento rengėjo UAB „Infraplanas“ internetiniame puslapyje	2023-10-18	 **Naujienos** 2023-10-18 **PRANEŠIMAS APIE VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO PRADŽIĄ** ***PŪV organizatorius:*** UAB „Ignitis renewables projektai“, įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. (8-625) 06 382, el. LTWF03@ignitis.lt;; ***PAV dokumentų rengėjas:*** UAB „Infraplanas“; adresas: Inovacijų g. 3, Biruliškių k., 54469 Kauno r. sav.; tel., el. paštas: +370 621 66 746 ; info@infraplanas.lt. ***PŪV pavadinimas:*** Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija. ***PŪV vieta:*** Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. Vėjo elektrinių parką planuojama įrengti Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime. ***PŪV pobūdis:*** Elektros energijos gamyba iš atsinaujinančių energijos išteklių. Planuojama pastatyti ir eksploatuoti iki 25 vnt. vėjo elektrinių. VE nominali galia siekis iki 8 MW, bendra planuojamo vėjo elektrinių parko galia neviršys 200 MW galingumo. Elektros energija bus perduodamą į planuojamą įrengti Normainėlių pastotę ir pateikiama į AB „Litgrid“ elektros tinklą. ***PŪV PAV atlikimo teisinis pagrindas****: pagal Lietuvos Respublikos PŪV PAV įstatymo (toliau – PAV įstatymas) 3 str. 1 d.:* PAV įstatymo 1 priedo 3.10.2 p. „sausumoje, kai planuojama statyti 7 ar daugiau VE ir atstumas nuo planuojamų statyti VE iki pastatytų, statomų ar planuojamų statyti yra 5 km ar mažesnis (matuojant tarp stiebų centrų) arba kai šie skaičiai ir atstumo dydžiai pasiekiami, įskaitant jau pastatytas, statomas ar planuojamas statyti VE“. ***Numatomos nagrinėti alternatyvos:*** VE parko įrengimas planuojamas teritorijose, esančiose Jonavos r. sav., Žeimių bei Kulvos sen. VE parko vystymo alternatyvos (iki 25 VE išdėstymo analizuojamoje teritorijoje variantai, atsižvelgiant į esamą gyvenamą aplinką, saugomas ir „Natura 2000“ teritorijas, kultūros vertybes, biologinę įvairovę, priimtus LR Atsinaujinančių išteklių energetikos įstatymo pakeitimus po Seimo patvirtinto „Proveržio paketo“ ir kt.) bei „nulinė“ alternatyva, kuri atspindi esamą aplinkos būklę. ***PŪV vietos ypatumai:*** Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. PŪV vieta planuojama atokiau nuo urbanizuotų/urbanizuojamų teritorijų: rekreacinės, gyvenamosios, visuomeninės paskirties bei pramonės ir sandėliavimo teritorijų. Artimiausia tankiau apgyvendinta teritorija – 1,5 km (nuo VE4) į šiaurę yra Kuigalių miestelis. PŪV teritorija yra toli nuo rekreacinių, kurortinių, visuomenės paskirties ir kt. teritorijų atžvilgiu. Artimiausias gyvenamasis pastatas, nuo VE10 nutolęs ~ 628 m. Atstumas nuo VE įrengimui analizuojamų vietų iki saugomų ir „Natura 2000“ teritorijų ribų: Labūnavos miškas (LTKEDB001) – paukščių apsaugai svarbi teritorija (PAST), nuo artimiausios VE nutolęs apie 0,56 km vakarų kryptimi. Atstumas nuo VE iki registruoto kultūros paveldo objekto – Normainėlių piliakalnis su Zomkumi (33276) – 1,73 km šiaurės rytų kryptimi. Atstumas iki artimiausios kaimyninės valstybės – Baltarusijos nuo VE Nr. 22 nustatytas 109,04 km. **PAV subjektai:** Jonavos r. savivaldybės administracija, Kauno visuomenės sveikatos centras, Kauno apskrities priešgaisrinė gelbėjimo valdyba, Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys, Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos. **PAV atlieka ir sprendimą dėl PŪV poveikio aplinkai priima Aplinkos apsaugos agentūra** (toliau –AAA) (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. p. aaa@gamta.lt). Visuomenė teikia pasiūlymus dėl pradėto PAV (įskaitant galimybę užduoti klausimus ir gauti informaciją) AAA ir turi teisę teikti pasiūlymus PAV dokumentų rengėjui arba PŪV organizatoriui per 10 darbo dienų nuo pranešimo apie PAV pradžią paskelbimo AAA interneto svetainėje (https://aaa.lrv.lt/) dienos, terminą skaičiuojant nuo kitos dienos jį paskelbus. Atlikus PAV, AAA priima sprendimą dėl PŪV poveikio aplinkai. Jeigu AAA priima sprendimą dėl PŪV poveikio aplinkai, kad veikla atitinka aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimus ir nedarys reikšmingo neigiamo poveikio aplinkai, ši PŪV gali būti vykdoma. Jeigu AAA priima sprendimą dėl PŪV poveikio aplinkai, kad PŪV neatitinka aplinkos apsaugos, visuomenės sveikatos, nekilnojamojo kultūros paveldo apsaugos, gaisrinės saugos ir civilinės saugos teisės aktų reikalavimų ir darys reikšminga neigiamą poveikį aplinkai, įstatymuose įtvirtinti leidimai negali būti išduodami ir tokia veikla negali būti vykdoma. **Situacijos žemėlapiai** https://infraplanas.lt/pranesimas-apie-vejo-elektriniu-parko-jonavos-r-sav-irengimo-ir-eksploatacijos-poveikio-aplinkai-vertinimo-pradzia/

Visuomenės informavimas

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
5.	AAA internetiniame puslapyje www.gamta.lt nuorodoje „Pranešimai apie poveikio aplinkai vertinimo pradžią	2023-10-19	 https://docs.google.com/spreadsheets/d/1r5q6rPjSL6eF2c08LfIaym5t3wwL9nZ-/edit#gid=1181151303

4. 2023 m. Pranešimai apie poveikio aplinkai vertinimo pradžią

	A	B	C	D	E
8	Kauno apskritis				
9	2023-07-24	A-Geoinvest, UAB	Vėjo elektrinių parkas Kauno r. sav. Zapyškio sen. Vilemų k. (unik. Nr.: 4400-1834-8806, 4400-1834-9083, 4400-1834-9229, 4400-1834-9340) statyba ir eksploatavimas	Kauno r. sav., Zapyškio sen. Vilemų k. (unik. Nr.: 4400-1834-8806, 4400-1834-9083, 4400-1834-9229, 4400-1834-9340)	Pranešimas apie PAV pradžią
10	2023-08-28	UAB „INIKTI"	Pavienių vėjo elektrinių statyba ir eksploatacija, Kauno apskr., Jonavos r. sav., Kulvos sen., Bešių, Čiūdų, Trakų, Vanagiškių k.,	Kauno apskr., Jonavos r. sav., Kulvos sen., Bešių, Čiūdų, Trakų, Vanagiškių k., sklypų kad. Nr. 4615/0001:123, 4615/0006:593, 4615/0002:51, 4615/0001:13, 4615/0001:21, 4615/0001:6, 4615/0002:244, 4615/0002:2, 4615/0006:607, 4605/0001:41, 4615/0001:235, 4605/0001:183	Pranešimas apie PAV pradžią
11					Žemėlapis
12	2023-09-07	AB „Achema"	Granuliuotų nitratinių trąšų (KAN, KSAN, AN, ASN) gamybos agregato statyba ir veikla AB „Achema" gamykloje Jonalaukio k., 1, Jonavos r. sav.	Jonalaukio k. 1, Ruklos sen., Jonavos r. sav., Kauno apskritis, AB „Achema" gamykloje, sklypo unikalus Nr. 4625-0001-0001	Pranešimas apie PAV pradžią
13					Žemėlapis
14	2023-10-19	UAB „Ignitis renewables projektai"	Vėjo elektrinių parko įrengimas ir eksploatacija	Jonavos r. sav., Žeimių sen., Pėdžių, Kuigalių, Barsukėnės, Liegkalnio, Blauzdžių, Svalkenių, Aklių, Normainėlių kaimuose bei Kulvos sen. Jonkučių kaime	Pranešimas apie PAV pradžią
15					

3.2 Priedėlis. Informavimas apie parengtą PAV ataskaitą

VISUOMENĖS INFORMAVIMO APIE VIEŠĄ VISUOMENĖS SUPAŽINDINIMĄ SU „VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS“ POVEIKIO APLINKAI VERTINIMO (PAV) ATASKAITA
SUVESTINĖ

Informacija paskelbta:

1. Jonavos rajono laikraštyje „Alio Jonava“ 2023-11-17;
2. Kėdainių rajono laikraštyje „Rinkos aikštė“ 2023-11-17;
3. Jonavos rajono savivaldybės skelbimų lentoje ir internetiniame puslapyje 2023-11-17;
4. Kėdainių rajono savivaldybės skelbimų lentoje ir internetiniame puslapyje 2023-11-17;
5. Žeimių seniūnijos skelbimų lentoje 2023-11-16;
6. Kulvos seniūnijos skelbimų lentoje 2023-11-16;
7. Pelėdnagių seniūnijos skelbimų lentoje 2023-11-16;
8. Dokumento rengėjo UAB „Infraplanas“ internetiniame puslapyje 2023-11-16;
9. Atsakingosios institucijos – Aplinkos apsaugos agentūros internetiniame puslapyje www.gamta.lt „Informacija apie parengtas planuojamos ūkinės veiklos PAV ataskaitas“ - 2023-11-17.

Skelbimo tekstas:

INFORMACIJA APIE VIEŠĄ VISUOMENĖS SUPAŽINDINIMĄ SU

„Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“

POVEIKIO APLINKAI VERTINIMO ATASKAITA

Planuojamos ūkinės veiklos organizatorius: UAB „Ignitis renewables projektai“, įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. +370 625 06 382, el. LTWF03@ignitis.lt;

Poveikio aplinkai vertinimo dokumentų rengėjas: UAB „Infraplanas“; adresas: Inovacijų g. 3, Biruliškių k., Kauno r. sav.; tel., el. paštas: +370 621 66 746 ; info@infraplanas.lt;

PŪV pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija;

PŪV vieta: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. Vėjo elektrinių parką planuojama įrengti Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime;

PAV subjektai, kurie pagal kompetenciją teikia išvadas dėl PAV ataskaitos ir įstatymų nustatyta tvarka teikia visuomenei informaciją apie galimą planuojamos ūkinės veiklos poveikį aplinkai:

Jonavos r. savivaldybės administracija (Žeimių g. 13, Jonava, tel.: +370 349 50 154, el. p.: administracija@jonava.lt), Kėdainių r. sav. (J. Basanavičiaus g. 36, Kėdainiai, tel.: +370 347 69 550, el. p.: administracija@kedainiai.lt), Kauno visuomenės sveikatos centras (K. Petrausko g. 24, Kaunas, tel.: +370 37 33 16 88, el. p.: kaunas@nvsc.lt), PAGD prie Vidaus reikalų ministerijos Kauno priešgaisrinė gelbėjimo valdyba (Nemuno g. 2-1, Kaunas, tel.: +370 37 23 37, el. p.: kaunas.pgv@vpgt.lt), Kultūros

paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys (Rotušės a. 29 Kaunas , tel.: +370 37 22 86 41, el. p.: kaunas@kpd.lt), Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos (Antakalnio g. 25, Vilnius, tel.: +370 659 29 483, el. p.: vstt@vstt.lt).

Sprendimą dėl planuojamos ūkinės veiklos poveikio aplinkai priima Aplinkos apsaugos agentūra (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. paštas aaa@gamta.lt).

Internetinė nuoroda į paskelbtą poveikio aplinkai vertinimo ataskaitą: UAB :"Infraplanas" internetiniame puslapyje, skiltyje „Naujienos" - https://infraplanas.lt/informacija-apie-vejo-elektriniu-parko-jonavos-r-sav-irengimo-ir-eksploatacijos-poveikio-aplinkai-vertinimo-ataskaita-pav-bei-viesa-visuomenes-supazindinimo-susirinkima/.

Poveikio aplinkai vertinimo ataskaita viešinama: nuo 2023-11-17 iki 2023-12-19 (imtinai) Kulvos seniūnijos patalpose (Tarybų g. 2, Kulvos k., Jonavos r.), tel. +370 349 49 470; Žeimių seniūnijos patalpose (Kauno g. 47, Žeimių mstl., Jonavos r.), tel. +370 349 78 048; Pelėdnagių seniūnijos patalpose (V. Koncevičiaus g. 3, Pelėdnagiai, Kėdainių r. sav.), tel. +370 347 67 601; seniūnijų darbo dienomis bei darbo valandomis. Taip pat ir UAB „Infraplanas" būstinėje (Inovacijų g. 3, Biruliškių k., Kauno r. sav.), darbo dienomis ir darbo valandomis tel. +370 621 66 746.

Visuomenė teikia pasiūlymus (įskaitant galimybę užduoti klausimus ir gauti informaciją) dėl poveikio aplinkai vertinimo ataskaitos ir atliekamo poveikio aplinkai vertinimo Aplinkos apsaugos agentūrai ir turi teisę teikti juos poveikio aplinkai vertinimo dokumentų rengėjui iki: 2023-12-19 ir supažindinimo su ataskaita metu.

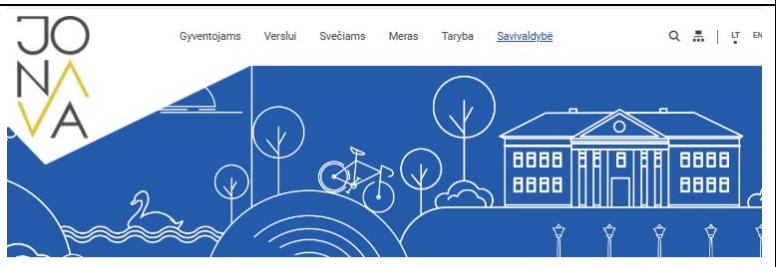
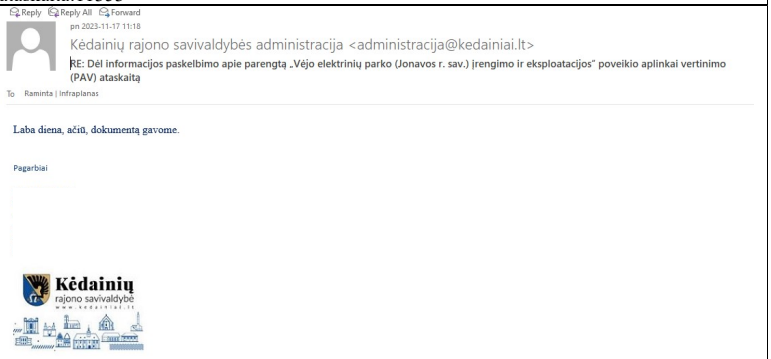
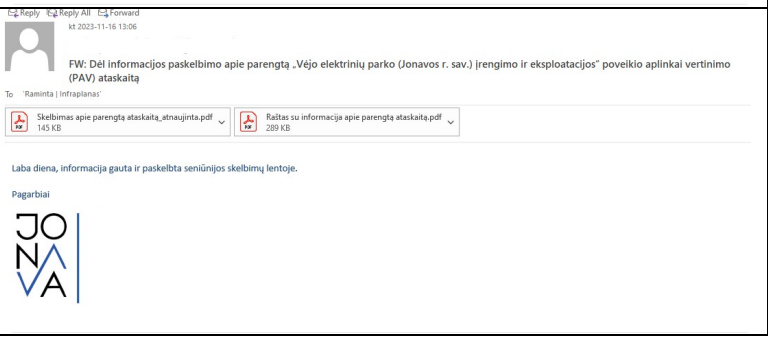
Viešas visuomenės supažindinimas su poveikio aplinkai vertinimo ataskaita vyks hibridiniu būdu (gyvai ir tiesiogiai transliuojant internetu):

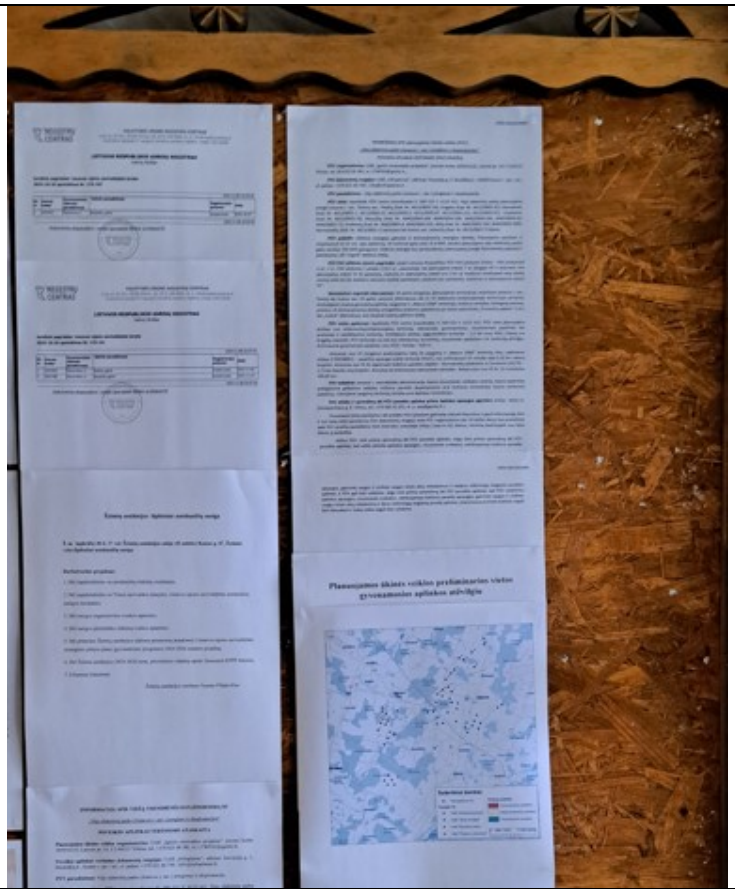
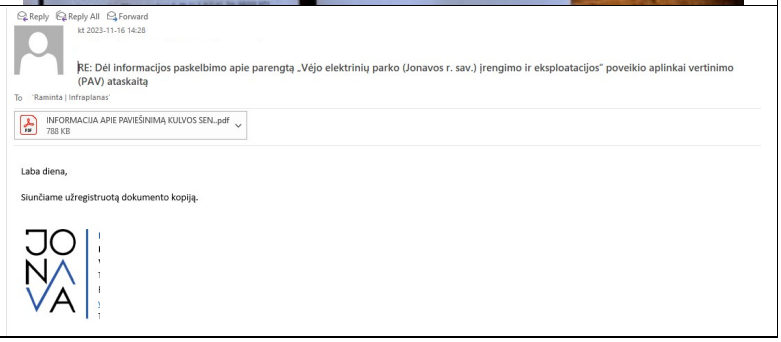
- **2023-12-19 18:00 val.** Jonavos r. sav. Barupės mokykla-daugiafunkcis centro salėje (Sodų g. 1A, Kuigalių k., Jonava r. sav.) susirinkimas įvyks gyvai ir tiesiogiai transliuojant internetu (prisijungimo nuoroda: https://us02web.zoom.us/j/87285150061).
- **2023-12-19 18:00 val.** suinteresuotos visuomenės atstovams atvykus į Žeimių, Kulvos bei Pelėdnagių seniūnijų patalpas (aukščiau nurodytais adresais) bus suteiktos techninės galimybės nuotoliniu būdu dalyvauti viešame visuomenės supažindinime su poveikio aplinkai vertinimo ataskaita, pateikti klausimus ir išgirsti atsakymus.

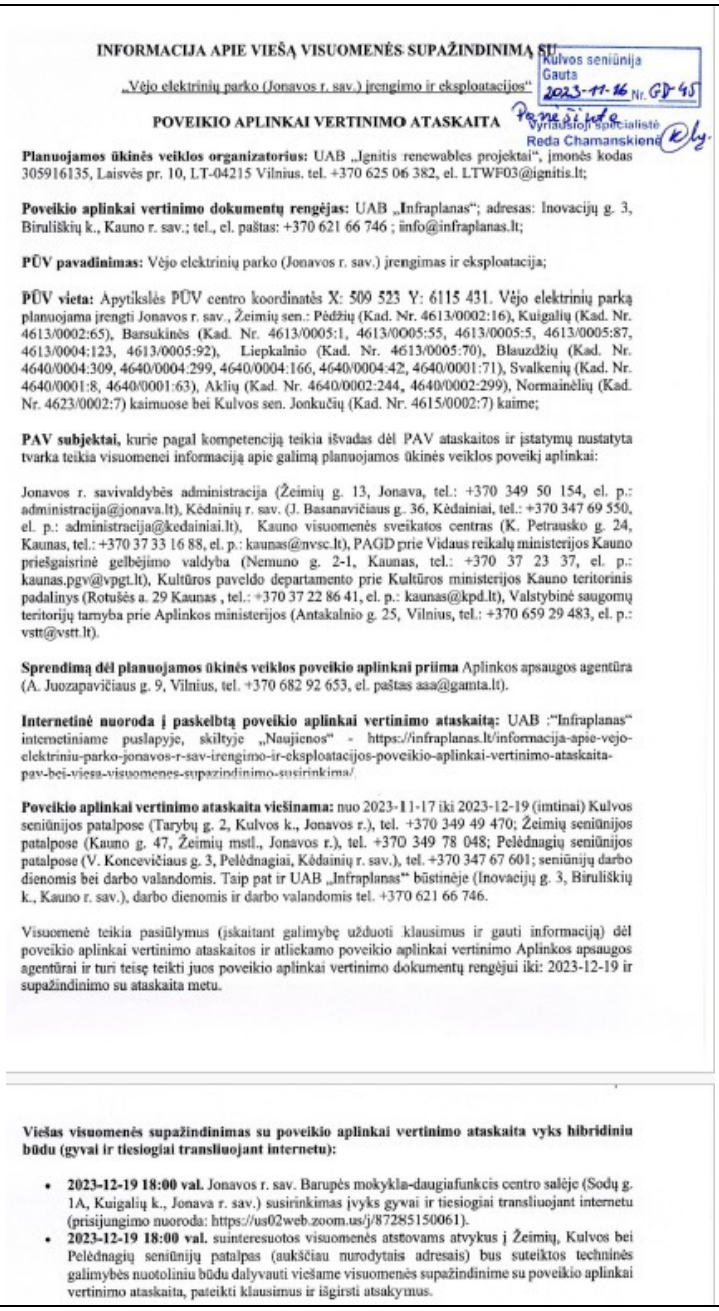
Skelbimų kopijos:

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
1.	Jonavos rajono laikraštyje „Alio Jonava“	2023-11-17	
2.	Kėdainių rajono laikraštyje „Rinkos aikštė“	2023-11-17	

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
3.	Jonavos rajono savivaldybės skelbimų lentoje ir internetiniame puslapyje	2023-11-17	

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
			 Gyventojams Verslui Svečiams Meras Taryba Savivaldybė **Informacija apie viešą visuomenės supažindinimą su „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“ poveikio aplinkai vertinimo ataskaita** 2023-11-17 Planuojamos ūkinės veiklos organizatorius: UAB „Ignitis renewables projektai“, įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. +370 625 06 382, el. LTWF03@ignitis.lt; Poveikio aplinkai vertinimo dokumentų rengėjas: UAB „Infraplanas“; adresas: Inovacijų g. 3, Biruliškių k., Kauno r. sav.; tel., el. paštas: +370 621 66 746 ; info@infraplanas.lt; PŪV pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija; PŪV vieta: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. Vėjo elektrinių parką planuojama įrengti Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime; PAV subjektai, kurie pagal kompetenciją teikia išvadas dėl PAV ataskaitos ir įstatymų nustatyta tvarka teikia visuomenei informaciją apie galimą planuojamos ūkinės veiklos poveikį aplinkai: Jonavos r. savivaldybės administracija (Žeimių g. 13, Jonava, tel.: +370 349 50 154, el. p.: administracija@jonava.lt), Kėdainių r. sav. (J. Basanavičiaus g. 36, Kėdainiai, tel.: +370 347 69 550, el. p.: administracija@kedainiai.lt), Kauno visuomenės sveikatos centras (K. Petrausko g. 24, Kaunas, tel.: +370 37 33 16 88, el. p.: kaunas@nvsc.lt), PAGD prie Vidaus reikalų ministerijos Kauno priešgaisrinė gelbėjimo valdyba (Nemuno g. 2-1, Kaunas, tel.: +370 37 23 37, el. p.: kaunas.pgv@vpgt.lt), Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys (Rotušės a. 29 Kaunas , tel.: +370 37 22 86 41, el. p.: kaunas@kpd.lt), Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos (Antakalnio g. 25, Vilnius, tel.: +370 659 29 483, el. p.:p vstt@vstt.lt). Sprendimą dėl planuojamos ūkinės veiklos poveikio aplinkai priima Aplinkos apsaugos agentūra (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. paštas aaa@gamta.lt). Internetinė nuoroda į paskelbtą poveikio aplinkai vertinimo ataskaitą: UAB „Infraplanas“ interneti niame puslapyje, skiltyje „Naujienos“ - https://infraplanas.lt/informacija-apie-vejo-elektriniu-parko-jonavos-r-sav-irengimo-ir- ksploatacijos-poveikio-aplinkai-vertinimo-ataskaita-pav-bei-viesa-visuomenes-supazindinimo-susirinkima/. Poveikio aplinkai vertinimo ataskaita viešinama: nuo 2023-11-17 iki 2023-12-19 (imtinai) Kulvos seniūnijos patalpose (Tarybų g. 2, Kulvos k., Jonavos r.), tel. +370 349 49 470; Žeimių seniūnijos patalpose (Kauno g. 47, Žeimių mstl., Jonavos r.), tel. +370 349 78 048; Pelėdnagių seniūnijos patalpose (V. Koncevičiaus g. 3, Pelėdnagiai, Kėdainių r. sav.), tel. +370 347 67 601; seniūnijų darbo dienomis bei darbo valandomis. Taip pat ir UAB „Infraplanas“ būstinėje (Inovacijų g. 3, Biruliškių k., Kauno r. sav.), darbo dienomis ir darbo valandomis tel. +370 621 66 746. Visuomenė teikia pasiūlymus (įskaitant galimybę užduoti klausimus ir gauti informaciją) dėl poveikio aplinkai vertinimo ataskaitos ir atliekamo poveikio aplinkai vertinimo Aplinkos apsaugos agentūrai ir turi teisę teikti juos poveikio aplinkai vertinimo dokumentų rengėjui iki: 2023-12-19 ir supažindinimo su ataskaita metu. Viešas visuomenės supažindinimas su poveikio aplinkai vertinimo ataskaita vyks hibridiniu būdu (gyvai ir tiesiogiai transliuojant internetu): • 2023-12-19 18:00 val. Jonavos r. sav. Barupės mokykla-daugiafunkcis centro salėje (Sodų g. 1A, Kuigalių k., Jonava r. sav.) susirinkimas įvyks gyvai ir tiesiogiai transliuojant internetu (prisijungimo nuoroda: https://us02web.zoom.us/j/87285150061). • 2023-12-19 18:00 val. suinteresuotos visuomenės atstovams atvykus į Žeimių, Kulvos bei Pelėdnagių seniūnijų patalpas (aukščiau nurodytais adresais) bus suteiktos techninės galimybės nuotoliniu būdu dalyvauti viešame visuomenės supažindinime su poveikio aplinkai vertinimo ataskaita, pateikti klausimus ir išgirsti atsakymus. https://www.jonava.lt/veiklos-sritys/teritoriju-planavimas-statyba/skelbimai/1683/informacija-apie-viesa-visuomenes-supazindinima-su-vejo-elektriniu-parko-jonavos-r.-sav.-irengimo-ir-eksploatacijos-poveikio-aplinkai-vertinimo-ataskaita:11353
	Kėdainių r. sav. skelbimų lentoje ir internetiniame puslapyje	2023-11-17	 Reply Reply All Forward pn 2023-11-17 11:18 Kėdainių rajono savivaldybės administracija <administracija@kedainiai.lt> RE: Dėl informacijos paskelbimo apie parengtą „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“ poveikio aplinkai vertinimo (PAV) ataskaitą To Raminta | Infraplanas Laba diena, ačiū, dokumentą gavome. Pagarbiai Kėdainių rajono savivaldybė
4.	Žeimių seniūnijos skelbimų lentoje	2023-11-16	 Reply Reply All Forward kt 2023-11-16 13:06 FW: Dėl informacijos paskelbimo apie parengtą „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“ poveikio aplinkai vertinimo (PAV) ataskaitą To 'Raminta | Infraplanas' Skelbimas apie parengtą ataskaitą_atnaujinta.pdf 145 KB Raštas su informacija apie parengtą ataskaitą.pdf 289 KB Laba diena, informacija gauta ir paskelbta seniūnijos skelbimų lentoje. Pagarbiai

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
			
5.	Kulvos seniūnijos skelbimų lentoje	2023-11-16	 Reply Reply All Forward kt 2023-11-16 14:28 RE: Dėl informacijos paskelbimo apie parengtą „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“ poveikio aplinkai vertinimo (PAV) ataskaitą To 'Raminta | Infraplanas' INFORMACIJA APIE PAVIEŠINIMĄ KULVOS SEN..pdf 788 KB Laba diena, Siunčiame užregistruotą dokumento kopiją. JONAVA

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
			

INFORMACIJA APIE VIEŠĄ VISUOMENĖS SUPAŽINDINIMĄ SU

„Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos"

POVEIKIO APLINKAI VERTINIMO ATASKAITA

Kulvos seniūnija
Gauta
2023-11-16 Nr. GD-45
Paneišienė
Vyriausioji specialistė
Reda Chamanskienė

Planuojamos ūkinės veiklos organizatorius: UAB „Ignitis renewables projektai", įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. +370 625 06 382, el. LTWF03@ignitis.lt;

Poveikio aplinkai vertinimo dokumentų rengėjas: UAB „Infraplanas"; adresas: Inovacijų g. 3, Biruliškių k., Kauno r. sav.; tel., el. paštas: +370 621 66 746 ; info@infraplanas.lt;

PŪV pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija;

PŪV vieta: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. Vėjo elektrinių parką planuojama įrengti Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime;

PAV subjektai, kurie pagal kompetenciją teikia išvadas dėl PAV ataskaitos ir įstatymų nustatyta tvarka teikia visuomenei informaciją apie galimą planuojamos ūkinės veiklos poveikį aplinkai:

Jonavos r. savivaldybės administracija (Žeimių g. 13, Jonava, tel.: +370 349 50 154, el. p.: administracija@jonava.lt), Kėdainių r. sav. (J. Basanavičiaus g. 36, Kėdainiai, tel.: +370 347 69 550, el. p.: administracija@kedainiai.lt), Kauno visuomenės sveikatos centras (K. Petrausko g. 24, Kaunas, tel.: +370 37 33 16 88, el. p.: kaunas@nvsc.lt), PAGD prie Vidaus reikalų ministerijos Kauno priešgaisrinė gelbėjimo valdyba (Nemuno g. 2-1, Kaunas, tel.: +370 37 23 37, el. p.: kaunas.pgv@vpgt.lt), Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys (Rotušės a. 29 Kaunas , tel.: +370 37 22 86 41, el. p.: kaunas@kpd.lt), Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos (Antakalnio g. 25, Vilnius, tel.: +370 659 29 483, el. p.: vstt@vstt.lt).

Sprendimą dėl planuojamos ūkinės veiklos poveikio aplinkai priima Aplinkos apsaugos agentūra (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. paštas aaa@gamta.lt).

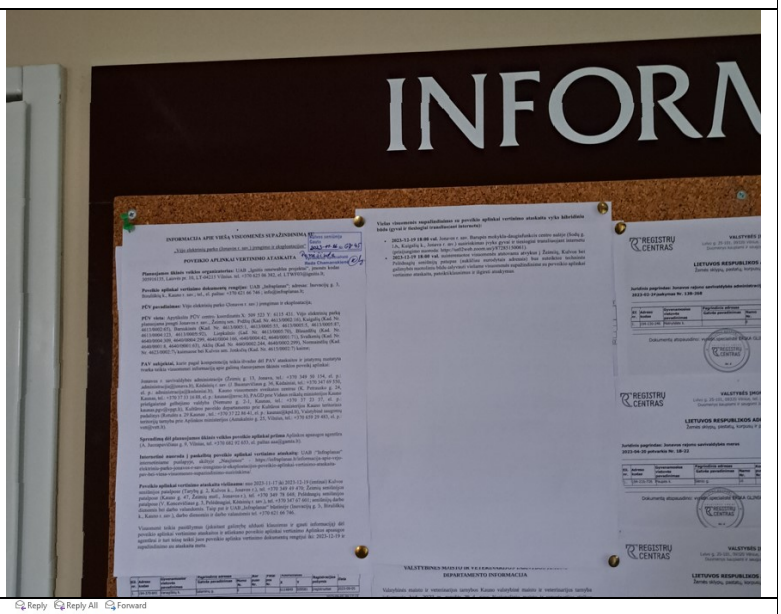
Internetinė nuoroda į paskelbtą poveikio aplinkai vertinimo ataskaitą: UAB :"Infraplanas" internetiniame puslapyje, skiltyje „Naujienos" - https://infraplanas.lt/informacija-apie-vejo-elektriniu-parko-jonavos-r-sav-irengimo-ir-eksploatacijos-poveikio-aplinkai-vertinimo-ataskaita-pav-bei-viesa-visuomenes-supazindinimo-susirinkima/

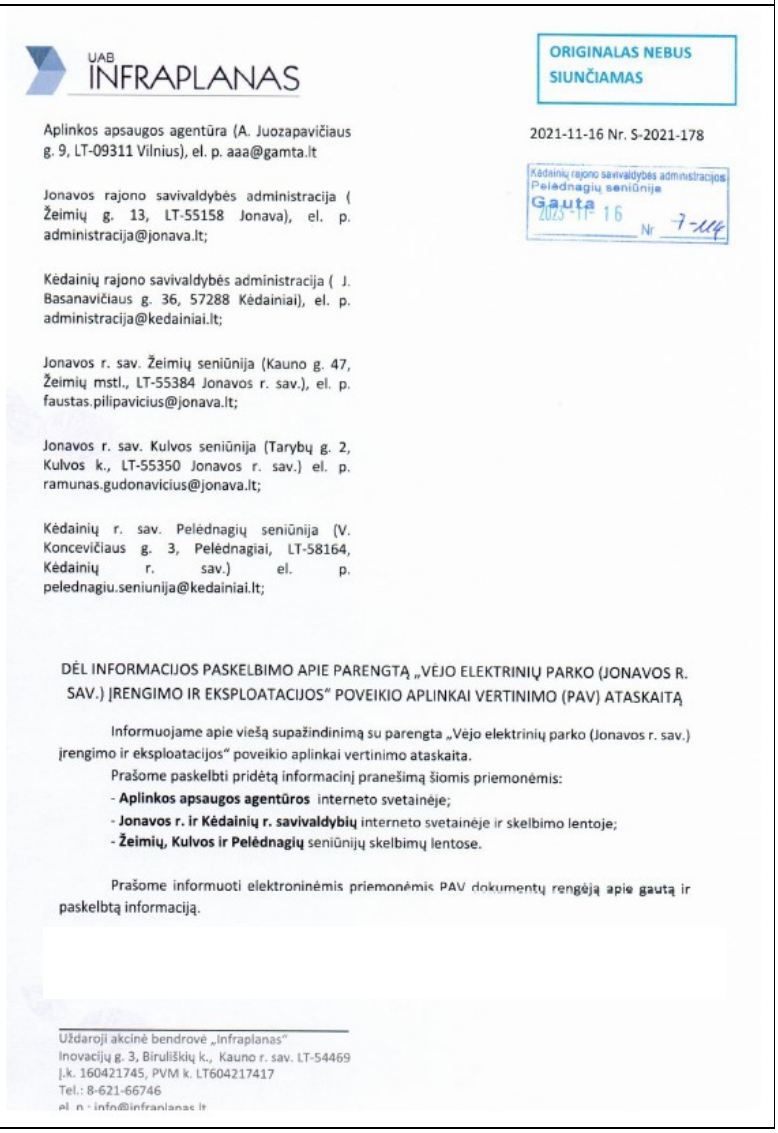
Poveikio aplinkai vertinimo ataskaita viešinama: nuo 2023-11-17 iki 2023-12-19 (imtinai) Kulvos seniūnijos patalpose (Tarybų g. 2, Kulvos k., Jonavos r.), tel. +370 349 49 470; Žeimių seniūnijos patalpose (Kauno g. 47, Žeimių mstl., Jonavos r.), tel. +370 349 78 048; Pelėdnagių seniūnijos patalpose (V. Koncevičiaus g. 3, Pelėdnagiai, Kėdainių r. sav.), tel. +370 347 67 601; seniūnijų darbo dienomis bei darbo valandomis. Taip pat ir UAB „Infraplanas" būstinėje (Inovacijų g. 3, Biruliškių k., Kauno r. sav.), darbo dienomis ir darbo valandomis tel. +370 621 66 746.

Visuomenė teikia pasiūlymus (įskaitant galimybę užduoti klausimus ir gauti informaciją) dėl poveikio aplinkai vertinimo ataskaitos ir atliekamo poveikio aplinkai vertinimo Aplinkos apsaugos agentūrai ir turi teisę teikti juos poveikio aplinkai vertinimo dokumentų rengėjui iki: 2023-12-19 ir supažindinimo su ataskaita metu.

Viešas visuomenės supažindinimas su poveikio aplinkai vertinimo ataskaita vyks hibridiniu būdu (gyvai ir tiesiogiai transliuojant internetu):

- **2023-12-19 18:00 val.** Jonavos r. sav. Barupės mokykla-daugiafunkcis centro salėje (Sodų g. 1A, Kuigalių k., Jonava r. sav.) susirinkimas įvyks gyvai ir tiesiogiai transliuojant internetu (prisijungimo nuoroda: https://us02web.zoom.us/j/87285150061).
- **2023-12-19 18:00 val.** suinteresuotos visuomenės atstovams atvykus į Žeimių, Kulvos bei Pelėdnagių seniūnijų patalpas (aukščiau nurodytais adresais) bus suteiktos techninės galimybės nuotoliniu būdu dalyvauti viešame visuomenės supažindinime su poveikio aplinkai vertinimo ataskaita, pateikti klausimus ir išgirsti atsakymus.

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
			
6.	Pelėdnagių seniūnijos skelbimų lentoje	2023-11-16	Reply Reply All Forward pn 2023-11-17 11:18 Pelėdnagių Seniūnija <pelednagiu.seniunija@kedainiai.lt> RE: Dėl informacijos paskelbimo apie parengtą „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos" poveikio aplinkai vertinimo (PAV) ataskaitą To 'Raminta | Infraplanas' Laba diena, Informacija gauta ir paviešinta Pelėdnagių seniūnijos skelbimų lentoje 2023-11-16. Šis laiškas, įskaitant jo priedus yra konfidencialus, gali būti riboto naudojimo ir yra skirtas tik tam asmeniui, kuriam, jis adresuotas. Panaudoti, paviešinti ar kopijuoti šį laišką ar laiško dalį ne pagal jo tiksliną paskirtį yra draudžiama. Ne apie Jums skirto laiško gavimą, prašome nedelsiant informuoti siuntėją el. paštu ir ištrinti laišką bei visas jo kopijas įskaitant visus laiško priedus iš savo kompiuterio. Atsiprašome už sudarytus nepatogumus. Kėdainių rajono savivaldybės administracijos Pelėdnagių seniūnijos vyriausioji specialistė Tel. (8 347) 67601, 8 600 25770 El. paštas: laimute.lukoseviciene@kedainiai.lt V. Koncevičiaus g. 3, Pelėdnagių k., 58164 Kėdainių r. LAIKAS Į KĖDAINIUS!

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
			

UAB INFRAPLANAS

ORIGINALAS NEBUS SIUNČIAMAS

2021-11-16 Nr. S-2021-178

Kėdainių rajono savivaldybės administracijos Pelėdnagių seniūnija
Gauta 2021 -11- 16 Nr. 7-114

Aplinkos apsaugos agentūra (A. Juozapavičiaus g. 9, LT-09311 Vilnius), el. p. aaa@gamta.lt

Jonavos rajono savivaldybės administracija (Žeimių g. 13, LT-55158 Jonava), el. p. administracija@jonava.lt;

Kėdainių rajono savivaldybės administracija (J. Basanavičiaus g. 36, 57288 Kėdainiai), el. p. administracija@kedainiai.lt;

Jonavos r. sav. Žeimių seniūnija (Kauno g. 47, Žeimių mstl., LT-55384 Jonavos r. sav.), el. p. faustas.pilipavicius@jonava.lt;

Jonavos r. sav. Kulvos seniūnija (Tarybų g. 2, Kulvos k., LT-55350 Jonavos r. sav.) el. p. ramunas.gudonavicius@jonava.lt;

Kėdainių r. sav. Pelėdnagių seniūnija (V. Koncevičiaus g. 3, Pelėdnagiai, LT-58164, Kėdainių r. sav.) el. p. pelednagiu.seniunija@kedainiai.lt;

DĖL INFORMACIJOS PASKELBIMO APIE PARENGTĄ „VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS" POVEIKIO APLINKAI VERTINIMO (PAV) ATASKAITĄ

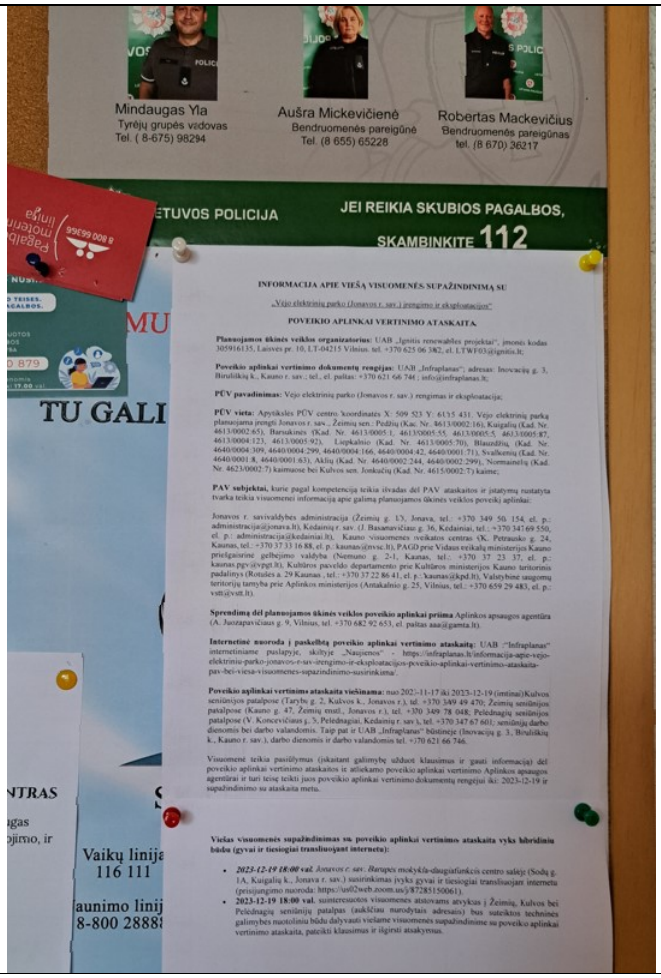
Informuojame apie viešą supažindinimą su parengta „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos" poveikio aplinkai vertinimo ataskaita.

Prašome paskelbti pridėtą informacinį pranešimą šiomis priemonėmis:

- **Aplinkos apsaugos agentūros** interneto svetainėje;
- **Jonavos r. ir Kėdainių r. savivaldybių** interneto svetainėje ir skelbimo lentoje;
- **Žeimių, Kulvos ir Pelėdnagių** seniūnijų skelbimų lentose.

Prašome informuoti elektroninėmis priemonėmis PAV dokumentų rengėją apie gautą ir paskelbtą informaciją.

Uždaroji akcinė bendrovė „Infraplanas"
Inovacijų g. 3, Biruliškių k., Kauno r. sav. LT-54469
Į.k. 160421745, PVM k. LT604217417
Tel.: 8-621-66746
el. p.: info@infraplanas.lt

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
			

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
7.	Dokumento rengėjo UAB „Infraplanas“ internetiniame puslapyje	2023-11-16	 **Naujienos** 2023-11-16 **Informacija apie „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“ poveikio aplinkai vertinimo ataskaitą (PAV) bei viešą visuomenės supažindinimo susirinkimą** **INFORMACIJA APIE VIEŠĄ VISUOMENĖS SUPAŽINDINIMĄ SU „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“ POVEIKIO APLINKAI VERTINIMO ATASKAITA** **Planuojamos ūkinės veiklos organizatorius:** UAB „Ignitis renewables projektai“, įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. +370 625 06 382, el. LTWF03@ignitis.lt; **Poveikio aplinkai vertinimo dokumentų rengėjas:** UAB „Infraplanas“; adresas: Inovacijų g. 3, Biruliškių k., Kauno r. sav.; tel., el. paštas: +370 621 66 746 ; info@infraplanas.lt; **PŪV pavadinimas:** Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija; **PŪV vieta:** Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. Vėjo elektrinių parką planuojama įrengti Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime; **PAV subjektai**, kurie pagal kompetenciją teikia išvadas dėl PAV ataskaitos ir įstatymų nustatyta tvarka teikia visuomenei informaciją apie galimą planuojamos ūkinės veiklos poveikį aplinkai: Jonavos r. savivaldybės administracija (Žeimių g. 13, Jonava, tel.: +370 349 50 154, el. p.: administracija@jonava.lt), Kėdainių r. sav. (J. Basanavičiaus g. 36, Kėdainiai, tel.: +370 347 69 550, el. p.: administracija@kedainiai.lt), Kauno visuomenės sveikatos centras (K. Petrausko g. 24, Kaunas, tel.: +370 37 33 16 88, el. p.: kaunas@nvsc.lt), PAGD prie Vidaus reikalų ministerijos Kauno priešgaisrinė gelbėjimo valdyba (Nemuno g. 2-1, Kaunas, tel.: +370 37 23 37, el. p.: kaunas.pgv@vpgt.lt), Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys (Rotušės a. 29 Kaunas , tel.: +370 37 22 86 41, el. p.: kaunas@kpd.lt), Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos (Antakalnio g. 25, Vilnius, tel.: +370 659 29 483, el. p.: vstt@vstt.lt). **Sprendimą dėl planuojamos ūkinės veiklos poveikio aplinkai priima** Aplinkos apsaugos agentūra (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. paštas aaa@gamta.lt). **Internetinė nuoroda į paskelbtą poveikio aplinkai vertinimo ataskaitą:** UAB :“Infraplanas“ internetiniame puslapyje, skiltyje „Naujienos“ – https://infraplanas.lt/informacija-apie-vejo-elektriniu-parko-jonavos-r-sav-irengimo-ir-eksploatacijos-poveikio-aplinkai-vertinimo-ataskaita-pav-bei-viesa-visuomenes-supazindinimo-susirinkima/. **Poveikio aplinkai vertinimo ataskaita viešinama:** nuo 2023-11-17 iki 2023-12-19 (imtinai) Kulvos seniūnijos patalpose (Tarybų g. 2, Kulvos k., Jonavos r.), tel. +370 349 49 470; Žeimių seniūnijos patalpose (Kauno g. 47, Žeimių mstl., Jonavos r.), tel. +370 349 78 048; Pelėdnagių seniūnijos patalpose (V. Koncevičiaus g. 3, Pelėdnagiai, Kėdainių r. sav.), tel. +370 347 67 601; seniūnijų darbo dienomis bei darbo valandomis. Taip pat ir UAB „Infraplanas“ būstinėje (Inovacijų g. 3, Biruliškių k., Kauno r. sav.), darbo dienomis ir darbo valandomis tel. +370 621 66 746. Visuomenė teikia pasiūlymus (įskaitant galimybę užduoti klausimus ir gauti informaciją) dėl poveikio aplinkai vertinimo ataskaitos ir atliekamo poveikio aplinkai vertinimo Aplinkos apsaugos agentūrai ir turi teisę teikti juos poveikio aplinkai vertinimo dokumentų rengėjui iki: 2023-12-19 ir supažindinimo su ataskaita metu. **Viešas visuomenės supažindinimas su poveikio aplinkai vertinimo ataskaita vyks hibridiniu būdu (gyvai ir tiesiogiai transliuojant internetu):** - **2023-12-19 18:00 val.** Jonavos r. sav. Barupės mokykla-daugiafunkcis centro salėje (Sodų g. 1A, Kuigalių k., Jonava r. sav.) susirinkimas įvyks gyvai ir tiesiogiai transliuojant internetu (prisijungimo nuoroda: https://us02web.zoom.us/j/87285150061). - **2023-12-19 18:00 val.** suinteresuotos visuomenės atstovams atvykus į Žeimių, Kulvos bei Pelėdnagių seniūnijų patalpas (aukščiau nurodytais adresais) bus suteiktos techninės galimybės nuotoliniu būdu dalyvauti viešame visuomenės supažindinime su poveikio aplinkai vertinimo ataskaita, pateikti klausimus ir išgirsti atsakymus. **Su parengta, vėjo elektrinių parko, PAV ataskaita galite susipažinti čia** Ataskaitos priedai: **1 Priedas** **3.1 priedėlis** **4 Priedas** **5.3 priedėlis** **5.4 priedėlis** https://infraplanas.lt/informacija-apie-vejo-elektriniu-parko-jonavos-r-sav-irengimo-ir-eksploatacijos-poveikio-aplinkai-vertinimo-ataskaita-pav-bei-viesa-visuomenes-supazindinimo-susirinkima/

Eil. Nr.	Informavimo priemonė	Paskelbimo data	Skelbimo kopija
8.	AAA internetiniame puslapyje www.gamta.lt skiltyje „Informacija apie parengtas planuojamos ūkinės veiklos PAV ataskaitas“	2023-11-17	 Reply Reply All Forward kt 2023-11-16 11:51 Registravimas <registravimas@gamta.lt> RE: Dėl informacijos paskelbimo apie parengtą „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“ poveikio aplinkai vertinimo (PAV) ataskaitą To r.survile@infraplanas.lt Jūsų raštas gautas ir užregistruotas, reg. AS-9408 APLINKOS APSAUGOS AGENTŪRA A. Juozapavičiaus g. 9, LT-09311 Vilnius Tel. +370 682 92653 El. paštas aaa@gamta.lt www.gamta.lt Facebook LinkedIn Šioje žinutėje ir/arba jos prieduose pateikiama informacija yra skirta tik nurodytam adresatui ir gali būti konfidenciali. Jeigu ši žinutė pasiekė jus per klaidą, ji negali būti naudojama, platinama, skaitoma, persiunčiama, kopijuojama ar kitaip skleidžiama. Tokiu atveju, prašome šią žinutę ištrinti ir apie tai pranešti siuntėjui elektroniniu paštu.

INFORMACIJA APIE VIEŠĄ VISUOMENĖS SUPAŽINDINIMĄ SU

„Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos“

POVEIKIO APLINKAI VERTINIMO ATASKAITA

Planuojamos ūkinės veiklos organizatorius: UAB „Ignitis renewables projektai“, įmonės kodas 305916135, Laisvės pr. 10, LT-04215 Vilnius. tel. +370 625 06 382, el. LTWF03@ignitis.lt;

Poveikio aplinkai vertinimo dokumentų rengėjas: UAB „Infraplanas“; adresas: Inovacijų g. 3, Biruliškių k., Kauno r. sav.; tel., el. paštas: +370 621 66 746 ; info@infraplanas.lt;

PŪV pavadinimas: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija;

PŪV vieta: Apytikslės PŪV centro koordinatės X: 509 523 Y: 6115 431. Vėjo elektrinių parką planuojama įrengti Jonavos r. sav., Žeimių sen.: Pėdžių (Kad. Nr. 4613/0002:16), Kuigalių (Kad. Nr. 4613/0002:65), Barsukinės (Kad. Nr. 4613/0005:1, 4613/0005:55, 4613/0005:5, 4613/0005:87, 4613/0004:123, 4613/0005:92), Liepkalnio (Kad. Nr. 4613/0005:70), Blauzdžių (Kad. Nr. 4640/0004:309, 4640/0004:299, 4640/0004:166, 4640/0004:42, 4640/0001:71), Svalkenių (Kad. Nr. 4640/0001:8, 4640/0001:63), Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299), Normainėlių (Kad. Nr. 4623/0002:7) kaimuose bei Kulvos sen. Jonkučių (Kad. Nr. 4615/0002:7) kaime;

PAV subjektai, kurie pagal kompetenciją teikia išvadas dėl PAV ataskaitos ir įstatymų nustatyta tvarka teikia visuomenei informaciją apie galimą planuojamos ūkinės veiklos poveikį aplinkai:

Jonavos r. savivaldybės administracija (Žeimių g. 13, Jonava, tel.: +370 349 50 154, el. p.: administracija@jonava.lt), Kėdainių r. sav. (J. Basanavičiaus g. 36, Kėdainiai, tel.: +370 347 69 550, el. p.: administracija@kedainiai.lt), Kauno visuomenės sveikatos centras (K. Petrausko g. 24, Kaunas, tel.: +370 37 33 16 88, el. p.: kaunas@nvsc.lt), PAGD prie Vidaus reikalų ministerijos Kauno priešgaisrinė gelbėjimo valdyba (Nemuno g. 2-1, Kaunas, tel.: +370 37 23 37, el. p.: kaunas.pgv@vpgt.lt), Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis padalinys (Rotušės a. 29 Kaunas , tel.: +370 37 22 86 41, el. p.: kaunas@kpd.lt), Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos (Antakalnio g. 25, Vilnius, tel.: +370 659 29 483, el. p.: vstt@vstt.lt).

Sprendimą dėl planuojamos ūkinės veiklos poveikio aplinkai priima Aplinkos apsaugos agentūra (A. Juozapavičiaus g. 9, Vilnius, tel. +370 682 92 653, el. paštas aaa@gamta.lt).

Internetinė nuoroda į paskelbtą poveikio aplinkai vertinimo ataskaitą: UAB :“Infraplanas“ internetiniame puslapyje, skiltyje „Naujienos“ - https://infraplanas.lt/informacija-apie-vejo-elektriniu-parko-jonavos-r-sav-irengimo-ir-eksploatacijos-poveikio-aplinkai-vertinimo-ataskaita-pav-bei-viesa-visuomenes-supazindinimo-susirinkima/.

Poveikio aplinkai vertinimo ataskaita viešinama: nuo 2023-11-17 iki 2023-12-19 (imtinai) Kulvos seniūnijos patalpose (Tarybų g. 2, Kulvos k., Jonavos r.), tel. +370 349 49 470; Žeimių seniūnijos patalpose (Kauno g. 47, Žeimių mstl., Jonavos r.), tel. +370 349 78 048; Pelėdnagių seniūnijos patalpose (V. Koncevičiaus g. 3, Pelėdnagiai, Kėdainių r. sav.), tel. +370 347 67 601; seniūnijų darbo dienomis bei darbo valandomis. Taip pat ir UAB „Infraplanas“ būstinėje (Inovacijų g. 3, Biruliškių k., Kauno r. sav.), darbo dienomis ir darbo valandomis tel. +370 621 66 746.

Visuomenė teikia pasiūlymus (įskaitant galimybę užduoti klausimus ir gauti informaciją) dėl poveikio aplinkai vertinimo ataskaitos ir atliekamo poveikio aplinkai vertinimo Aplinkos apsaugos agentūrai ir turi teisę teikti juos poveikio aplinkai vertinimo dokumentų rengėjui iki: 2023-12-19 ir supažindinimo su ataskaita metu.

Viešas visuomenės supažindinimas su poveikio aplinkai vertinimo ataskaita vyks hibridiniu būdu (gyvai ir tiesiogiai transliuojant internetu):

- **2023-12-19 18:00 val.** Jonavos r. sav. Barupės mokykla-daugiafunkcis centro salėje (Sodų g. 1A, Kuigalių k., Jonava r. sav.) susirinkimas įvyks gyvai ir tiesiogiai transliuojant internetu (prisijungimo nuoroda: https://us02web.zoom.us/j/87285150061).
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UAB INFRAPLANAS

ORIGINALAS NEBUS SIUNČIAMAS

Jonavos r. sav. Žeimių seniūnija (Kauno g. 47, Žeimių mstl., LT-55384 Jonavos r. sav.), el. p. faustas.pilipavicius@jonava.lt;

Jonavos r. sav. Kulvos seniūnija (Tarybų g. 2, Kulvos k., LT-55350 Jonavos r. sav.) el. p. ramunas.gudonavicius@jonava.lt;

Kėdainių r. sav. Pelėdnagių seniūnija (V. Koncevičiaus g. 3, Pelėdnagiai, LT-58164, Kėdainių r. sav.) el. p. pelednagiu.seniunija@kedainiai.lt

2023-11-15 Nr. S-2023-175

DĖL VIEŠO VISUOMENĖS SUPAŽINDINIMO SU „VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS“ POVEIKIO APLINKAI VERTINIMO ATASKAITOS (PAV) VIEŠO PRISTATYMO

Prašome, Jūsų **pritarimo**, jog Poveikio aplinkai vertinimo ataskaitos **viešas pristatymas 2023-12-19 18:00 val.** vyktų 2023 m. gruodžio 19 d., Jonavos r. sav. Žeimių mokyklos – daugiafunkcinio centro Barupės skyriaus patalpose, adresu Sodų g. 1A, Kuigalių k., Žeimių sen., Jonavos r. sav.

Tuo pačiu prašome suteikti galimybes 2023-12-19 dieną nuo 18:00 val. Žeimių, Kulvos bei Pelėdnagių seniūnijų patalpose organizuoti ataskaitos pristatymą nuotoliniu būdu.

Kitą aktualią informaciją, susijusią su šiuo viešu susirinkimu, pateiksime kelių dienų laikotarpyje.

Uždaroji akcinė bendrovė „Infraplanas“
Inovacijų g. 3, Biruliškių k., Kauno r. sav. LT-54469
Į.k. 160421745, PVM k. LT604217417
Tel.: 8-621-66746
el. p.: info@infraplanas.lt

UAB INFRAPLANAS

ORIGINALAS NEBUS SIUNČIAMAS

Jonavos r. sav. Žeimių seniūnija (Kauno g. 47, Žeimių mstl., LT-55384 Jonavos r. sav.), el. p. faustas.pilipavicius@jonava.lt;

Jonavos r. sav. Kulvos seniūnija (Tarybų g. 2, Kulvos k., LT-55350 Jonavos r. sav.) el. p. ramunas.gudonavicius@jonava.lt;

Kėdainių r. sav. Pelėdnagių seniūnija (V. Koncevičiaus g. 3, Pelėdnagiai, LT-58164, Kėdainių r. sav.) el. p. pelednagiu.seniunija@kedainiai.lt

2023-11-15 Nr. S-2023-175

DĖL VIEŠO VISUOMENĖS SUPAŽINDINIMO SU „VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS“ POVEIKIO APLINKAI VERTINIMO ATASKAITOS (PAV) VIEŠO PRISTATYMO

Prašome, Jūsų **pritarimo**, jog Poveikio aplinkai vertinimo ataskaitos **viešas pristatymas 2023-12-19 18:00 val.** vyktų 2023 m. gruodžio 19 d., Jonavos r. sav. Žeimių mokyklos – daugiafunkcinio centro Barupės skyriaus patalpose, adresu Sodų g. 1A, Kuigalių k., Žeimių sen., Jonavos r. sav.

Tuo pačiu prašome suteikti galimybes 2023-12-19 dieną nuo 18:00 val. Žeimių, Kulvos bei Pelėdnagių seniūnijų patalpose organizuoti ataskaitos pristatymą nuotoliniu būdu.

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Uždaroji akcinė bendrovė „Infraplanas“
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UAB INFRAPLANAS

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2023-11-15 Nr. S-2023-175

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DĖL VIEŠO VISUOMENĖS SUPAŽINDINIMO SU „VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS“ POVEIKIO APLINKAI VERTINIMO ATASKAITOS (PAV) VIEŠO PRISTATYMO

Prašome, Jūsų **pritarimo**, jog Poveikio aplinkai vertinimo ataskaitos **viešas pristatymas 2023-12-19 18:00 val.** vyktų 2023 m. gruodžio 19 d., Jonavos r. sav. Žeimių mokyklos – daugiafunkcinio centro Barupės skyriaus patalpose, adresu Sodų g. 1A, Kuigalių k., Žeimių sen., Jonavos r. sav.

Tuo pačiu prašome suteikti galimybes 2023-12-19 dieną nuo 18:00 val. Žeimių, Kulvos bei Pelėdnagių seniūnijų patalpose organizuoti ataskaitos pristatymą nuotoliniu būdu.

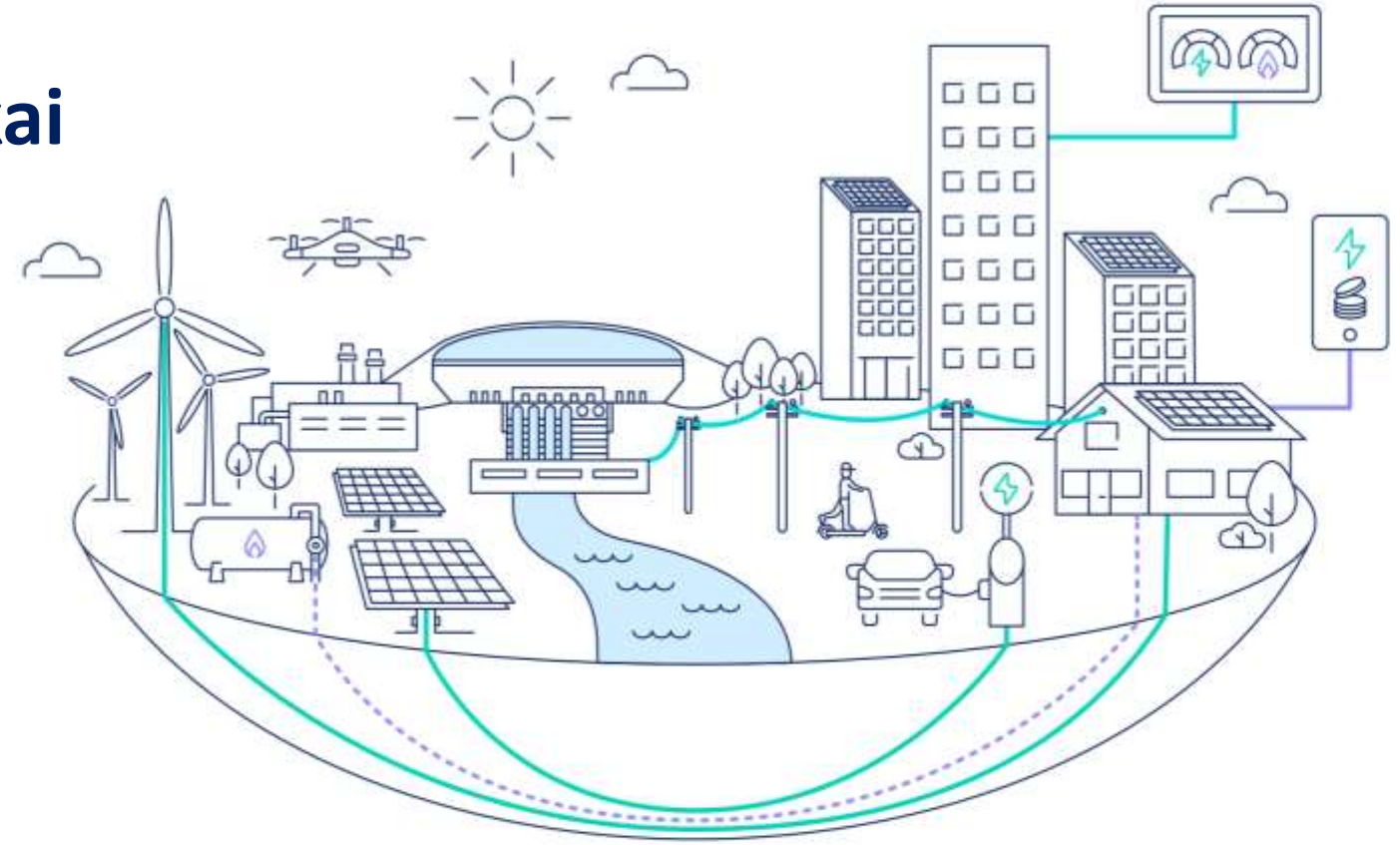
Kitą aktualią informaciją, susijusią su šiuo viešu susirinkimu, pateiksime kelių dienų laikotarpyje.

Uždaroji akcinė bendrovė „Infraplanas“
Inovacijų g. 3, Biruliškių k., Kauno r. sav. LT-54469
Į.k. 160421745, PVM k. LT604217417
Tel.: 8-621-66746
el. p.: info@infraplanas.lt

Vėjo elektrinių parko Jonavos r. sav. įrengimo ir eksploatacijos poveikio aplinkai vertinimo pristatymas visuomenei

„Ignitis grupė“ – kuriame energetiškai sumanų pasaulį

#EnergySmart



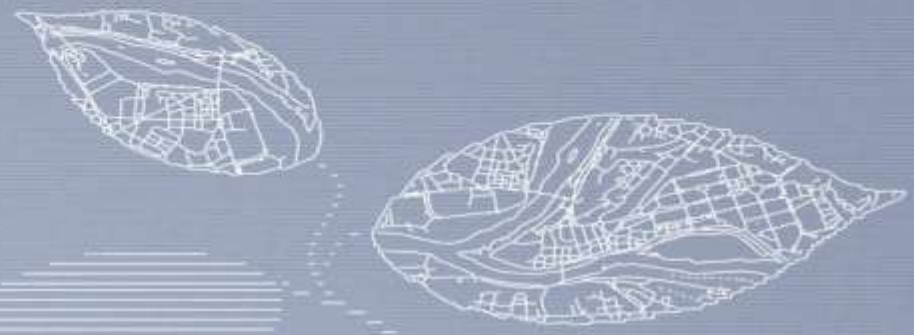
Tinklai
Atsparus ir efektyvus energijos skirstymas, sudarantis prielaidas energetikos pokyčiams.

Žalioji gamyba
Kryptinga, tvari ir pelninga veikla.

Lanksčioji gamyba
Patikima ir lanksti energetikos sistema.

Sprendimai klientams
Inovatyvūs sprendimai lengvesniam gyvenimui ir energetikos vystymui.

ignitis renewables



UAB INFRAPLANAS

VIEŠO SUSIRINKIMO EIGA

- **18:00-18:10** Bendroji informacija;
- **18:10-18:50** Poveikio aplinkai vertinimo rezultatų pristatymas
- **18:50-20:00** Atsakymai į klausimus
- **20:00** Pristatymo pabaiga
- **20:00-21:00** Pokalbiai prie kavos

SUSIRINKIMO VEDIMO TVARKA

Susirinkimo pirmininkas:

Susirinkimo sekretorius:

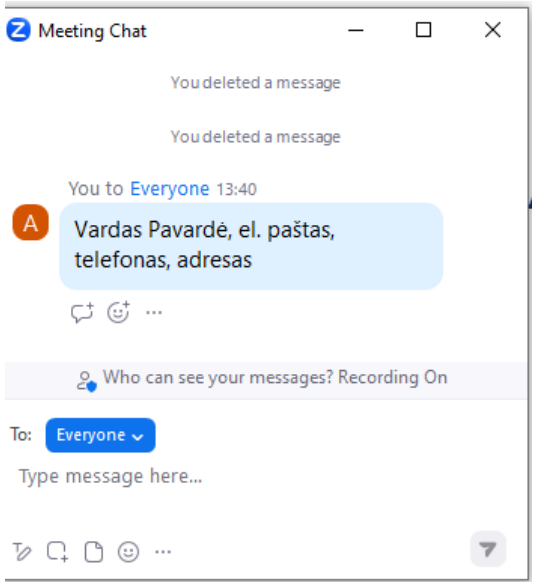
Registracija:

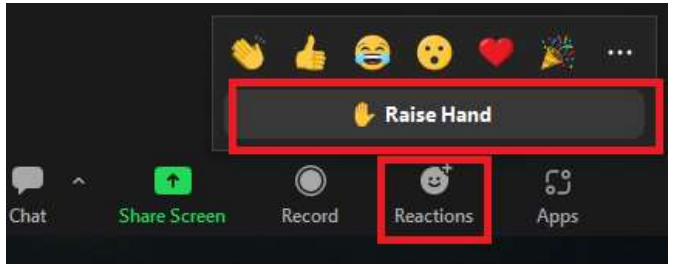
- viešo svarstymo dalyvių sąraše.
- prisijungę nuotoliniu būdu registracijos duomenis (vardą, pavardę, adresą, telefono numerį el. paštą bei juridinį asmenį ar organizaciją, jeigu jai atstovaujate) nurodo komentarų skiltyje.
- gyventojai atvykę į susirinkimą seniūnijoje taip pat kaip ir prisijungę nuolotiniu būdu, užsiregistruos ZOOM programos komentarų skiltyje.

Pasisakymai, klausimai galimi tik po pristatymo:

- visus pasisakančius prašom prisistatyti.
- prisijungę nuotoliniu būdu užduoti klausimus galima ZOOM programoje, pakeliant ranką (eilės tvarka bus išklausyti).

<u>Susirinkimo metu bus atliekamas garso ir vaizdo įrašas. Protokolas bus parengta per 5 d.d.</u>





VIEŠINIMAS

- PAV ataskaitos rengėjas ne vėliau kaip prieš 20 darbo dienų iki viešo visuomenės supažindinimo su PAV ataskaita susirinkimo apie jį paskelbė:
  - Jonavos ir Kėdainių r. savivaldybių interneto svetainėse bei skelbimų lentose;
  - Kulvos, Žeimių bei Pelėdnagių seniūnijų skelbimo lentose;
  - Jonavos r. laikraštyje „Alio Jonava“ bei Kėdainių r. laikraštyje „Rinkos aikštė“;
  - UAB „Infraplanas“ interneto svetainėje.

PASIŪLYMŲ TEIKIMAS

- Iki viešo susitikimo su visuomene, nebuvo gauta nei vieno suinteresuotos visuomenės atstovo pastabų/pasiūlymų.
- Susirinkimo metu pasiūlymus prašome teikti raštu užpildant pasiūlymų formą arba pasiūlymus pateikti el. paštu info@infraplanas.lt
- Visuomenės pasiūlymai yra registruojami, bus parengtas suinteresuotos visuomenės pasiūlymų įvertinimas, kuris, kaip ir protokolas, bus įtrauktas į ataskaitos priedą apie visuomenės informavimą ir dalyvavimą PAV procedūrose ir pateiktas PAV subjektams ir Agentūrai.
- PAV rengėjas pasiūlymus raštu pateikusiems asmenims raštu informuos, kaip įvertinti jų pasiūlymai.

BENDRA INFORMACIJA

PŪV organizatorius: UAB „Ignitis renewables projektai“.

PAV dokumentų rengėjas: UAB „Infraplanas“.

PAV subjektai (nagrinėja ir teikia išvadas dėl PAV ataskaitos):

- Nacionalinis visuomenės sveikatos centras, Kultūros paveldo departamentas, Jonavos ir Kėdainių rajonų savivaldybių administracijos, Priešgaisrinės apsaugos ir gelbėjimo departamentas, Valstybinė saugomų teritorijų tarnyba.

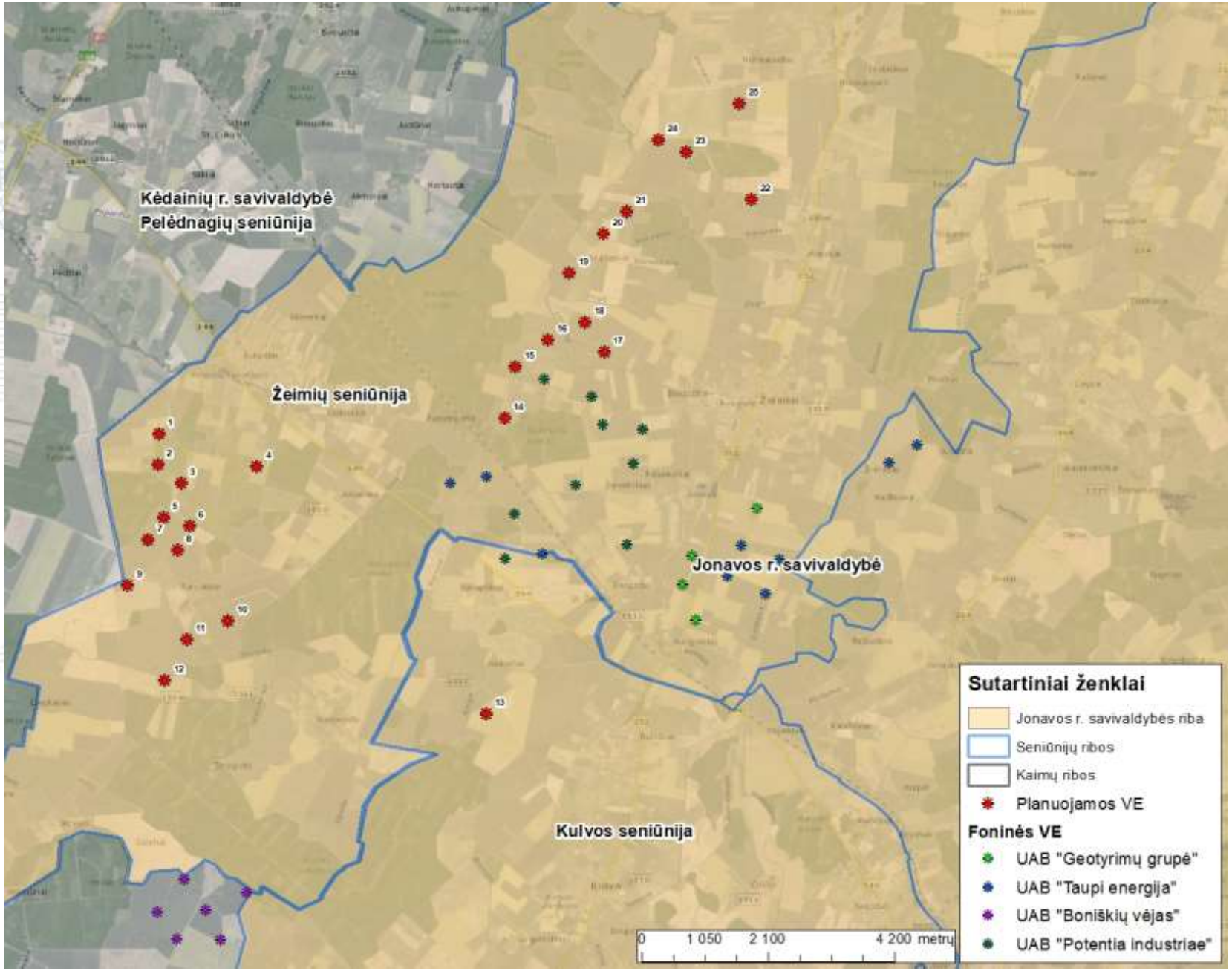
Atsakinga institucija (priima sprendimą dėl veiklos galimybių) – Aplinkos apsaugos agentūra.

PŪV VIETA. GRETIMYBĖS

- Planuojama ūkinė veikla – vėjo elektrinių statyba planuojama Jonavos r. sav., Žeimių sen.: Pėdžių, Kuigalių, Barsukinės, Liepkalnio, Blauzdžių, Svalkenių, Aklių, Normainėlių kaimuose bei Kulvos sen. Jonkučių kaime esančiuose sklypuose.

- Artimiausios apgyvendintos teritorijos – pateiktos paveikslėlyje žemiau.

- Analizuojamai teritorijai artimiausi gyvenamieji pastatai nutolę apie 628-1978 m atstumu (saugotinos aplinkos/sklypų ribos 601 m – 1939 m) nuo planuojamų vėjo elektrinių.


Kėdainių r. savivaldybė
Pelėdnagių seniūnija
Žeimių seniūnija
Jonavos r. savivaldybė
Kulvos seniūnija
Sutartiniai ženklai
Jonavos r. savivaldybės riba
Seniūnijų ribos
Kaimų ribos
Planuojamos VE
Foninės VE
UAB "Geotyrimų grupė"
UAB "Taupi energija"
UAB "Boniškių vėjas"
UAB "Potentia Industriae"
0
1 050
2 100
4 200 metrų

POVEIKIO APLINKAI VERTINIMO ATASKAITOJE VERTINTI ASPEKTAI:

Fizinė ir gyvoji gamta:

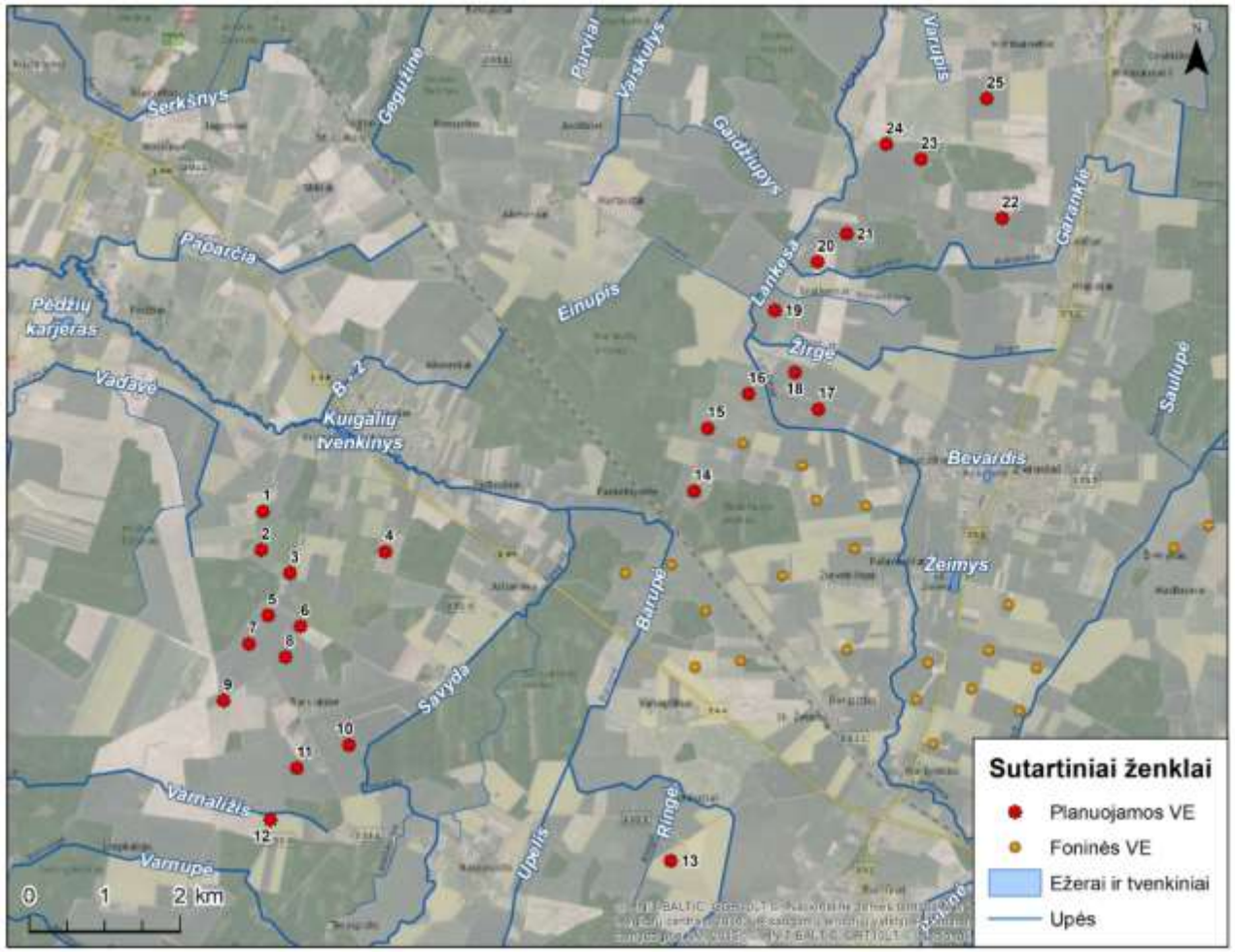
- dirvožemis
- paviršinis ir požeminis vanduo
- kraštovaizdis
- biologinė įvairovė
- saugomos teritorijos
- gyvosios ir negyvosios gamtos ištekliai

Žmogus ir socialinė aplinka:

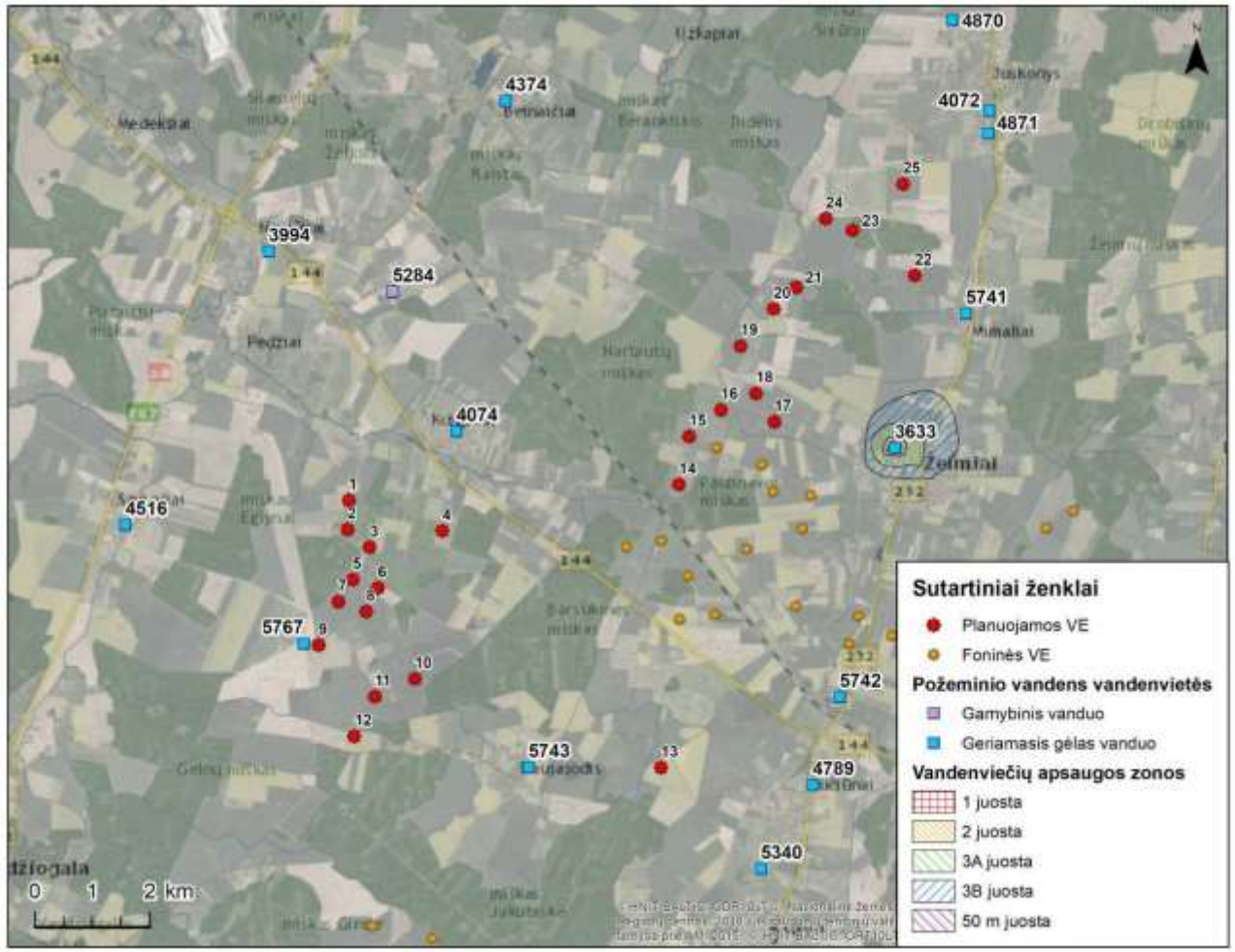
- triukšmas (girdimas, infragarsas ir žemo dažnio garsas)
- šešėliavimas
- žemėnauda ir jos sąskaida
- nekilnojamosios kultūros vertybės
- visuomenės sveikata

VANDUO (1)

Paviršinio vandens telkiniai

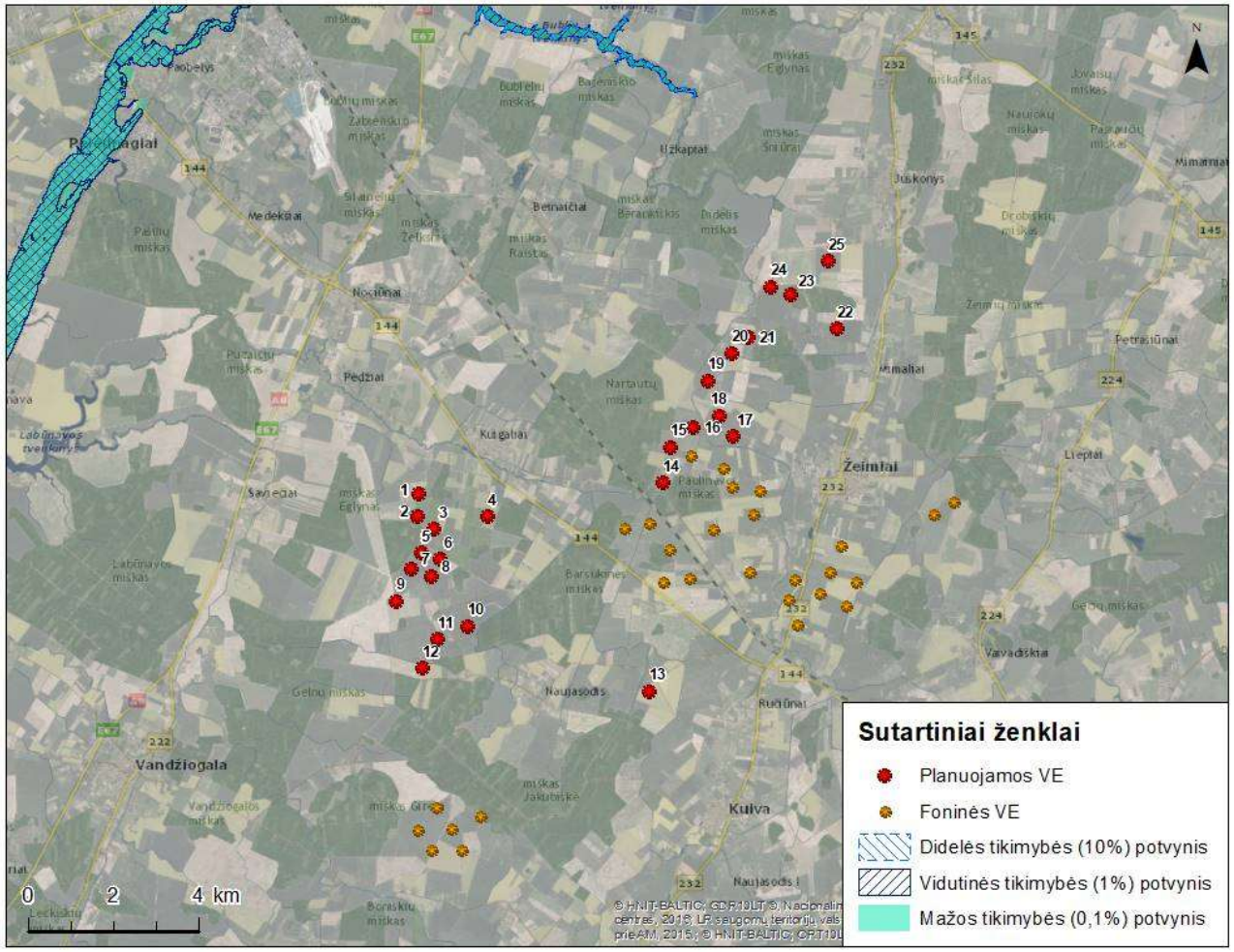


Požeminio vandens vandenvietės

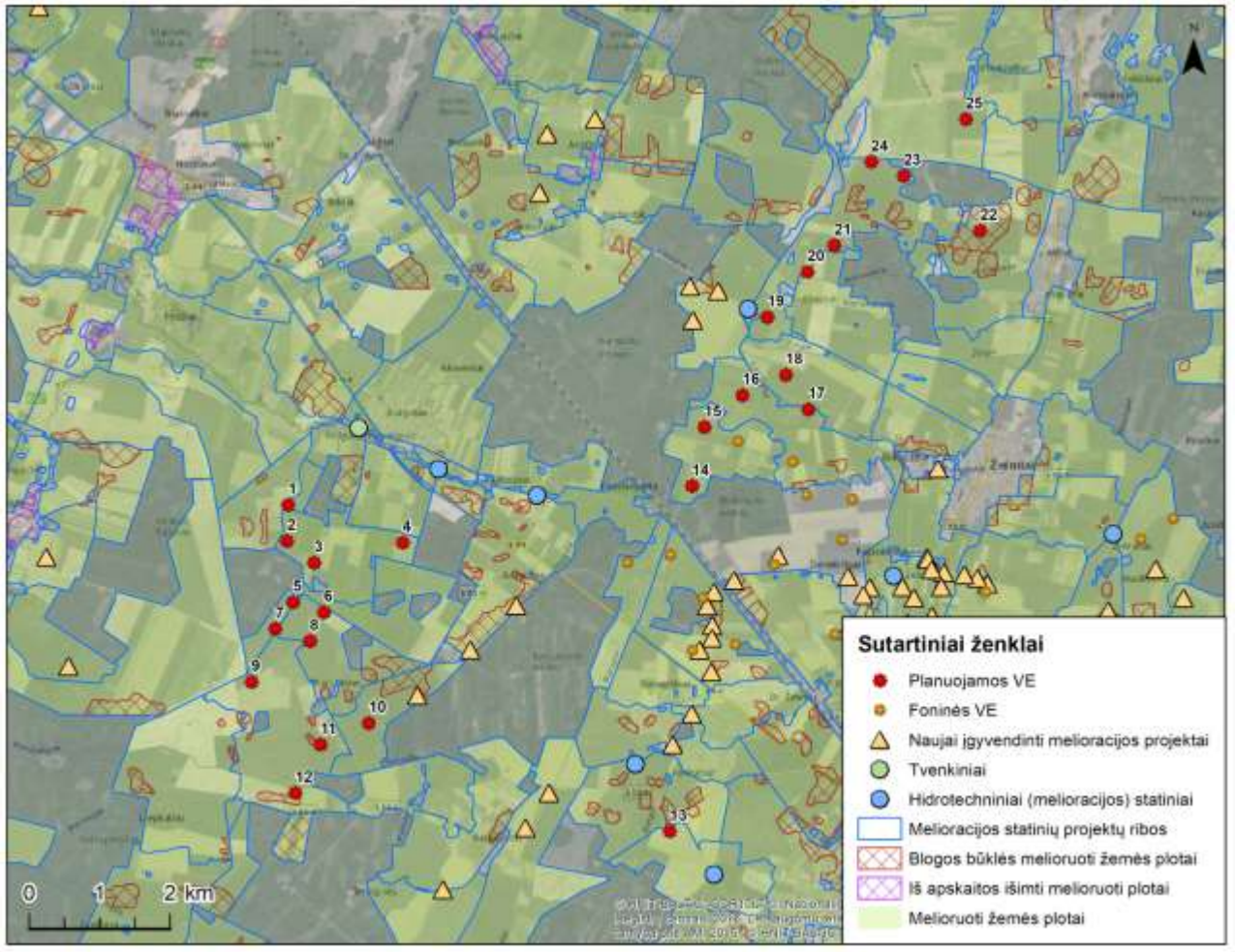


VANDUO (2)

Potvyniai

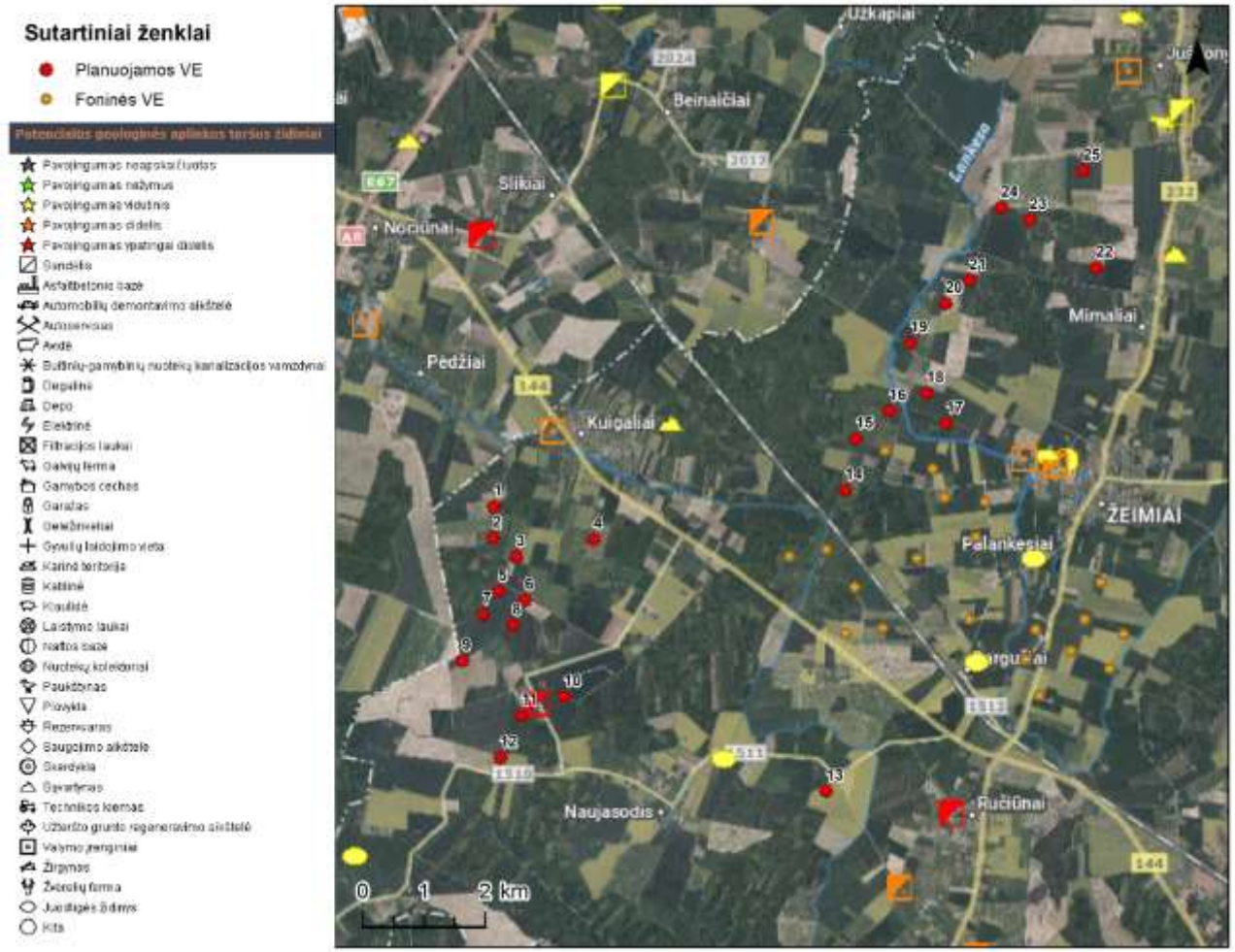


Melioruoti žemės plotai

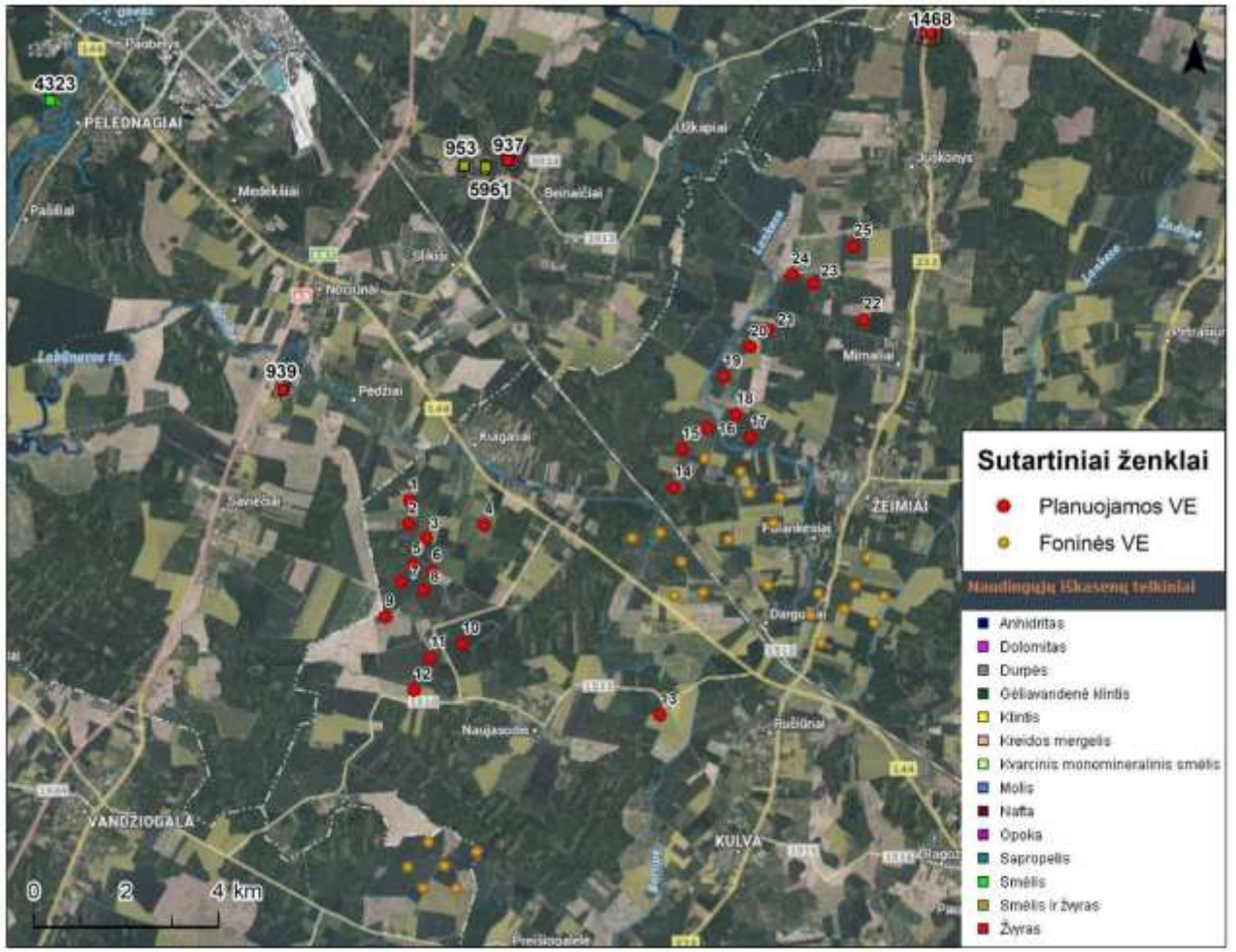


ŽEMĖS GELMĖS IR DIRVOŽEMIS

Potencialūs taršos židiniai



Naudingųjų iškasenų telkiniai



GAMTINIS KARKASAS

Gamtinio karkaso teritorijos

Geoekologinės takoskyros

Regioninės svarbos geoekologinės takoskyro

Migraciniai koridoriai

Nacionalinės svarbos migracijos koridorius

Regioninės svarbos migracijos koridorius

Vietinės svarbos migracijos koridorius

Geosistemų vidinio stabilizavimo arealai

Regioninės svarbos vidinio stabilizavimo arealai

Vietinės svarbos vidinio stabilizavimo arealai

Gamtinio karkaso tvarkymo kryptys

Geoekologinės takoskyros

T1 - Išlaikomas ir saugomas esamas natūralus kraštovaizdžio pobūdis

T2 - Palaikomas ir stiprinamas esamas kraštovaizdžio pobūdis ir natūralumas

T3 - Grąžinami ir gausinami kraštovaizdžio natūralumą atkuriantys elementai, tame tarpe:

T3.1 - Silpno geoekologinio potencialo teritorijose

T3.2 - Pažeistose ir stipriai pažeistose gamtinio karkaso teritorijose

Migraciniai koridoriai

M1 - Išlaikomas ir saugomas esamas natūralus kraštovaizdžio pobūdis

M2 - Palaikomas ir stiprinamas esamas kraštovaizdžio pobūdis ir natūralumas

M3 - Grąžinami ir gausinami kraštovaizdžio natūralumą atkuriantys elementai, tame tarpe:

M3.1 - Silpno geoekologinio potencialo teritorijose

M3.2 - Pažeistose ir stipriai pažeistose gamtinio karkaso teritorijose

Geosistemų vidinio stabilizavimo arealai

S1 - Išlaikomas ir saugomas esamas natūralus kraštovaizdžio pobūdis

S2 - Palaikomas ir stiprinamas esamas kraštovaizdžio pobūdis ir natūralumas

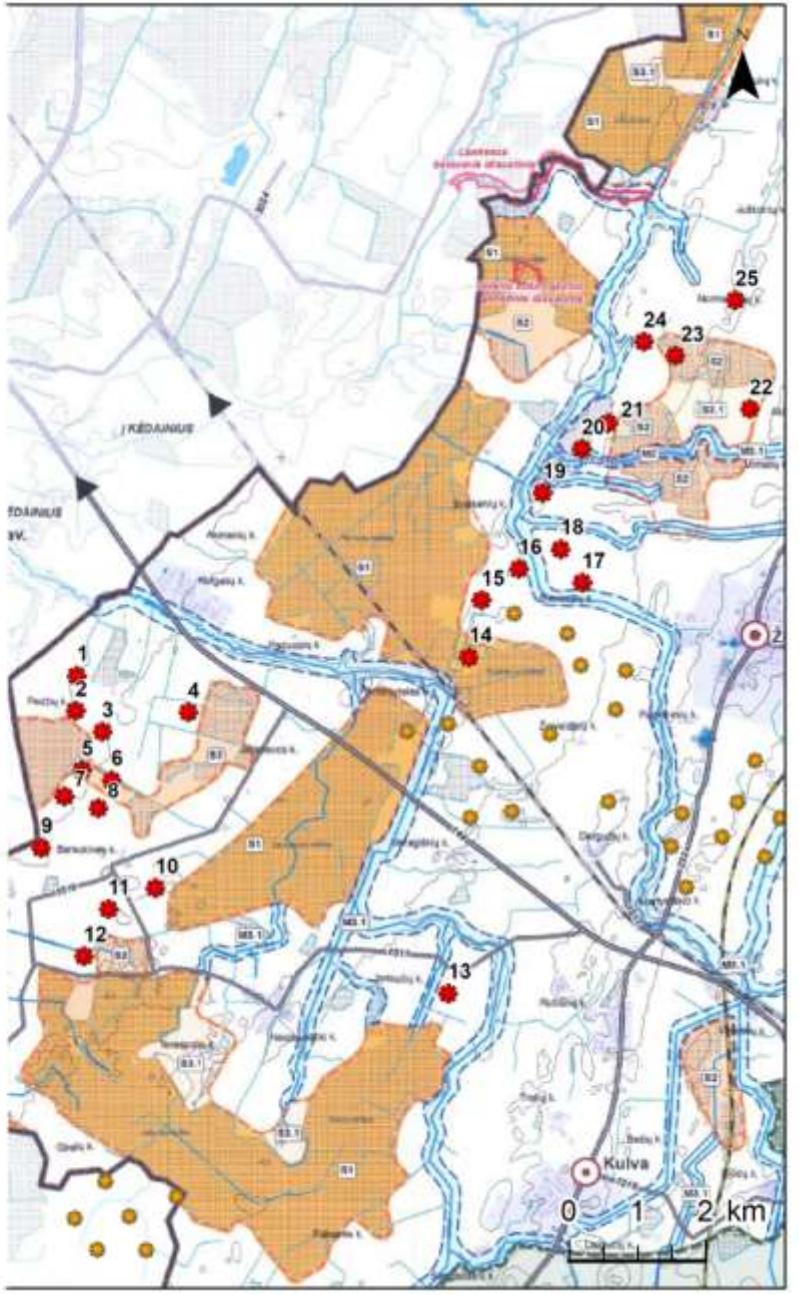
S3 - Grąžinami ir gausinami kraštovaizdžio natūralumą atkuriantys elementai, tame tarpe:

S3.1 - Silpno geoekologinio potencialo teritorijose

S3.2 - Pažeistose ir stipriai pažeistose gamtinio karkaso teritorijose

Sutartiniai ženklai

- Planuojamos VE
- Foninės VE

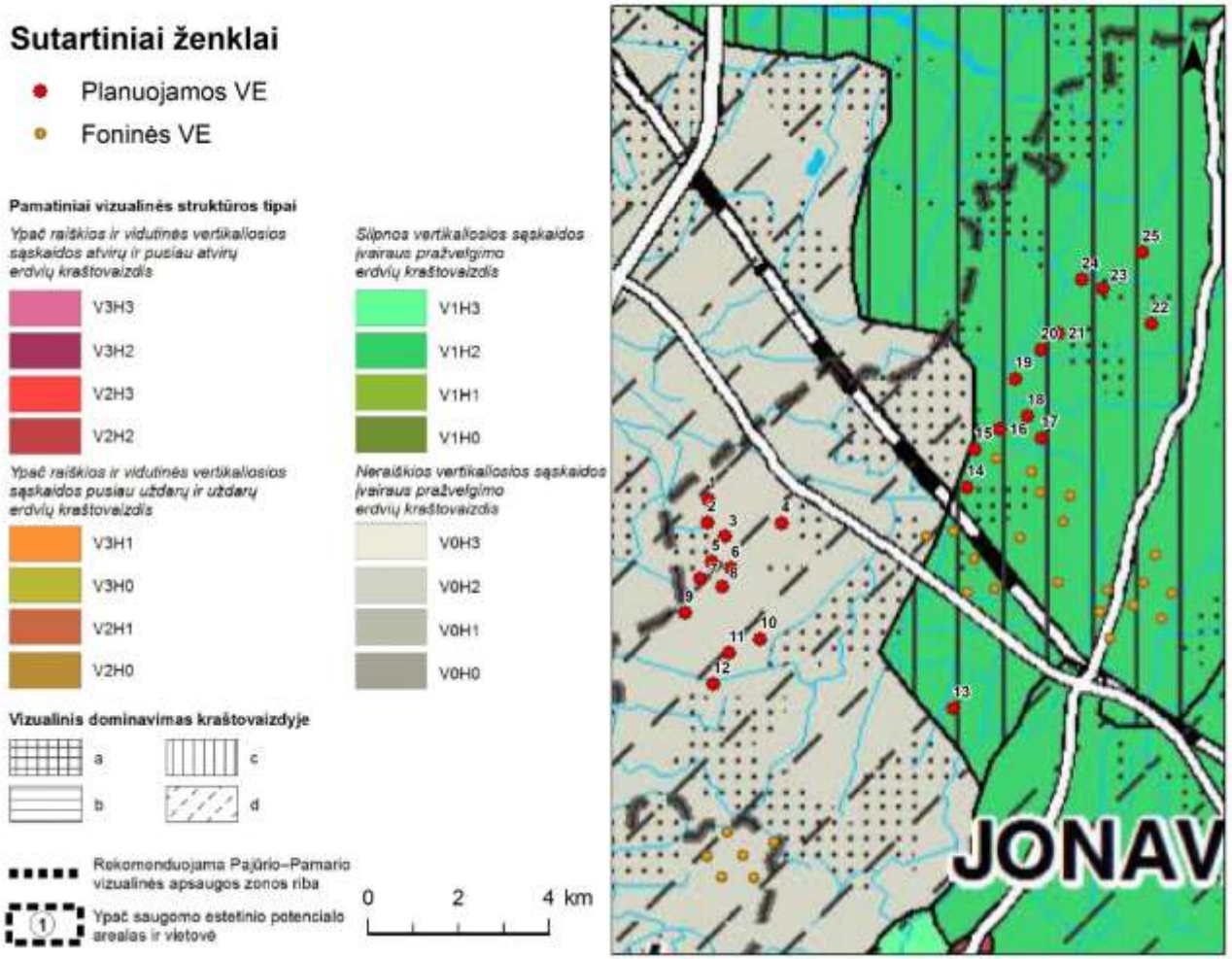


KRAŠTOVAIZDIS (1)



KRAŠTOVAIZDIS (2)

Vizualinis estetinis potencialas

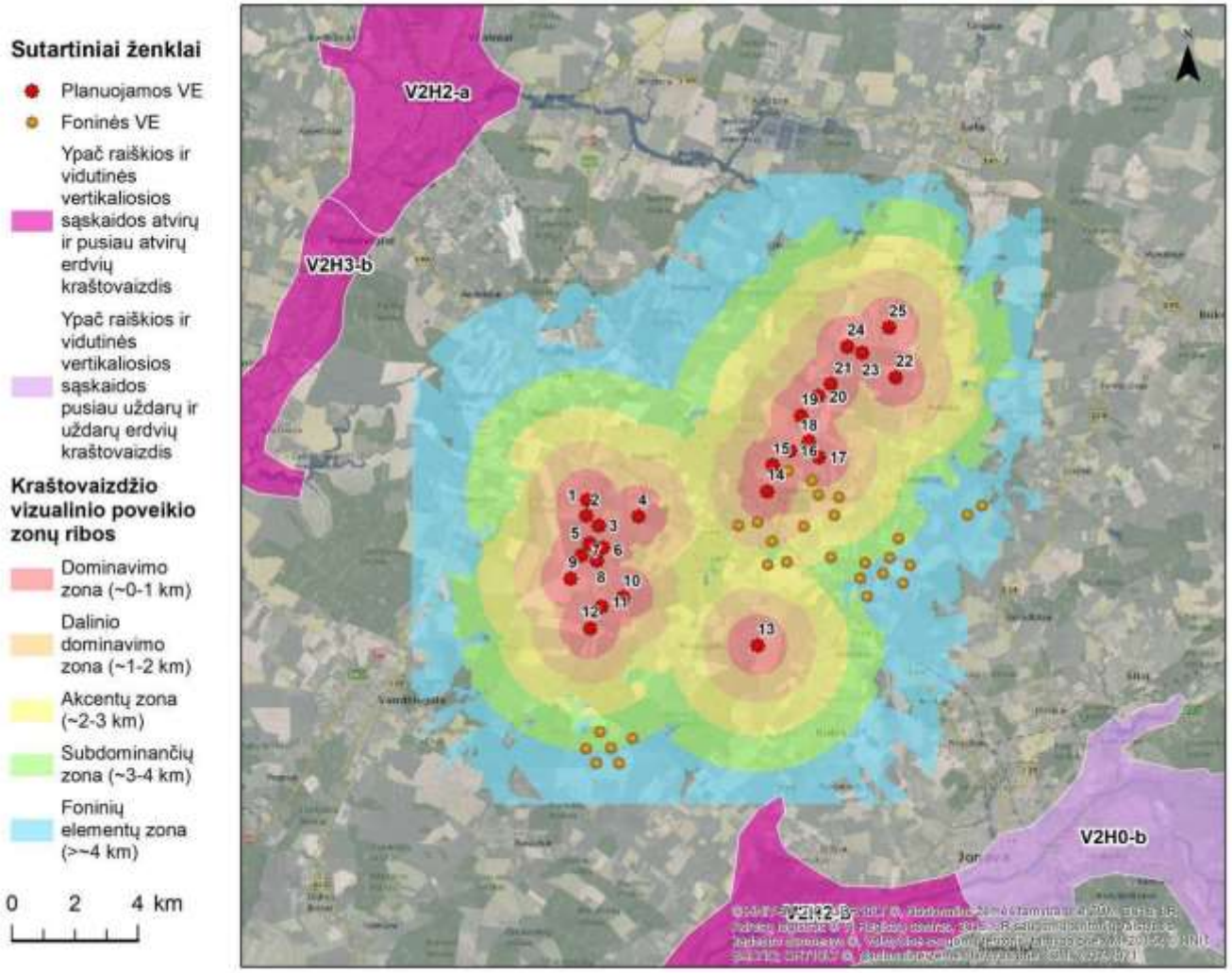




KRAŠTOVAIZDIS (3)

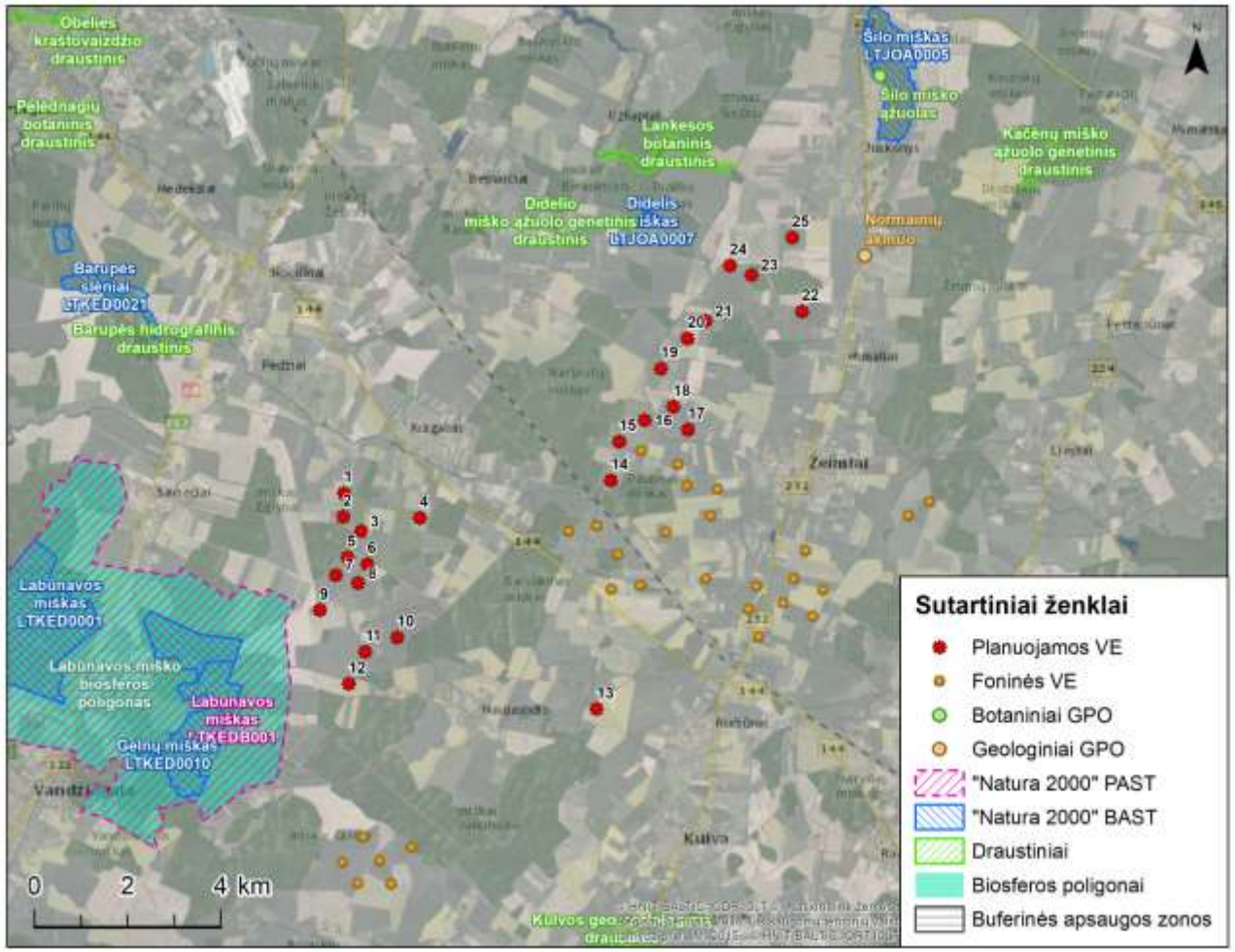
LR atsinaujinančių išteklių energetikos įstatymo 49 straipsnio 18 punktas:

VE nestatomos vertingiausiuose kraštovaizdžio arealuose ar ne arčiau jų atstumu, kuris apskaičiuojamas prilyginant vieną metrą VE aukščio (matuojant VE stiebo aukštį) 10 metrų atstumui iki artimiausio kraštovaizdžio panoramų apžvalgos taško vertingiausiuose kraštovaizdžio arealuose.



SAUGOMOS TERITORIJOS IR NATŪRALIOS BUVEINĖS

Saugomos teritorijos



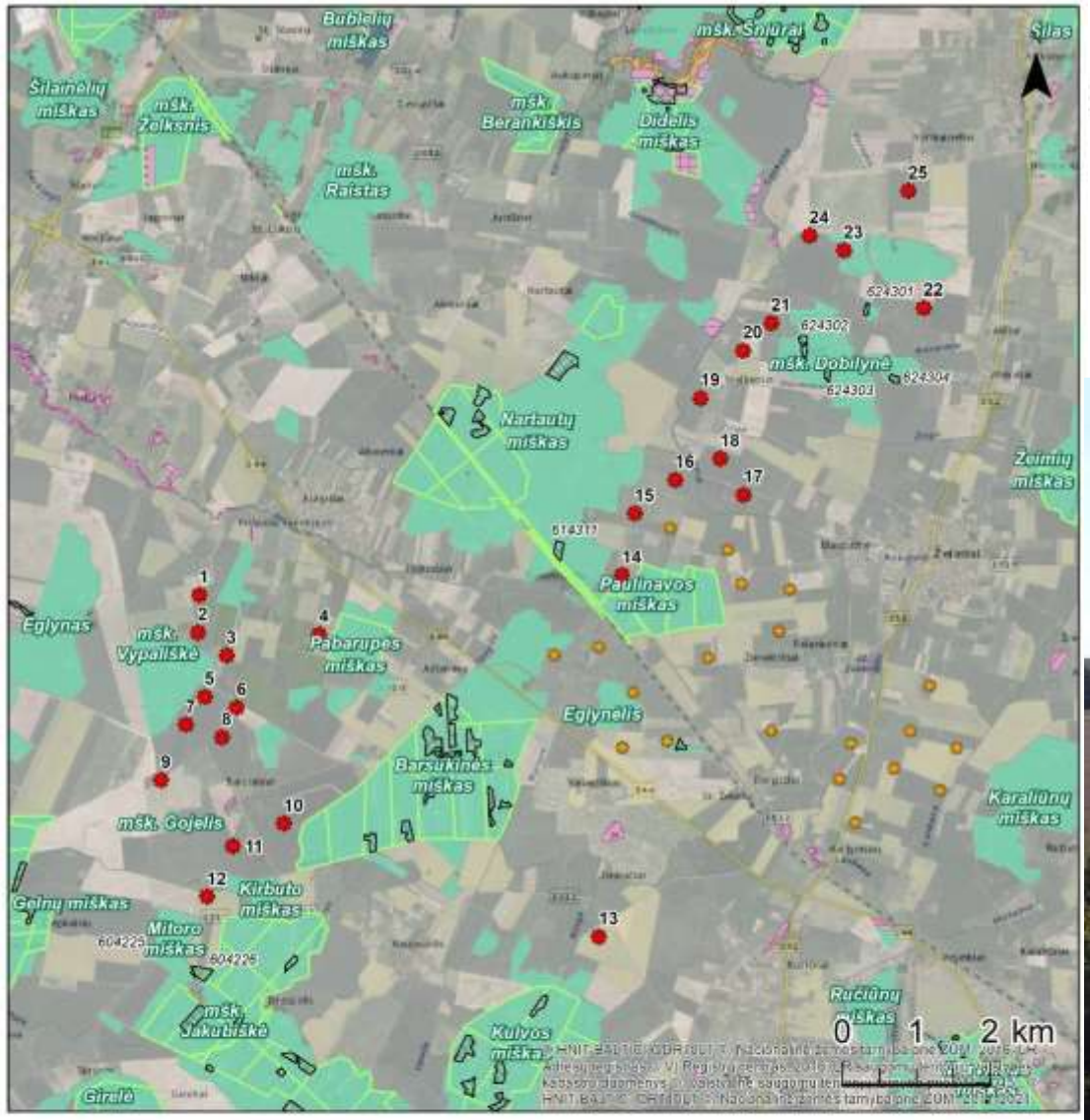
Europos Bendrijos svarbos natūralios buveinės



UAB INFRAPLANAS

MIŠKAI





Sutartiniai ženklai

- Planuojamos VE
- Foninės VE
- Kertinės miško buveinės
- Valstybinės reikšmės miškai

Miškų pogrupiai

II grupė. Specialiosios paskirties miškai. A. Ekosistemų apsaugos miškai

- Draustinių miškai

III grupė. Apsauginiai miškai

- Draustinių miškai
- Laukų apsauginiai miškai
- Miško sėkliniai medynai
- Vandens telkinių apsaugos zonų miškai

IV grupė. Ūkiniai miškai

- Ūkiniai miškai

SAUGOMOS RŪŠYS

Analizuojamoje teritorijoje (~2 km spinduliu nuo VE) registruota **30 saugomų rūšių:**

- 7 žinduolių rūšių (iš kurių **4 šikšnosparnių rūšys);**
- **17 paukščių rūšių;**
- 3 vabzdžių rūšys;
- 2 augalų rūšys;
- 1 grybų rūšis.



Mažasis erelis rėksnys



Vėlyvasis šikšnys



Juodasis gandras

PRIEMONĖS PAUKŠČIAMS IR ŠIKŠNOSPARNIAMS (1)

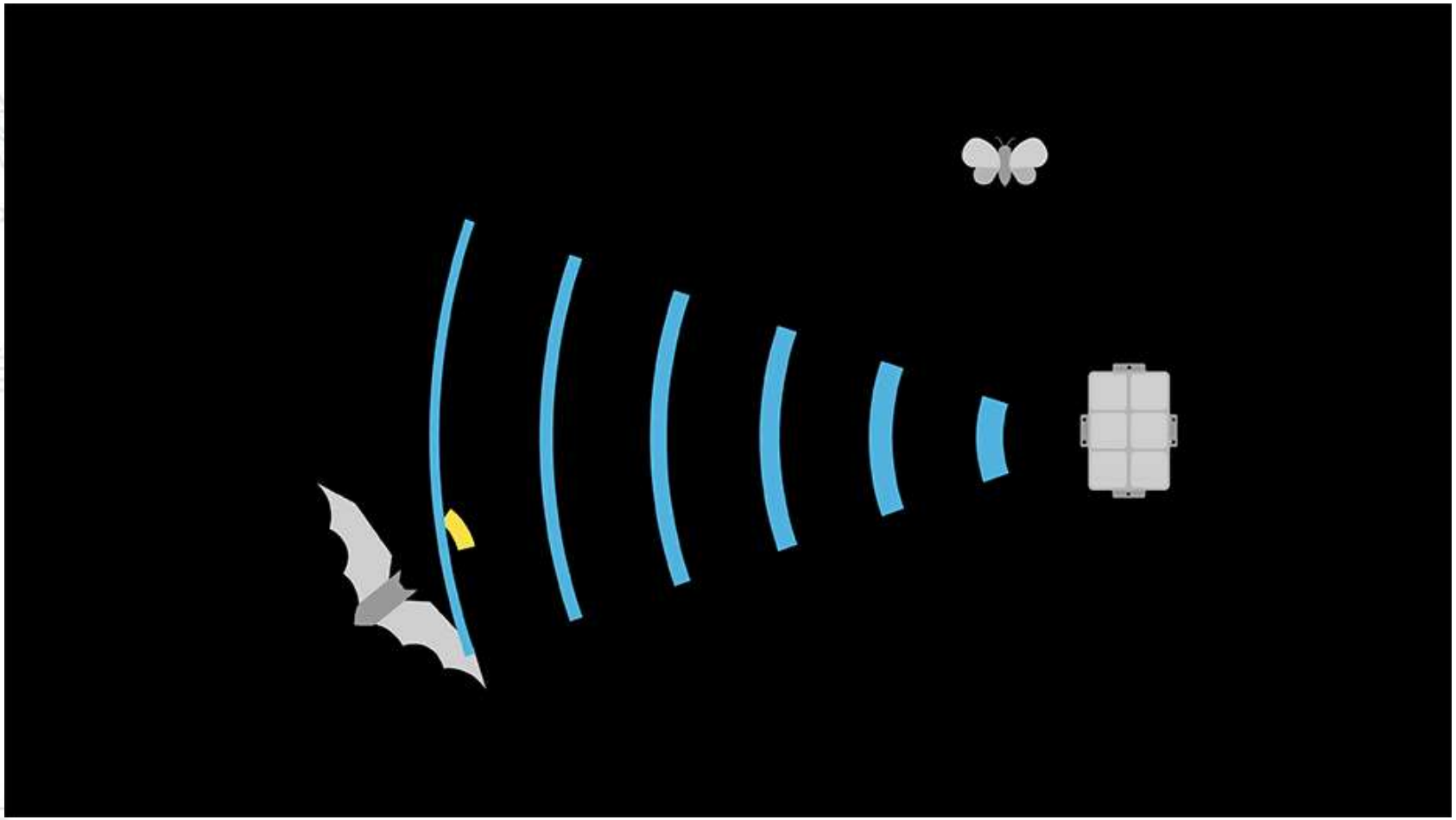


Pavyzdinė jėgaines stabdanti sistema



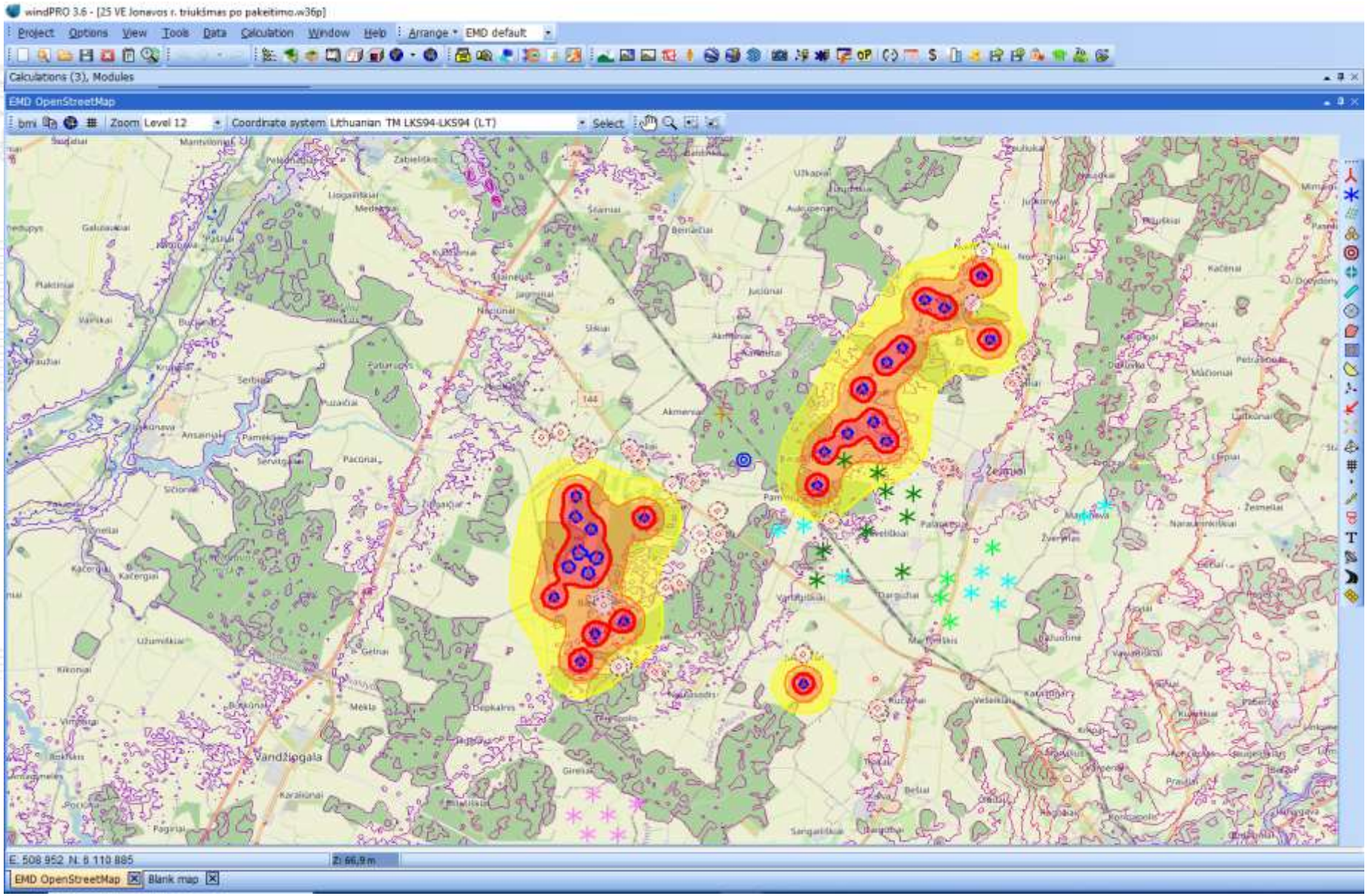
Suopis ant tupėjimo posto

PRIEMONĖS PAUKŠČIAMS IR ŠIKŠNOSPARNIAMS (2)

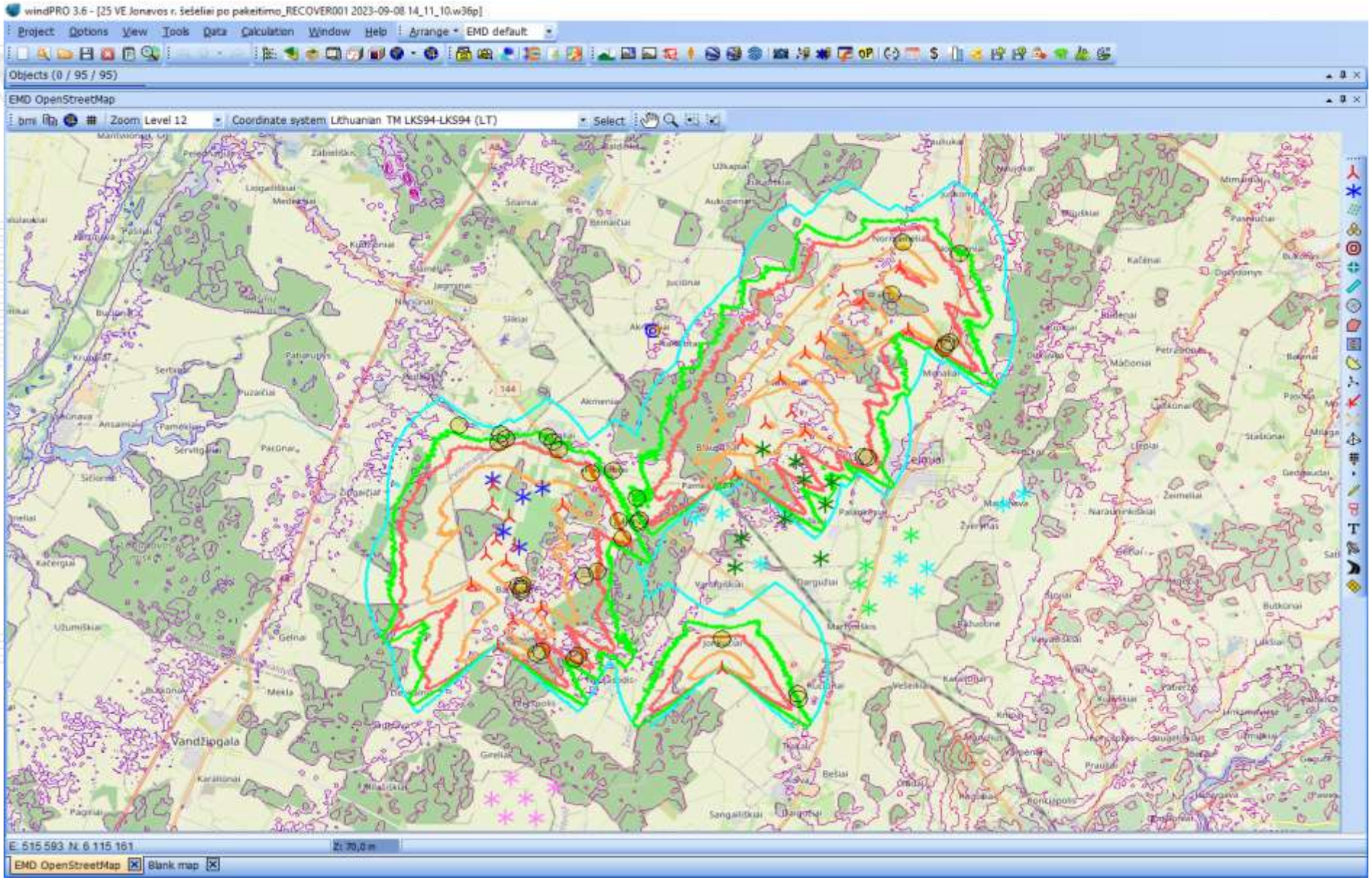


Šikšnosparnius atbaidančios priemonės veikimo principas

TRIUKŠMO VERTINIMAS



ŠEŠĖLIAVIMO VERTINIMAS



SUINTERESUOTOJI VISUOMENĖ TURI TEISĘ TEIKTI PASIŪLYMUS DĖL PAV ATASKAITOS IR ATLIEKAMO PAV (1):

- Agentūrai ir PAV dokumentų rengėjui – PAV dokumentų rengėjo visuomenei skelbiamoje informacijoje apie viešą visuomenės supažindinimą su PAV ataskaita nustatytu terminu, kuris yra ne trumpesnis kaip 20 darbo dienų iki viešo visuomenės supažindinimo su PAV ataskaita;
- PAV dokumentų rengėjui – viešo visuomenės supažindinimo su PAV ataskaita metu;
- Suinteresuotoji visuomenė turi teisę Agentūrai teikti pasiūlymus, kurie bus apsvarstyti su suinteresuotos visuomenės atstovais prieš Agentūrai priimant sprendimą dėl planuojamos ūkinės veiklos poveikio aplinkai. Pasiūlymų teikimo terminas – 10 darbo dienų nuo pranešimo paskelbimo dienos. Pasiūlymai, gauti pasibaigus šiam terminui, nenagrinėjami.

SUINTERESUOTOJI VISUOMENĖ TURI TEISĘ TEIKTI PASIŪLYMUS DĖL PAV ATASKAITOS IR ATLIEKAMO PAV (2):

- PAV dokumentų rengėjas, gavęs suinteresuotos visuomenės pasiūlymus tiesiogiai iš suinteresuotos visuomenės atstovų, raštu informuoja juos, kad pasiūlymai gauti ir bus parengtas suinteresuotos visuomenės pasiūlymų įvertinimas, o šis bus įtrauktas į PAV ataskaitos priedą apie visuomenės informavimą ir dalyvavimą PAV procedūrose ir paskelbtas Agentūros interneto svetainėje.

PAV IŠVADOS (1):

Fizinė ir gyvoji gamta:

- dirvožemis - Poveikis dirvožemiui neprognozuojamas, nes planuojama veikla nėra tarši ir bus vykdoma laikantis įstatymų ir kitų teisės aktų reikalavimų, o po statybos darbų teritorija bus sutvarkoma iki pradinės būklės panaudojant prieš statybas nukastą derlingąjį dirvožemio sluoksnį.
- paviršinis ir požeminis vanduo - Veikla nėra tarši, nesusijusi su vandens naudojimu ir bus vykdoma laikantis įstatymų ir kitų teisės aktų reikalavimų, todėl neigiamas poveikis paviršiniam ir požeminiam vandeniui neprognozuojamas.
- kraštovaizdis - Jėgainių vizualinio poveikio zonos buvo nustatytos ir apima 5 zonas: dominavimo, dalinio dominavimo, akcentų, subdominančių ir foninių elementų zonas. Saugotino kraštovaizdžio arealas patenka į foninių elementų zoną, kurioje jėgainės matomos smulkios formos ir kraštovaizdžio fone tampa nereikšmingomis.
- biologinė įvairovė, saugomos teritorijos, gyvosios ir negyvosios gamtos ištekliai- siekiant apsaugoti šiuos gamtos komponentus yra planuojama diegti ankščiau ataskaitoje minimas paukščių apsaugos priemones. Įdiegus šias priemones poveikio rizika šiems aplinkos komponentams bus sumažinama iki minimumo, arba jos iš vis bus išvengiama. Siekiant nustatyti poveikio mastą ir priemonių efektyvumą įgyvendinant projektą bei jį įgyvendinus bus atliekamas paukščių ir šikšnosparnių žūčių monitoringas. Paaiškėjus, kad poveikis vis dėl to yra sukeliamas bus nedelsiant taikomos papildomos priemonės pagal monitoringo programą.

PAV IŠVADOS (2):

Žmogus ir socialinė aplinka:

- Triukšmas – įgyvendinus projektą blogiausiomis triukšmo atžvilgiu sąlygomis, triukšmo viršijimų pagal HN 33:2011 reikalavimus gyvenamąjai aplinkai nenustatyta. Reikšmingas neigiamas poveikis dėl PŪV neprognozuojamas;
- Infragarsas - Vėjo elektrinės keliamo infragarso lygis yra žymiai mažesnis nei ribiniai ar girdimumo lygiai pagal HN 30:2018, todėl jis neigiamo poveikio žmonių sveikatai nekels;
- Šešėliavimas - įvertinus foninių ir planuojamų jėgainių veiklą, taikant šešėliavimo mažinimo priemones (bus taikomos VE Nr. 11, 12, 22), reikšmingas neigiamas poveikis gyventojams neprognozuojamas;
- Žemėnauda ir jos sąskaida - įvertinus foninių ir planuojamų jėgainių veiklą žemėnaudai ir jos sąskaidai poveikis neprognozuojamas;

PAV IŠVADOS (3):

- Nekilnojamosios kultūros vertybės - planuojamos VE nepatenka į nekilnojamųjų kultūros objektų teritorijas ar jų apsaugos zonas, todėl planuojamų VE statyba ir tolimesnė eksploatacija neigiamo poveikio kultūros paveldo objektams neturės, priemonės nesiūlomos.
- Visuomenės sveikata – įvertinus anksčiau išvardytų faktorių poveikį, reikšmingas neigiamas poveikis visuomenei dėl PŪV neprognozuojamas;

Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (PAV) ataskaitos viešo pristatymo visuomenei susirinkimo protokolas

2023 m. gruodžio 19 d.
Jonavos r. sav. Barupės mokykla – daugiafunkcinis centras
Sodų g. 1A, Kuigalių k., Jonavos r. sav.

Viešas susirinkimas vyko hibridiniu būdu, 2023 m. gruodžio 19 d., 18 val., Jonavos r. sav. Barupės mokyklos – daugiafunkcinio centro salėje, adresu Sodų g. 1A, Kuigalių k., Jonavos r. sav.. Taip pat suinteresuotos visuomenės atstovams buvo suteiktos techninės galimybės nuotoliniu būdu dalyvauti viešame visuomenės supažindinime su poveikio aplinkai vertinimo ataskaita, pateikti klausimus ir išgirsti atsakymus, atvykus į Žeimių (Kauno g. 47, Žeimių mstl., Jonavos r.), Kulvos (Tarybų g. 2, Kulvos k., Jonavos r.) bei Pelėdnagių (V. Koncevičiaus g. 3, Pelėdnagiai, Kėdainių r. sav.) seniūnijų patalpas.

Dalyvių registracija, susirinkimo vietoje, seniūnijose ir nuotoliniu būdu, prasidėjo 17:30 val.
Susirinkimas prasidėjo 18:07 val.

Susirinkimo pirmininkė:

Susirinkimo sekretorė:

Dalyvavo:

Jonavos r. sav. Barupės mokyklos – daugiafunkcinio centro salėje – PAV ataskaitos rengėjų UAB

ir 4 suinteresuotos visuomenės atstovai.

Žeimių seniūnijoje - PAV ataskaitos rengėjų UAB „Infraplanas" atstovas – ir 11 suinteresuotos visuomenės atstovų.

Kulvos seniūnijoje - PAV ataskaitos rengėjų UAB „Infraplanas" atstovė – ir 2 suinteresuotos visuomenės atstovės.

Pelėdnagių seniūnijoje - PAV ataskaitos rengėjų UAB „Infraplanas" atstovas – Į Pelėdnagių seniūniją neatvyko nei vienas suinteresuotos visuomenės atstovas.

Nuotoliniu būdu į viešą susirinkimą prisijungė 8 suinteresuotos visuomenės atstovai.

Į poveikio aplinkai vertinimo viešą pristatymą atvyko 17, o prisijungė nuotoliu 8 suinteresuotos visuomenės atstovai. Iš viso dalyvavo 40 registruotų dalyvių (prie protokolo yra pridedamas užsiregistravusių dalyvių sąrašas).

Iki viešo visuomenės supažindinimo su ataskaita susirinkimo nebuvo gautas nei vienas suinteresuotos visuomenės pasiūlymas. Vykusio viešo supažindinimo su ataskaita susirinkimo metu buvo gautas vienas suinteresuotos visuomenės pasiūlymas, o po susirinkimo elektroniniu paštu buvo gauti dar du suinteresuotos visuomenės pasiūlymai. Visuomenės pasiūlymai, gauti viešo visuomenės supažindinimo su ataskaita metu ir po jo (elektroniniu paštu), registruojami, jiems bus parengtas suinteresuotos visuomenės pasiūlymų įvertinimas, kuris, kaip ir protokolas, bus įtrauktas į ataskaitos priedą apie

visuomenės informavimą ir dalyvavimą PAV procedūrose ir pateiktas PAV subjektams ir Agentūrai. PAV rengėjas pasiūlymus raštu pateikusiam asmeniui raštu informuos, kaip įvertintas jo pasiūlymas.

Dalyvių registracija, susirinkimo vietoje ir nuotoliniu būdu, vyko viso susirinkimo metu.

Darbotvarkė. Susirinkimo pradžioje visi dalyviai buvo supažindinti su susirinkimo darbotvarke. Viešo susirinkimo metu buvo pristatytas PAV dokumentų rengėjas, užsakovas, apibūdinta planuojama ūkinė veikla ir supažindinta su parengta Ataskaita.

PAV ataskaitos pristatymas.

Pristačius parengtą PAV ataskaitą buvo skiriamas laikas diskusijai (klausimai, atsakymai, dalyvių pasisakymai).

Diskusijos, klausimai, atsakymai.

Klausimai, pasiūlymai. Ar atliekant triukšmo ir šešėliavimo vertinimą buvo įvertintos analizuojamos teritorijos gretimybėje jau esamos ir veikiančios vėjo jėgainės? Taip pat ar buvo įvertinta esamų vėjo jėgainių skleidžiama vibracija?

Atsakymas. Rengiant šią ataskaitą buvo įvertintos mūsų planuojamos vėjo jėgainės, jėgainės, kurios jau yra eksploatuojamos ir dar kitais projektais, 5 km spinduliu, suplanuotos vėjo jėgainės. Vertinimo metu buvo įvertintas suminis poveikis nuo visų anksčiau minėtų vėjo jėgainių. Ataskaitoje vibracijos poveikis taip pat yra įvertintas.

Klausimas, pasisakymas.
*(k*lausimas buvo skirtas dalyvei iš salės, kuri uždavė prieš tai klausimą). Ar Jūs patys, kada kreipėtės į atsakingas institucijas dėl juntamos vibracijos nuo jau veikiančių vėjo jėgainių? Mūsų patarimas būtų toks, kad Jūs, visada galite kreiptis į projekto vystytoją dėl juntamos vibracijos, triukšmo, šešėliavimo, kuris turėtų pasitikrinti ar jo vykdoma veikla atitinka visus reikalavimus. Nustačius viršijimus, pats vystytojas turi imtis priemonių, kad visa situacija būtų gerinama ir ji atitiktų teisinius reikalavimus. Nepavykus susitarti su veiklos vystytoju, visada galite kreiptis į atsakingas institucijas, kurios nustačiusios viršijimus, kreiptųsi į patį veiklos vystytoją su nurodymų imtis priemonių, padėsiančių užtikrinti situacijos atitikimą teisės aktų nustatytiems reikalavimams.

Klausimai, pasiūlymai. Kiek decibelų skleidžia vėjo jėgainės?

Atsakymas. Konkrečiai, mūsų nagrinėtu atveju, vertinome, kad mūsų planuojamos jėgainės skleis 106,9 dBA garsą. Šios vėjo jėgainės triukšmą skleis 180 metrų aukštyje. Atliekant triukšmo modeliavimą, triukšmo vertinimas buvo atliekamas 1,5 metrų aukštyje, kas yra vidutinis žmogaus ausies aukštis. Šis vertintas triukšmo lygis yra maksimalus galimas vėjo jėgainės keliamas triukšmas. Vystant toliau šį projektą, planuojamų vėjo jėgainių skleidžiamas triukšmas gali būti ir mažesnis, tai bus nulemta pasirinkus vėjo jėgainės modelį. Taip pat norime papildyti, kad pats triukšmo vertinimas buvo atliktas blogiausio scenarijaus atvejui, kai vertinamas mažiausias galimas vėjo jėgainės stiebo aukštis, kas sudaro geresnes galimybės triukšmo sklaidai. Didėjant stiebo aukščiui, triukšmas tik mažės.

Klausimai, pasiūlymai. Prie kokio vėjo greičio sklinda toks triukšmas? Ir kas vyksta esant ekstremaliems vėjo greičiams? Kokios galios bus vėjo jėgainės?

Atsakymas. Vertinime vertinta, kad planuojamų vėjo jėgainių galia bus 7,2 MW, bet kaip jau buvo minėta, jos gali būti ir mažesnės galios. Triukšmo vertinimas atliekamas prie 10 m/s vėjo greičio. Esant tokiam vėjo greičiui yra maksimalus vėjo jėgainės triukšmingumas. Mažėjant vėjo greičiui, atitinkamai mažėja ir vėjo jėgainės triukšmingumas. Esant uraganiniam vėjui, jėgainės apsaugos sistemos ją sustabdo ir ji nebesisuka. Jėgainė yra stabdoma, kai vėjo greitis yra 20-22 m/s.

Klausimai, pasiūlymai. Kodėl kito planuojamų vėjo jėgainių skaičius Kulvos seniūnijoje?

Atsakymas.
Planuojamų vėjo jėgainių skaičius Kulvos seniūnijoje nesikeitė, koks buvo numatytas pradžioje, toks yra vertinamas ir dabar. Jūs tikriausiai turite galvoje kitų vystytojų planuojamas vėjo jėgaines šioje seniūnijoje. Dėl kitų vystytojų planų mes negalime komentuoti.

Klausimai, pasiūlymai. 12 elektrinė, koks yra atstumas iki artimiausio gyvenamo namo? Šiai sodybai bus poveikis dėl šešėliavimo ir triukšmo? Gal būtų galima 12 vėjo jėgainę perstumti arčiau 11 vėjo jėgainės, nes paslinkus 12 vėjo jėgainę nebeliktų problemos. Kokios bus priemonės taikomos šešėliavimo mažinimui?

Atsakymas.
Nuo 12 vėjo jėgainės iki artimiausio gyvenamo namo atstumas yra 948 metrai. Reikėtų paaiškinti, kad dėl šešėliavimo bus taikomos priemonės, kurios padės mažinti jį iki atitikimo reikalavimams. Šiai sodybai dėl šešėliavimo nebeliks problemos, kai bus pritaikytos priemonės. Šešėliavimo mažinimui bus taikomas vėjo jėgainės stabdymas, ryto ir vakaro metu, kylant ir leidžiantis saulei, kada yra didžiausia tikimybė šešėliavimui. Jėgainės stabdymas vyks automatiškai, pagal nustatytą programą.

Klausimai, pasiūlymai. Ar galima pakeisti 12 vėjo jėgainės vietą? Nes čia ne vien šešėliavimo problema, bet ir vizualinė tarša.

Atsakymas. Vėjo jėgainės patraukimas nėra toks jau lengvas ir paprastas procesas. Mes fiksuojame Jūsų pasiūlymą, dėl vėjo jėgainės patraukimo, nes dabar mes negalime pateikti atsakymo dėl to. Mes šį Jūsų pasiūlymą išnagrinėsime.

Klausimai, pasiūlymai. Gyventojai iš Barsukinės kaimo, yra nepatenkinti dėl 10 vėjo jėgainės.

Atsakymas. yra susirinkime gyventojų iš Barsukinės kaimo, kurie norėtų pasisakyti? Nesant Barsukynės kaimo gyventojų, pasisakymo nebuvo sulaukta.

Klausimai, pasiūlymai. Kodėl Jūs klaidinat gyventojus dėl triukšmo? Kodėl nepasakot, kad pasisukus vėjui į sodybos pusę, garso bangos yra pernešamos geriau? Tai net nežinau, prie kokio vėjo ir į kurią pusę pučiančio pas Jus tie decibelai sumodeliuoti. Gal iš viso pamodeliuota nesant vėjo? Turbūt žinot, kad esant vėjui garsas persiduoda geriau.

Atsakymas. Vertinimo metu vėjas ir jo greitis buvo įvertinti. Vertinimo metu buvo priimta, kad vėjo greitis yra 10 m/s. Programinėje įrangoje yra suvesta vėjų rožė, kuri parodo visų metų vyraujančius vėjus.

Klausimai, pasiūlymai. Pas Jus žemėlapiuose matome žaliai pažymėtas kitas elektrines, kaip jos buvo vertintos?

Atsakymas. Kaip jau buvo minėta prieš tai, atliekant vertinimą buvo vertinamos esamos, jau veikiančios kitų vystytojų vėjo jėgainės, mūsų pačių naujai planuojamos ir 5 km spinduliu suplanuotos kitų vystytojų vėjo jėgainės, t.y. atliekant vertinimą buvo vertintas suminis poveikis.

Klausimai, pasiūlymai. Kiek reikia surinkti parašų, kad būtų galima nutraukti vėjo jėgainės eksploataciją? Tai yra jau esama, veikianti jėgainė.

Atsakymas. Dėl esamų jėgainių nelabai galime pakomentuoti. Kiek parašų tam reikia irgi negalime pakomentuoti. Tai jau kaip ir buvo minėta, jei turite nusiskundimų dėl esamų vėjo jėgainių veiklos, tai gal reikėtų nerinkti parašus, o kreiptis į atsakingas institucijas.

Klausimai, pasiūlymai. Kaip pasikeis nekilnojamo turto vertė gretimybėje atsiradus vėjo elektrinėms?

Atsakymas. Lietuvoje nėra atlikta tyrimų, kuriais mes galėtume remtis ir pagrįsti turto vertės pokyčius.
Atsakymas. Kaip ir minėjo, mano kolega Ugnius, Lietuvoje nėra atlikta tyrimų, tačiau buvo bandymų atlikti panašius vertinumus remiantis Nekilnojamojo turto registro duomenimis, nustatyta, jog atsiradus vėjo elektrinėms netoliese, turto vertė nekinta ir išlieka tokia pati. Labiau nekilnojamojo turto vertę įtakoja kiti veiksniai, tokie kaip: vieta, infrastruktūra, kiti turto vertę lemiantys veiksniai.
Klausimai, pasiūlymai. Kokioje stadijoje yra šis projektas?
Atsakymas. Šis projektas šiuo metu yra poveikio aplinkai vertinimo stadijoje. Parengta ataskaita yra pristatoma Jums – suinteresuotai visuomenei, laukiame Jūsų pasiūlymų, kuriuos vertinsime. Įvertinę Jūsų pateiktus motyvuotus pasiūlymus/pastabas, papildytą ataskaitą teiksime derinti atsakingoms institucijoms. Atsakingos institucijos savo ruoštu taip pat teiks pastabas ataskaitos rengėjui, kuris atitinkamai, pagal pateiktas pastabas, papildys ataskaitą. Gavus visų subjektų išvadas ataskaita bus teikiama sprendimą priimančiai institucijai – Aplinkos apsaugos agentūrai.
Klausimai, pasiūlymai. Išsianalizavus pateiktą informaciją, ataskaitoje nurodėte, jog ornitologiniai tyrimai buvo atlikti pasirinktuose šešiuose taškuose, mano klausimas ar šių taškų tikrai pakako įvertinti tiksliai esamą ornitologinę situaciją?
Atsakymas. Norint idealiai atlikti tyrimus gali prireikti ir dviejų ir trijų metų laikotarpio. Vadovaujantis esančiomis metodikomis, nurodyta, jog paukščių stebėseną turi būti atlikta iš tokių taškų, kurie apima visą analizuojamą teritoriją. Mano manymu, taškai pasirinkti tinkamai atsižvelgiant į vietovės reljefo ypatumus bei vietovės miškingumą.
Atsakymas. Norėčiau papildyti kolegą Mindaugą, ornitologas dirbdamas vietoje naudoja optinę įranga (teleskopai bei žiūronai). Teleskopo apimamas laukas yra apie 2 km, esant idealioms oro sąlygoms matomumo laukas gali būti ir didesnis. Ornitologas neatlieka lauko tyrimų plika akimi.
Klausimai, pasiūlymai. Ar buvo ieškota tyrimų metu naujų lizdų? Ar įvertinti tik seni ir žinomi lizdai?
Atsakymas. Buvo ieškota naujų lizdų. Mūsų parengtoje ataskaitoje visa ši informacija yra pateikta. Taip pat remtasi SRIS sistemos duomenimis, kur taip pat šie duomenys yra sukelti.
Klausimai, pasiūlymai. Domėjausi kitų ataskaitų rengėjų parengtomis ataskaitomis, jose yra nurodyta daugiau lizdų ir paukščių perskridimų nei jūsų informacijoje. Kaip vietinė gyventoja taip pat stebiu aplinką ir matau daugiau jautrių rūšių paukščių.
Atsakymas. Vertinant paukščių perskridimus visi ornitologai bei tuo besidomintys žmonės žino, kad tyrimų dieną užfiksuota informacija, kitą dieną gali būti kardinaliai jau kitokia. Šią tiesą tenka pripažinti. Atsakant į klausimą dėl neidentifikuotų naujų lizdų, tai 100 proc. identifikuoti lizdus taip pat beveik neįmanoma. Tai užima labai daug laiko, šiam darbui atlikti reikia ne vieno sezono.
Klausimai, pasiūlymai. Parengtoje ataskaitoje buvo parašyta, jog metai iki statybos bus parengta ir vykdoma monitoringo programa. Norėjau pasiteirauti ar tikrai ji bus parengta ir vykdoma?
Atsakymas. Paprastai yra taikoma tokia praktika, kad tie tyrimai, kurie buvo parengti poveikio aplinkai vertinimo ataskaitos rengimo metu bei vertinti, jie yra užskaitomi kaip tyrimai įgyvendinti iki veiklos pradžios. Pateikus šią ataskaita Valstybinei saugomų teritorijų tarnybai bei ją įvertinus kaip tinkamai atliktą bei išsamią, papildomų tyrimų nereikėtų atlikti.
Klausimai, pasiūlymai. Koks bus nustatytas sanitarinės apsaugos zonos spindulys?
Atsakymas. Pagal šiuo metu galiojančius teisės sanitarinė apsaugos zona vėjo elektrinėms nėra nustatinėjama. Šiuo metu yra reglamentuotas 4 stiebų atstumas nuo vėjo elektrinės.
Klausimai, pasiūlymai. Tai į 720 m atstumą pateks visas kainas ir jokios statybos ateityje neįmanomos.
Atsakymas. Vadovaujantis naujai reglamentuota tvarka, visuomeniniai pastatai negali būti statomi nustatytoje viršnorminėje triukšmo

zonoje, kuri konkrečiu mūsų atveju siekia 247-377 m nuo planuojamos VE. Už šios ribos ribojimų nėra, gyvenamieji ir kiti visuomeninės paskirties pastatai gali būti statomi.
Klausimai, pasiūlymai. Planuojate įgyvendinti didelio masto projektą. Yra normali praktika, jog savivaldybė/seniūnija prašo vystytojus pagerinti vietos gyventojų gyvenamąsias sąlygas. Gal esate jau įsipareigoję ar planuojate įsipareigoti?
Atsakymas. Noriu iškarto pasakyti, jog mūsų nereikėjo raginti prisidėti prie bendruomenių gerovės. Mūsų įmonėje taikoma praktika, kad nuo statybos pradžios mes teikiame finansinę paramą vietos bendruomenėms. Bendruomenės rengia projektus, nurodydamos, kokius poreikius savo aplinkoje norėtų pagerinti. Atsižvelgiant į bendruomenės poreikius yra skiriamos lėšos šių projektų įgyvendinimui. Taip pat pradėjus parkui veiklą, bus mokamas gamybos įmoką. Šiomis įmokomis galės pasinaudoti tiek fiziniai asmenys, tiek vietos benduomeninės organizacijos.
Klausimai, pasiūlymai. Ką reikėtų daryti, norint nukelti VE22 toliau nuo gyvenamųjų pastatų?
Atsakymas. Pirmiausia, mums reikėtų pateikti motyvuotus argumentus, kad galėtume suprasti kodėl norite patraukti šią elektrinę, kur turėtumėme ją traukti. Įvertinę visus argumentus, galėtume svarstyti elektrinės traukimo galimybes. Kviečiu rašyti motyvuotą pasiūlymą arba dabar diskutuojame šią akimirką.
Atsakymas. VE taškų parinkimą įtakoja daug faktorių (turimi sklypai, įvairios apsaugos zonos, gyventojai, miškai ir t.t.). Nagrinėjamu atveju, mus riboja aukštos įtampos linijos apsaugos zona.
Klausimai, pasiūlymai. Kas bus savininkas šių elektrinių? Ar parengus projektą elektrinės bus pardavinėjamos?
Atsakymas. Mūsų įmonė, UAB „Ignitis renewables projektai“ yra šio parko vystytojai ir jei pavyks parką iki galo išvystyti taip pat būsim ir jo savininkai. Į klausimą ar bus pardavinėjamos elektrinės, kol kas atsakyti negalime, nes nežinome šiai dienai.
Klausimai, pasiūlymai. Kaip atsidaryti langą naktį, esant dideliam vėjo elektrinių keliamam triukšmui?
Atsakymas. Pirmas mano patarimas Jums, kreiptis į veiklos vystytoją ir jam išsakyti savo problemas. Vystytojas savo ruožtu, turėtų atlikti triukšmo matavimo tyrimus ir imtis veiksmų jei triukšmo ribinės vertės yra viršijamos. Jei veiklos vystytojas nesiims jokių veiksmų problemai spręsti, siūlyčiau kreiptis į Nacionalinę visuomenės sveikatos tyrimų laboratoriją, kuri Jūsų užsakymu atliks šiuos matavimus ir bus imtasi veiksmų.
Klausimai, pasiūlymai. Kodėl esama bloga patirtis nėra pakankamas argumentas vėjo elektrinės vietos keitimui?
Atsakymas. Esama bloga patirtis kuo ją argumentuojate? Gal būt buvo atlikti laboratorijos tyrimai ir nustatyti vibracijos, triukšmo ar kitų ribinių verčių viršijimai? Jei būtumėte pateikę svarius argumentus pvz. su matavimų protokolais, tokiu atveju tikrai galėtume šį atvejį vertinti kaip blogą praktiką. Šiuo atveju tai tik Jūsų subjektyvi nuomonė.
Klausimai, pasiūlymai. Koks triukšmo lygis laikomas kenksmingu žmogui?
Atsakymas. 45 dbA nakties metu.
Klausimai, pasiūlymai. 8 MW elektrinė sukuria elektromagnetinį lauką. Kokiu atstumu nuo elektrinės būna poveikis?
Atsakymas. Ataskaitoje yra šis komponentas įvertintas. Vertinimas atliktas remiantis matavimų protokolais (jau veikiančiuose UAB ”Ignitis renewables projektai” parkuose) bei užsienio praktika, nustatytas, jog elektromagnetinės spinduliuotės poveikis minimalus ir nustatytos vertės labai mažos. Priimta išvada, jog nebus viršijamos reglamentuotos ribinės vertės artimiausioje gyvenamojoje aplinkoje.
Klausimai, pasiūlymai. Mažai informacijos apie poveikio aplinkai vertyinimo viešinimą. Vengiama bendrauti su visuomene. Nepasiruošta visiškai pristatymui.
Atsakymas. Stengėmės suteikti visą informaciją apie planuojamą veiklą ir jos poveikio aplinkai vertinimą: prieš PAV pradžią susitikimo su bendruomenėmis pristatėme projektą, papildomai informavome apie PAV ataskaitą ir viešinimo

renginį vietinėje spaudoje, skelbimų lentose, socialiniuose tinkluose. Labai gaila, kad neatvykote į pagrindinę susitikimo vietą. Prisijungus prie susitikimo ne pagrindinėje susitikimo vietoje, mes negalime užtikrinti tokios pat pristatymo kokybės.
Klausimai, pasiūlymai. Kada buvo paskelbta informacija laikraštyje apie šį susirinkimą?
Atsakymas. Ši informacija laikraštyje „Alio Jonava“ buvo paskelbta šių metų lapkričio 17 d.

Baigiantis diskusijai ir neatsiradus daugiau norinčių pasisakyti, susirinkimo pirmininkė kelis kartus paklausė visuomenės dalyvių ar dar kas nors turi klausimų. Neatsiradus daugiau klausimų, susirinkimas buvo skelbiamas baigtu.

Supažindinimo su ataskaita susirinkimas baigėsi 20:03 val.

2023 m. gruodžio 22 d.
Kaunas

2023 m. gruodžio 19 d.

18:00 val.

Viešo supažindinimo Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (PAV) ataskaita

DALYVIŲ SĄRAŠAS

Eil. Nr.	Vardas, Pavardė	Atstovaujama institucija, pareigos	Telefonas	Adresas	Parašas
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2023 m. gruodžio 19 d.

18:00 val.

Viešo supažindinimo Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (PAV) ataskaita

DALYVIŲ SĄRAŠAS

Eil. Nr.	Vardas, Pavardė	Atstovaujama institucija, pareigos	Telefonas	Adresas	Parašas
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13					
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Dėstomas seminaras

2023 m. gruodžio 19 d.

18:00 val.

Viešo supažindinimo Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (PAV) ataskaita

DALYVIŲ SĄRAŠAS

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2023 m. gruodžio 19 d.

18:00 val.

Viešo supažindinimo Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (PAV) ataskaita

DALYVIŲ SĄRAŠAS

Eil. Nr.	Vardas, Pavardė	Atstovaujama institucija, pareigos	Telefonas	Adresas	Parašas
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Kulvos seniūnija

2023 m. gruodžio 19 d.

18:00 val.

Viešo supažindinimo Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (PAV) ataskaita

DALYVIŲ SĄRAŠAS

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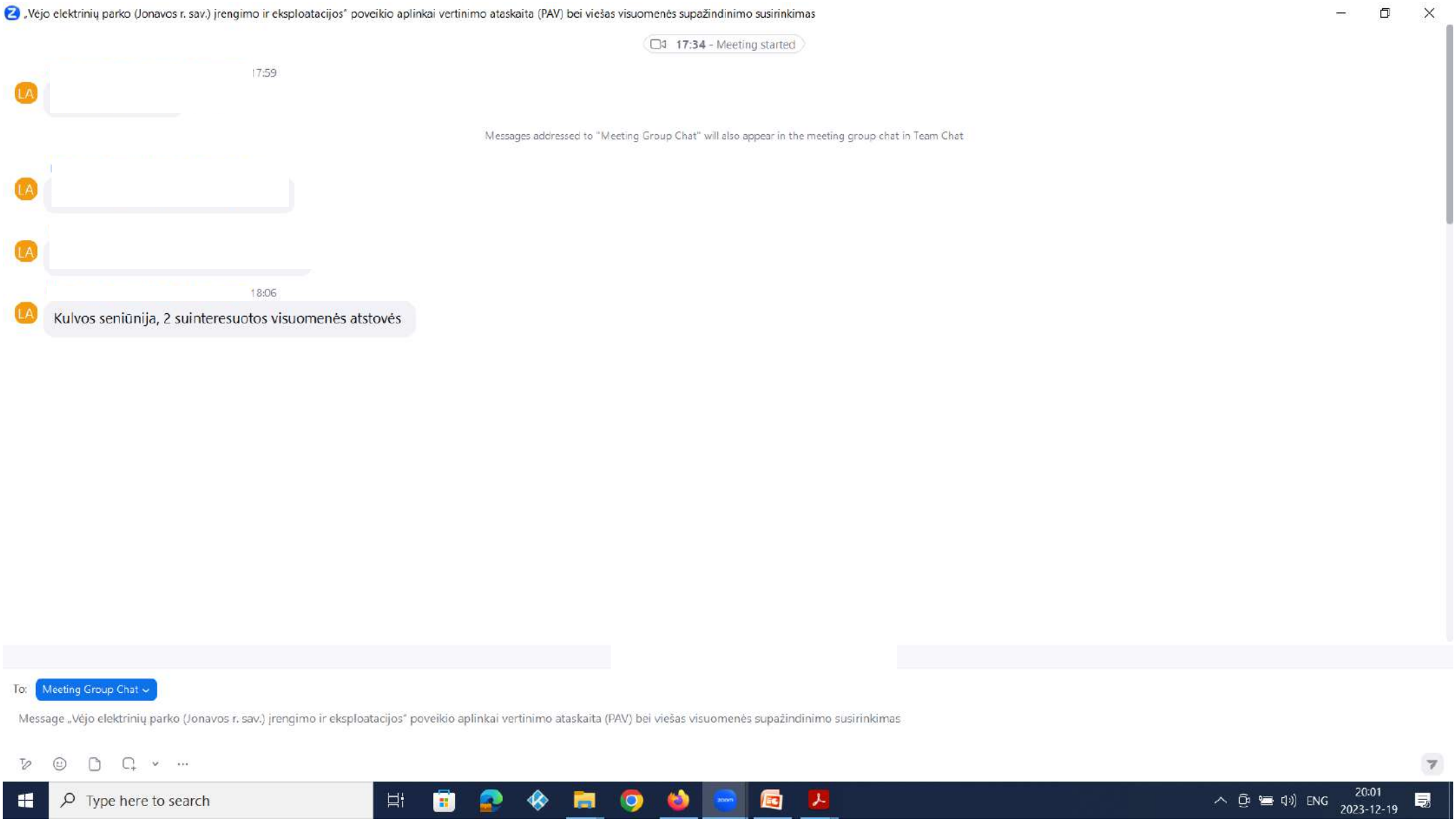
2023 m. gruodžio 19 d.

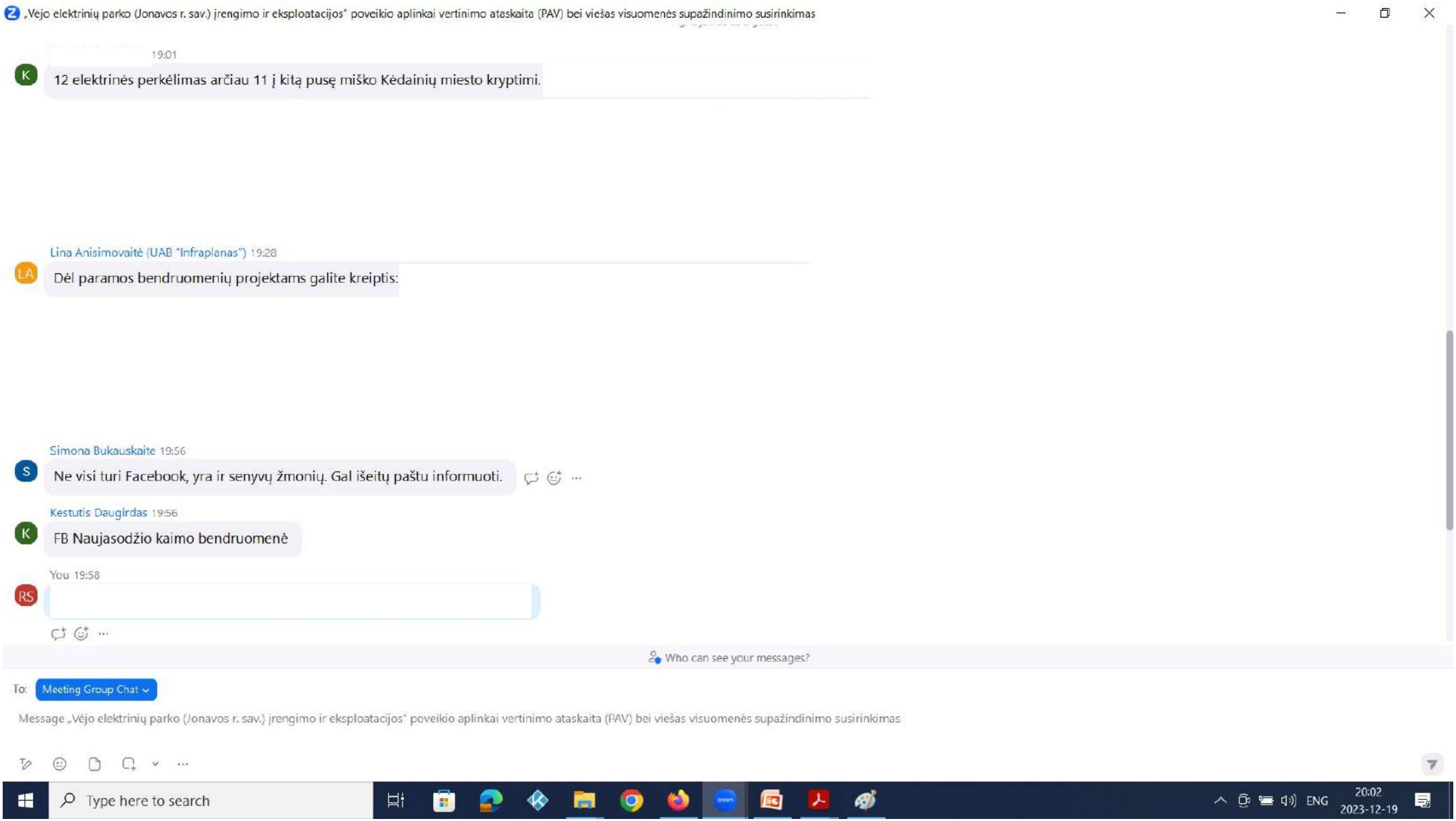
18:00 val.

Viešo supažindinimo Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (PAV) ataskaita

DALYVIŲ SĄRAŠAS

Eil. Nr.	Vardas, Pavardė	Atstovaujama institucija, pareigos	Telefonas	Adresas	Parašas
1					


„Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos" poveikio aplinkai vertinimo ataskaita (PAV) bei viešas visuomenės supažindinimo susirinkimas
17:34 - Meeting started
17:59
LA
Messages addressed to "Meeting Group Chat" will also appear in the meeting group chat in Team Chat
LA
LA
18:06
LA
Kulvos seniūnija, 2 suinteresuotos visuomenės atstovės
To: Meeting Group Chat
Message „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos" poveikio aplinkai vertinimo ataskaita (PAV) bei viešas visuomenės supažindinimo susirinkimas
Type here to search
ENG
20:01
2023-12-19


„Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos" poveikio aplinkai vertinimo ataskaita (PAV) bei viešas visuomenės supažindinimo susirinkimas
19:01
12 elektrinės perkėlimas arčiau 11 į kitą pusę miško Kėdainių miesto kryptimi.
Lina Anisimovaitė (UAB "Infraplanas") 19:28
Dėl paramos bendruomenių projektams galite kreiptis:
Simona Bukauskaite 19:56
Ne visi turi Facebook, yra ir senyvų žmonių. Gal išeitų paštu informuoti.
Kestutis Daugirdas 19:56
FB Naujasodžio kaimo bendruomenė
You 19:58
Who can see your messages?
To: Meeting Group Chat
Message „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos" poveikio aplinkai vertinimo ataskaita (PAV) bei viešas visuomenės supažindinimo susirinkimas
Type here to search
ENG
20:02
2023-12-19

3.3 Priedėlis. Atsakymai į gyventojų pasiūlymus

Visuomenės informavimo ir dalyvavimo planuojamos ūkinės veiklos poveikio aplinkai vertinimo procese tvarkos aprašo
2 priedas

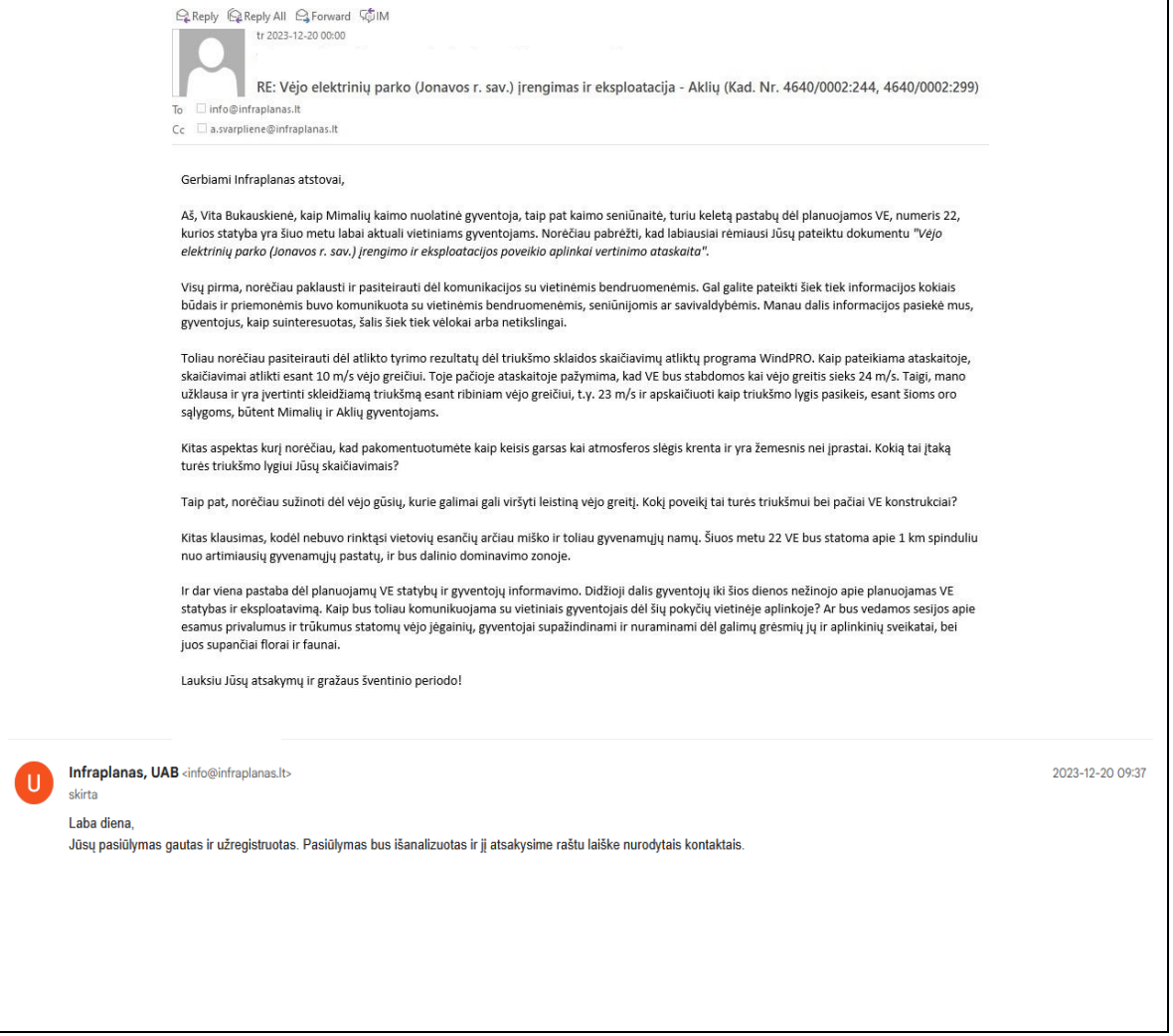
(Suinteresuotos visuomenės pasiūlymų registracijos forma)

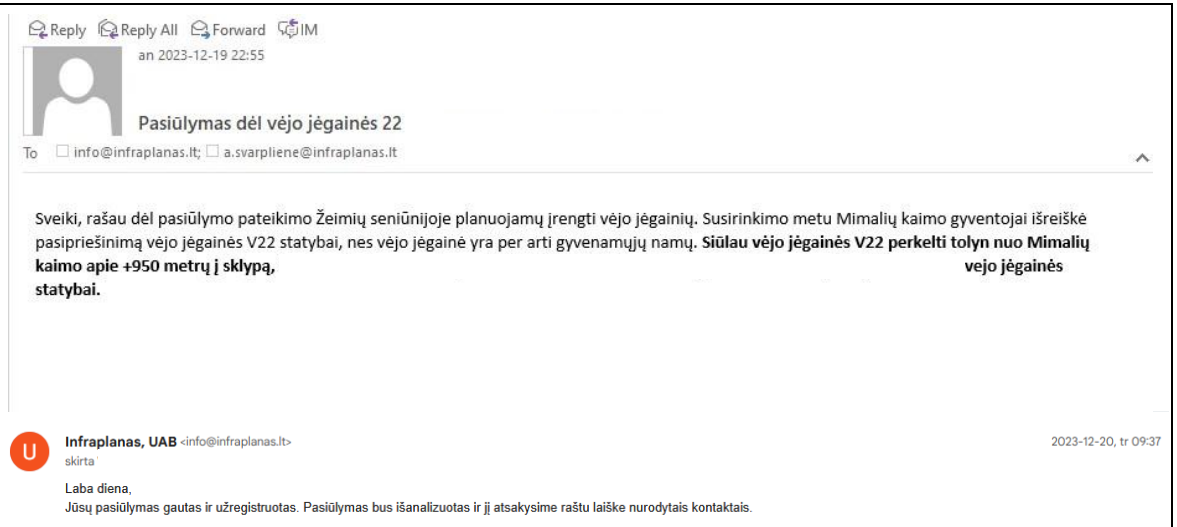
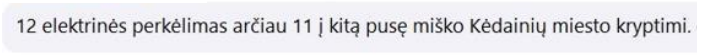
SUINTERESUOTOS VISUOMENĖS PASIŪLYMŲ DĖL

VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO (PAV) ATASKAITOS

REGISTRACIJA

Eil. Nr.	Suinteresuotos visuomenės pasiūlymo gavimo diena	Suinteresuotos visuomenės pasiūlymo siuntėjas (nurodoma, ar pasiūlymas gautas iš Agentūros, planuojamos ūkinės veiklos organizatoriaus, ar tiesiogiai iš suinteresuotos visuomenės atstovo)	Suinteresuotos visuomenės pasiūlymas
1	2	3	4

2	2023-12-19	Suinteresuotos visuomenės atstovė Pasiūlymas gautas el. paštu.	 Reply Reply All Forward IM tr 2023-12-20 00:00 RE: Vėjo elektrinių parko (Jonavos r. sav.) įrengimas ir eksploatacija - Aklių (Kad. Nr. 4640/0002:244, 4640/0002:299) To info@infraplanas.lt Cc a.svarpliene@infraplanas.lt Gerbiami Infraplanas atstovai, Aš, Vita Bukauskienė, kaip Mimalių kaimo nuolatinė gyventoja, taip pat kaimo seniūnaitė, turiu keletą pastabų dėl planuojamos VE, numeris 22, kurios statyba yra šiuo metu labai aktuali vietiniams gyventojams. Norėčiau pabrėžti, kad labiausiai rėmiausi Jūsų pateiktu dokumentu *"Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaita"*. Visų pirma, norėčiau paklausti ir pasiteirauti dėl komunikacijos su vietinėmis bendruomenėmis. Gal galite pateikti šiek tiek informacijos kokiais būdais ir priemonėmis buvo komunikuota su vietinėmis bendruomenėmis, seniūnijomis ar savivaldybėmis. Manau dalis informacijos pasiekė mus, gyventojus, kaip suinteresuotas, šalis šiek tiek vėlokai arba netikslingai. Toliau norėčiau pasiteirauti dėl atlikto tyrimo rezultatų dėl triukšmo sklaidos skaičiavimų atliktų programa WindPRO. Kaip pateikiama ataskaitoje, skaičiavimai atlikti esant 10 m/s vėjo greičiui. Toje pačioje ataskaitoje pažymima, kad VE bus stabdomos kai vėjo greitis sieks 24 m/s. Taigi, mano užklausa ir yra įvertinti skleidžiamą triukšmą esant ribiniam vėjo greičiui, t.y. 23 m/s ir apskaičiuoti kaip triukšmo lygis pasikeis, esant šioms oro sąlygoms, būtent Mimalių ir Aklių gyventojams. Kitas aspektas kurį norėčiau, kad pakomentuotumėte kaip keisis garsas kai atmosferos slėgis krenta ir yra žemesnis nei įprastai. Kokią tai įtaką turės triukšmo lygiui Jūsų skaičiavimais? Taip pat, norėčiau sužinoti dėl vėjo gūsių, kurie galimai gali viršyti leistiną vėjo greitį. Kokį poveikį tai turės triukšmui bei pačiai VE konstrukciai? Kitas klausimas, kodėl nebuvo rinktąsi vietovių esančių arčiau miško ir toliau gyvenamųjų namų. Šiuos metu 22 VE bus statoma apie 1 km spinduliu nuo artimiausių gyvenamųjų pastatų, ir bus dalinio dominavimo zonoje. Ir dar viena pastaba dėl planuojamų VE statybų ir gyventojų informavimo. Didžioji dalis gyventojų iki šios dienos nežinojo apie planuojamas VE statybas ir eksploatavimą. Kaip bus toliau komunikuojama su vietiniais gyventojais dėl šių pokyčių vietinėje aplinkoje? Ar bus vedamos sesijos apie esamus privalumus ir trūkumus statomų vėjo jėgainių, gyventojai supažindinami ir nuraminami dėl galimų grėsmių jų ir aplinkinių sveikatai, bei juos supančiai florai ir faunai. Lauksiu Jūsų atsakymų ir gražaus šventinio periodo! U **Infraplanas, UAB** <info@infraplanas.lt> 2023-12-20 09:37 skirta Laba diena, Jūsų pasiūlymas gautas ir užregistruotas. Pasiūlymas bus išanalizuotas ir jį atsakysime raštu laiške nurodytais kontaktais.

3	2023-12-19	Suinteresuotos visuomenės atstovas Pasiūlymas gautas el. paštu.	
4	2023-12-19	Suinteresuotos visuomenės atstovas Pasiūlymas gautas susirinkimo metu	

Visuomenės informavimo ir dalyvavimo planuojamos ūkinės veiklos poveikio aplinkai vertinimo procese tvarkos aprašo
3 priedas

SUINTERESUOTOS VISUOMENĖS PASIŪLYMŲ DĖL

Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (toliaus – PAV) ataskaitos

Pasiūlymai gauti poveikio aplinkai vertinimo ataskaitos ir atliekamo poveikio aplinkai vertinimo etapu

ĮVERTINIMAS

Eil. Nr.	Suinteresuotos visuomenės pasiūlymas	Suinteresuotos visuomenės pasiūlymų grupės pagal temas (pvz., vandens tarša, oro tarša, triukšmas, kvapai)	Suinteresuotos visuomenės pasiūlymas priimtas ar priimtas iš dalies, ar atmestas	Suinteresuotos visuomenės pasiūlymo priėmimo ar atmetimo motyvai
1	2	3	4	5
1.	Visų pirma, norėčiau paklausti ir pasiteirauti dėl komunikacijos su vietinėmis bendruomenėmis. Gal galite pateikti šiek tiek informacijos kokiais būdais ir priemonėmis buvo komunikuota su vietinėmis bendruomenėmis, seniūnijomis ar savivaldybėmis. Manau dalis informacijos pasiekė mus, gyventojus, kaip suinteresuotas, šalis šiek tiek vėlokai arba netikslingai.	Visuomenės informavimas	Atmestas	Su seniūnijomis ir savivaldybėmis buvo bendraujama vadovaujantis Lietuvos Respublikos aplinkos ministro 2023 m. gegužės 23 d. įsakymu Nr. D1-157 „Visuomenės informavimo ir dalyvavimo planuojamos ūkinės veiklos poveikio aplinkai vertinimo procese tvarkos aprašo“ V skyriaus nuostatomis „Visuomenės informavimas apie parengtą poveikio aplinkai vertinimo ataskaitą ir viešas visuomenės supažindinimas su poveikio aplinkai vertinimo ataskaita“. Informaciniai pranešimai apie parengtą ataskaitą buvo patalpinti Jonavos ir Kėdainių r. laikraščiuose „Alio Jonava“ bei „Aikštės rinka“ (2023-11-17 d.). Taip pat šis pranešimas buvo patalpintas ir atitinkamų savivaldybių internetiniuose puslapiuose. Pradėjus organizuoti susitikimą su gyventojais ir jo vietą buvo bendraujama su seniūnais bei seniūnijų darbuotojais dėl vietos suderinimo, taip pat 2023 m. lapkričio 17 d. popierinės ataskaitos versijos buvo pristatytos į kiekvieną seniūniją gyventojų susipažinimui. Taip pat ataskaita buvo patalpinta PAV ataskaitos rengėjų internetiniame puslapyje www.infraplanas.lt skiltyje naujienos.
2.	Toliau norėčiau pasiteirauti dėl atlikto tyrimo rezultatų dėl triukšmo sklaidos skaičiavimų atliktų programa WindPRO. Kaip pateikiama ataskaitoje, skaičiavimai atlikti esant 10 m/s	Triukšmas	Atmestas	Programinėje įrangoje WindPro vėjo elektrinių visi techniniai parametrai, tame tarpe ir skleidžiamas triukšmas prie tam tikro vėjo greičio yra integruoti ir nėra galimybių šios informacijos koreguoti. Pridedu programinės įrangos lango iškarpą, kurioje matosi visa informacija. Vėjo greitis yra identiškas jau nuo 6 m/s vėjo.

	vėjo greičiui. Toje pačioje ataskaitoje pažymima, kad VE bus stabdomos kai vėjo greitis sieks 24 m/s. Taigi, mano užklausa ir yra įvertinti skleidžiamą triukšmą esant ribiniam vėjo greičiui, t.y. 23 m/s ir apskaičiuoti kaip triukšmo lygis pasikeis, esant šioms oro sąlygoms, būtent Mimalių ir Aklių gyventojams.			
3.	Kitas aspektas kurį norėčiau, kad pakomentuotumėte kaip keisis garsas kai atmosferos slėgis krenta ir yra žemesnis nei įprastai. Kokią tai įtaką turės triukšmo lygiui Jūsų skaičiavimais?	Triukšmas	Atmestas	Slėgio įtakos triukšmo sklaidai nustatyti nėra galimybių. Programinėje įrangoje WindPro yra integruotos meteorologinės sąlygos pagal Kauno meteorologinės stoties parametrus. Yra galimybė koreguoti tik saulėtų dienų skaičių, kuris vertinimo metu buvo priimtas vidutinis mėnesio kiekis.
4.	Taip pat, norėčiau sužinoti dėl vėjo gūsių, kurie galimai gali viršyti leistiną vėjo greitį. Kokį poveikį tai turės triukšmui bei pačiai VE konstrukcijai?	Triukšmas	Atmestas	Nuo 6 m/s vėjo elektrinė skleidžia tokio patį triukšmo lygį. Esant stipresniam vėjui nei 24 m/s vėjo elektrinė automatiškai sustoja.
5.	Kitas klausimas, kodėl nebuvo rinktąsi vietovių esančių arčiau miško ir toliau gyvenamųjų namų. Šiuos metu 22 VE bus statoma apie 1 km spinduliu nuo artimiausių gyvenamųjų pastatų, ir bus dalinio dominavimo zonoje.	Miškai	Atmestas	Atsakydami į Jūsų pasiūlymą, informuojame, kad vadovaudamiesi LR Aplinkos ministerijos įsakymu „Dėl detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašo patvirtinimo“ (patvirtintas 2023 m. gruodžio 12 d. Nr. D1-406), 4.6 punkto nuostatomis, nuo planuojamos VE atstumas turi būti ne mažesnis nei 200 m atstumas, jį skaičiuojant iki rotoriaus mentės horizontalioje pozicijoje. Perkėlę 22 VE į Jūsų siūlomą sklypą negalėsime išlaikyti atstumų nurodytų anksčiau minėtame įstatyme ir vėjo elektrinių sukeliamas poveikis gali būti reikšmingas paukščiams ir šikšnosparniams. Ataskaitoje analizuota 22 VE vieta nuo gyvenamųjų pastatų nutolusi 963 – 1296 m, triukšmo ribinės vertės nėra viršijamos, o šešėliavimo ribinėms vertėms užtikrinti bus įdiegiama šešėliavimo mažinimo priemonė. Manome, kad atstumas iki gyvenamųjų pastatų yra pakankamas ir neturėtų reikšmingai įtakoti gyventojų gerovės.

6.	Ir dar viena pastaba dėl planuojamų VE statybų ir gyventojų informavimo. Didžioji dalis gyventojų iki šios dienos nežinojo apie planuojamas VE statybas ir eksploatavimą. Kaip bus toliau komunikuojama su vietiniais gyventojais dėl šių pokyčių vietinėje aplinkoje? Ar bus vedamos sesijos apie esamus privalumus ir trūkumus statomų vėjo jėgainių, gyventojai supažindinami ir nuraminami dėl galimų grėsmių jų ir aplinkinių sveikatai, bei juos supančiai florai ir faunai.	Visuomenės informavimas	Priimtas iš dalies	Vadovaujantis Tvarkos aprašo 47 punktu, Pateikus suderintą su PAV subjektais PAV ataskaitą Aplinkos apsaugos agentūrai (toliau - Agentūra) suinteresuotoji visuomenė turi teisę Agentūrai teikti pasiūlymus, kurie bus apsvarstyti su suinteresuotos visuomenės atstovais prieš Agentūrai priimant sprendimą dėl planuojamos ūkinės veiklos poveikio aplinkai. Pasiūlymų teikimo terminas – 10 darbo dienų nuo pranešimo paskelbimo dienos. Pasiūlymai, gauti pasibaigus šiam terminui, nenagrinėjami. Gavus teigiamą Agentūros sprendimą dėl PAV, vėjo elektrinių projektavimo metu, rengiami projektiniai pasiūlymai privalo būti viešinami Lietuvos Respublikos aplinkos ministras 2016 m. lapkričio 7 d. įsakymo Nr. D1-738 „Dėl statybos techninio reglamento STR 1.04.04:2017 „Statinio projektavimas, projekto ekspertizė“ nustatyta tvarka. Visuomenei susipažinti su projektiniais pasiūlymais skiriama ne mažiau kaip 10 darbo dienų nuo pranešimo savivaldybės interneto svetainėje paskelbimo dienos; organizuojamas viešas susirinkimas projektiniams pasiūlymams pristatyti ir visuomenės pasiūlymams aptarti. Vadovaujantis Atsinaujinančiųjų ištekių energijos įstatymo 49 straipsnio 15 dalies nuostatomis, vėjo elektrinių vystytojas privalo registruotu laišku, įteikiamu pasirašytinai, informuoti žemės sklypų, (išskyrus miškų ūkio paskirties žemės sklypus), ir tam tikros paskirties pastatų1, jeigu tokių yra, patenkančių į teritorijas, esančias tarp teritorijos su statybos apribojimais ir šio straipsnio 9 dalyje nurodyto atstumo (t. y. vėjo elektrinės stiebo aukštis metrais, padaugintas iš 4), savininkus apie planuojamą statyti didesnės kaip 30 kW įrengtosios galios vėjo elektrinę, pateikdamas informaciją apie numatomą vykdyti veiklą, vėjo elektrinės įrengtąją galią, tikslią veiklos vykdymo teritoriją, nurodant žemės sklypų unikalius numerius, jos plotą, galimus apribojimus dėl naujų numatytos paskirties pastatų statybos ir (ar) patalpų įrengimo, teritorijų rekreacijai planavimo, taip pat teisę pateikti prieštaravimą raštu dėl vėjo elektrinės statybos per 20 darbo dienų nuo informacijos gavimo ir (arba) sudaryti šioje dalyje nurodytą susitarimą.
7.	VE Nr. 12 perkėlimas arčiau 11 VE į kitą pusę miško Kėdainių miesto kryptimi.	Alternatyvų parinkimas	Atmestas	Atsakydami į Jūsų pasiūlymą, informuojame, kad vadovaudamiesi LR Aplinkos ministerijos įsakymu „Dėl detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašo patvirtinimo“ (patvirtintas 2023 m. gruodžio 12 d. Nr. D1-406), 4.6 punkto nuostatomis, nuo planuojamos VE atstumas turi būti ne mažesnis nei 200 m atstumas, jį skaičiuojant iki rotoriaus mentės horizontalioje pozicijoje. Perkėlę 12 VE į Jūsų siūlomą vietą esamame sklype pagal turimą nuomos sutartį su sklypo savininku negalėsime išlaikyti atstumų nurodytų anksčiau minėtame

				įstatyme ir vėjo elektrinių sukeliamas poveikis gali būti reikšmingas paukščiams ir šikšnosparniams, taip pat būtų neišlaikomas atstumas tarp 12 VE ir 11 VE jėgainių jų darbui ir saugumui užtikrinti. Ataskaitoje analizuota 12 VE vieta nuo Jūsų gyvenamojo pastato nutolusi ~948 m, triukšmo ribinės vertės nėra viršijamos, šešėliavimo ribinėms vertės nėra viršijamos. Manome, kad atstumas iki Jūsų gyvenamojo pastato yra pakankamas ir neturėtų reikšmingai įtakoti gyvenimo kokybės.
8.	Susirinkimo metu Mimalių kaimo gyventojai išreiškė pasipriešinimą vėjo jėgainės V22 statybai, nes vėjo jėgainė yra per arti gyvenamųjų namų. Siūlau vėjo jėgainės V22 perkelti tolyn nuo Mimalių kaimo apie +950 metrų į sklypą, kurio unikalus numeris yra 4640-0002-0090. Esu šio sklypo savininkas ir galiu jį išnuomoti vėjo jėgainės statybai.	Vietos analizė	Atmestas	Atsakydami į Jūsų pasiūlymą, informuojame, kad vadovaudamiesi LR Aplinkos ministerijos įsakymu „Dėl detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašo patvirtinimo“ (patvirtintas 2023 m. gruodžio 12 d. Nr. D1-406), 4.6 punkto nuostatomis, nuo planuojamos VE atstumas turi būti ne mažesnis nei 200 m atstumas, jį skaičiuojant iki rotoriaus mentės horizontalioje pozicijoje. Perkėlę 22 VE į Jūsų siūlomą sklypą negalėsime išlaikyti atstumų nurodytų anksčiau minėtame įstatyme ir vėjo elektrinių sukeliamas poveikis gali būti reikšmingas paukščiams ir šikšnosparniams. Ataskaitoje analizuota 22 VE vieta nuo gyvenamųjų pastatų nutolusi 963 – 1296 m, triukšmo ribinės vertės nėra viršijamos, o šešėliavimo ribinėms vertėms užtikrinti bus įdiegiama šešėliavimo mažinimo priemonė. Manome, kad atstumas iki gyvenamųjų pastatų yra pakankamas ir neturėtų reikšmingai įtakoti gyventojų gerovės.

UŽDARA AKCINĖ BENDROVĖ „INFRAPLANAS“

Inovacijų g. 3, Biruliškių k., LT-54469 Kauno r., Į.k. 160421745, PVM k. LT604217417, el. p.: info@infraplanas.lt

2024-01-09 Nr. S-2024-04
Į 2023-12-19

DĖL VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO (PAV) ATASKAITOS

UAB „Infraplanas“ 2023 m. gruodžio 19 d. gavo Jūsų pasiūlymą (toliau – Pasiūlymas) parengtai Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (PAV) ataskaitai. UAB „Infraplanas“ kartu su planuojamos ūkinės veiklos (toliau – PŪV) organizatoriumi UAB „Ignitis renewables projektai“ išnagrinėjo Jūsų 2023 m. gruodžio 19 d. Pasiūlymą ir teikia sekančius paaiškinimus.

Visų pirma, norėčiau paklausti ir pasiteirauti dėl komunikacijos su vietinėmis bendruomenėmis. Gal galite pateikti šiek tiek informacijos kokiais būdais ir priemonėmis buvo komunikuota su vietinėmis bendruomenėmis, seniūnijomis ar savivaldybėmis. Manau dalis informacijos pasiekė mus, gyventojus, kaip suinteresuotas, šalis šiek tiek vėlokai arba netikslingai.

Visuomenė, seniūnijos ir savivaldybės buvo informuotos apie poveikio aplinkai vertinimo (PAV) pradžią vadovaujantis Lietuvos Respublikos aplinkos ministro 2023 m. gegužės 23 d. įsakymu Nr. D1-157 „Visuomenės informavimo ir dalyvavimo planuojamos ūkinės veiklos poveikio aplinkai vertinimo procese tvarkos aprašo“ (toliau – Tvarkos aprašas) IV skyriaus nuostatomis „Pranešimo apie poveikio aplinkai vertinimo pradžios paskelbimą“. Informacinis pranešimas apie poveikio aplinkai vertinimo (PAV) pradžią buvo patalpintas Jonavos laikraštyje „Alio Jonava“ (2023-10-20 d.). Taip pat šis pranešimas buvo patalpintas Jonavos savivaldybės internetiniame puslapyje. Seniūnijos apie gautą informacinį pranešimą informavo ataskaitos rengėją el. paštu su seniūnijos gavimo žyma. Taip pat informacinis pranešimas apie PAV pradžią buvo patalpinta PAV ataskaitos rengėjų internetiniame puslapyje www.infraplanas.lt skiltyje naujienos. Suinteresuota visuomenė galėjo teikti pasiūlymus dėl pradėto PAV Agentūrai ir PAV dokumentų rengėjui arba planuojamos ūkinės veiklos organizatoriui per 10 darbo dienų nuo dienos, kai pranešimą apie PAV pradžią paskelbė Agentūra (2023-10-19).

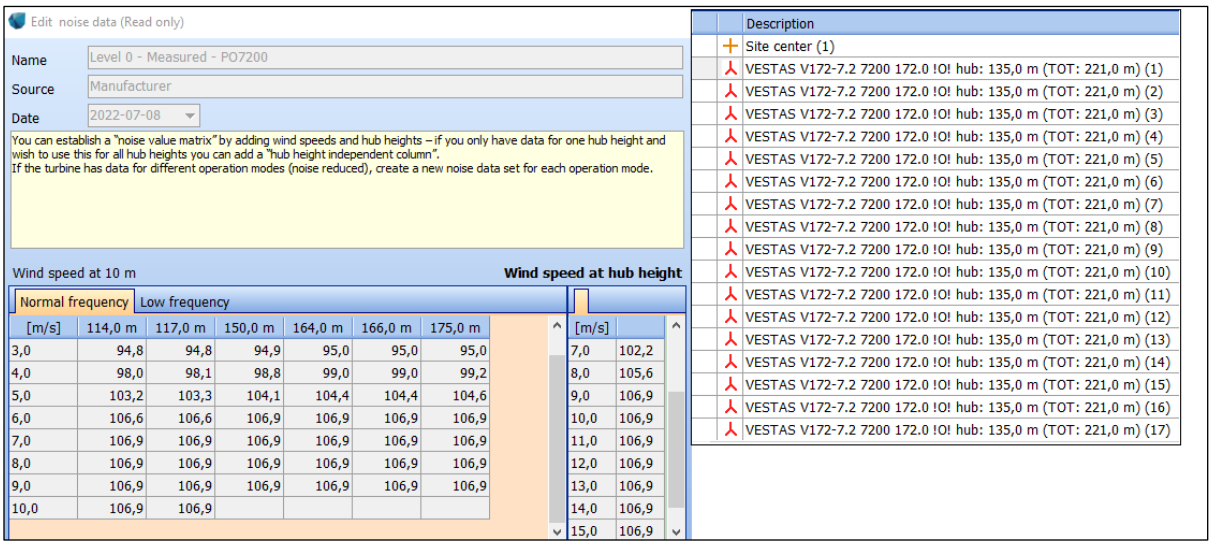
Parengus ataskaitą visuomenė, seniūnijos ir savivaldybės buvo informuotos vadovaujantis Lietuvos Respublikos aplinkos ministro 2023 m. gegužės 23 d. įsakymu Nr. D1-157 „Visuomenės informavimo ir dalyvavimo planuojamos ūkinės veiklos poveikio aplinkai vertinimo procese tvarkos aprašo“ (toliau – Tvarkos aprašas) V skyriaus nuostatomis „Visuomenės informavimas apie parengtą poveikio aplinkai vertinimo ataskaitą ir viešas visuomenės supažindinimas su poveikio aplinkai vertinimo ataskaita“. Informaciniai pranešimai apie parengtą ataskaitą buvo patalpinti Jonavos ir Kėdainių r. laikraščiuose „Alio Jonava“ bei „Aikštės rinka“ (2023-11-17 d.). Taip pat šis pranešimas buvo patalpintas ir atitinkamų

savivaldybių internetiniuose puslapiuose. Pradėjus organizuoti susitikimą su gyventojais ir jo vietą buvo bendraujama su seniūnais bei seniūnijų darbuotojais dėl vietos suderinimo, taip pat 2023 m. lapkričio 17 d. popierinės ataskaitos versijos buvo pristatytos į kiekvieną seniūniją gyventojų susipažinimui. Taip pat ataskaita buvo patalpinta PAV ataskaitos rengėjų internetiniame puslapyje www.infraplanas.lt skiltyje naujienos.

UAB ,,Ignitis renewables projektai", siekdami kuo didesnės informacijos apie PAV sklaidos ir dialogo su vietos gyventojais papildomai įgyvendino šias sklaidos priemones: 2023 m. spalio 10 d. Žeimiuose suorganizavo pirminį ir neformalų projekto ir tolimesnių žingsnių pristatymą bendruomenei (po pristatymo informacija apie projektą ir renginį buvo išspausdinta Jonavos r. laikraštyje ,,Alio Jonava" laikraštyje. Užsakė ir gruodžio 9 d. patalpino skelbimus Jonavos r. laikraštyje „Alio Jonava" ir šio laikraščio internetinėje svetainėje. Gruodžio 13 d. Pėdžių, Kuigalių, Barsukinės, Liepkalnio, Blauzdžių, Svalkenių, Aklių, Normainėlių kaimuose iškabino skelbimus. Gruodžio 15 d. išsiuntė el. paštu kvietimą Žeimių, Kulvos ir Pelėdnagių (Kėdainių raj.) seniūnijoms, Žeimių, Juškonių, Barupės, Naujasodžio, Kulvos, Vanagiškių, Ručiūnų bendruomenių pirmininkams, Jonavos rajono savivaldybei, kad pasidalintų socialiniuose tinkluose.

Toliau norėčiau pasiteirauti dėl atlikto tyrimo rezultatų dėl triukšmo sklaidos skaičiavimų atliktų programa WindPRO. Kaip pateikiama ataskaitoje, skaičiavimai atlikti esant 10 m/s vėjo greičiui. Toje pačioje ataskaitoje pažymima, kad VE bus stabdomos kai vėjo greitis sieks 24 m/s. Taigi, mano užklausa ir yra įvertinti skleidžiamą triukšmą esant ribiniam vėjo greičiui, t.y. 23 m/s ir apskaičiuoti kaip triukšmo lygis pasikeis, esant šioms oro sąlygoms, būtent Mimalių ir Aklių gyventojams.

Programinėje įrangoje WindPro vėjo elektrinių visi techniniai parametrai, tame tarpe ir skleidžiamas triukšmas prie tam tikro vėjo greičio yra integruoti ir nėra galimybių šios informacijos koreguoti. Pridedu programinės įrangos lango iškarpą, kurioje matosi visa informacija. Didėjantis vėjo greitis, neįtakoja elektrinės triukšmingumo. Esant didesniam vėjo greičiui nei 6 m/s elektrinės triukšmingumas pasiekia maksimalią reikšmę ir didėjant vėjo greičiui triukšmingumas nekinta ir išlieka toks pat.



Kitas aspektas kurį norėčiau, kad pakomentuotumėte kaip keisis garsas kai atmosferos slėgis krenta ir yra žemesnis nei įprastai. Kokią tai įtaką turės triukšmo lygiui Jūsų skaičiavimais?

Slėgio įtakos triukšmo sklaidai nustatyti nėra galimybių. Programinėje įrangoje WindPro yra integruotos metereologinės sąlygos pagal Kauno meteorologinės stoties parametrus. Yra galimybė koreguoti tik saulėtų dienų skaičių, kuris vertinimo metu buvo priimtas vidutinis mėnesio kiekis.

Taip pat, norėčiau sužinoti dėl vėjo gūsių, kurie galimai gali viršyti leistiną vėjo greitį. Kokį poveikį tai turės triukšmui bei pačiai VE konstrukcijai?

Nuo 6 metrų/s vėjo elektrinė skleidžia tokio patį triukšmo lygį. Esant stipresniam vėjui nei 24 m/s vėjo elektrinė automatiškai sustoja.

Kitas klausimas, kodėl nebuvo rinktąsi vietovių esančių arčiau miško ir toliau gyvenamųjų namų. Šiuos metu 22 VE bus statoma apie 1 km spinduliu nuo artimiausių gyvenamųjų pastatų, ir bus dalinio dominavimo zonoje.

Atsakydami į Jūsų pasiūlymą, informuojame, kad vadovaudamiesi LR Aplinkos ministerijos įsakymu „Dėl detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašo patvirtinimo“ (patvirtintas 2023 m. gruodžio 12 d. Nr. D1-406), 4.6 punkto nuostatomis, nuo planuojamos VE atstumas turi būti ne mažesnis nei 200 m atstumas, jį skaičiuojant iki rotoriaus mentės horizontalioje pozicijoje. Perkėlę 22 VE į Jūsų siūlomą sklypą negalėsime išlaikyti atstumų nurodytų anksčiau minėtame įstatyme ir vėjo elektrinių sukeliamas poveikis gali būti reikšmingas paukščiams ir šikšnosparniams.

Ataskaitoje analizuota 22 VE vieta nuo gyvenamųjų pastatų nutolusi 963 – 1296 m, triukšmo ribinės vertės nėra viršijamos, o šešėliavimo ribinėms vertėms užtikrinti bus įdiegiama šešėliavimo mažinimo priemonė. Manome, kad atstumas iki gyvenamųjų pastatų yra pakankamas ir neturėtų reikšmingai įtakoti gyventojų gerovės.

Ir dar viena pastaba dėl planuojamų VE statybų ir gyventojų informavimo. Didžioji dalis gyventojų iki šios dienos nežinojo apie planuojamas VE statybas ir eksploatavimą. Kaip bus toliau komunikuojama su vietiniais gyventojais dėl šių pokyčių vietinėje aplinkoje? Ar bus vedamos sesijos apie esamus privalumus ir trūkumus statomų vėjo jėgainių, gyventojai supažindinami ir nuraminami dėl galimų grėsmių jų ir aplinkinių sveikatai, bei juos supančiai florai ir faunai.

Teisės aktų reikalavimai numato privalomas konsultacijas su visuomene Vėjo elektrinių parko projekto įgyvendinimo eigoje.

Vadovaujantis Tvarkos aprašo 47 punktu, Pateikus suderintą su PAV subjektais PAV ataskaitą Aplinkos apsaugos agentūrai (toliau - Agentūra) suinteresuotoji visuomenė turi teisę Agentūrai teikti pasiūlymus, kurie bus apsvarstyti su suinteresuotos visuomenės atstovais prieš Agentūrai priimant sprendimą dėl planuojamos ūkinės veiklos poveikio aplinkai. Pasiūlymų teikimo terminas – 10 darbo dienų nuo pranešimo paskelbimo dienos. Pasiūlymai, gauti pasibaigus šiam terminui, nenagrinėjami.

Gavus teigiamą Agentūros sprendimą dėl PAV, vėjo elektrinių projektavimo metu, rengiami projektiniai pasiūlymai privalo būti viešinami Lietuvos Respublikos aplinkos ministras 2016 m. lapkričio 7 d. įsakymo Nr. D1-738 „Dėl statybos techninio reglamento STR 1.04.04:2017 „Statinio projektavimas, projekto

ekspertizė“ nustatyta tvarka. Visuomenei susipažinti su projektiniais pasiūlymais skiriama ne mažiau kaip 10 darbo dienų nuo pranešimo savivaldybės interneto svetainėje paskelbimo dienos; organizuojamas viešas susirinkimas projektiniams pasiūlymams pristatyti ir visuomenės pasiūlymams aptarti.

Vadovaujantis Atsinaujinančiųjų ištekių energijos įstatymo 49 straipsnio 15 dalies nuostatomis, vėjo elektrinių vystytojas privalo registruotu laišku, įteikiamu pasirašytinai, informuoti žemės sklypų, (išskyrus miškų ūkio paskirties žemės sklypus), ir tam tikros paskirties pastatų[1], jeigu tokių yra, patenkančių į teritorijas, esančias tarp teritorijos su statybos apribojimais ir šio straipsnio 9 dalyje nurodyto atstumo (t. y. vėjo elektrinės stiebo aukštis metrais, padaugintas iš 4), savininkus apie planuojamą statyti didesnės kaip 30 kW įrengtosios galios vėjo elektrinę, pateikdamas informaciją apie numatomą vykdyti veiklą, vėjo elektrinės įrengtąją galią, tikslią veiklos vykdymo teritoriją, nurodant žemės sklypų unikalius numerius, jos plotą, galimus apribojimus dėl naujų numatytos paskirties pastatų statybos ir (ar) patalpų įrengimo, teritorijų rekreacijai planavimo, taip pat teisę pateikti prieštaravimą raštu dėl vėjo elektrinės statybos per 20 darbo dienų nuo informacijos gavimo ir (arba) sudaryti šioje dalyje nurodytą susitarimą.

[1] sodo namų, gyvenamosios, viešbučių, kultūros, bendrojo ugdymo, profesinių, aukštųjų mokyklų, vaikų darželių, lopšelių, mokslo, skirtų švietimo reikmėms, kitų mokslo paskirties pastatų, skirtų neformaliajam švietimui, poilsio, gydymo, sporto ir religinės paskirties pastatų, specialiosios paskirties pastatų, susijusių su apgyvendinimu (kareivinių pastatų, laisvės atėmimo vietų įstaigų), nurodytos paskirties patalpų kitos paskirties statiniuose, rekreacinių teritorijų paskirties pastatų.

UŽDARA AKCINĖ BENDROVĖ „INFRAPLANAS“

Inovacijų g. 3, Biruliškių k., LT-54469 Kauno r., Į.k. 160421745, PVM k. LT604217417, el. p.: info@infraplanas.lt

2024-01-09 Nr. S-2024-05
Į 2023-12-19

DĖL VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO (PAV) ATASKAITOS

UAB „Infraplanas“ 2023 m. gruodžio 19 d. gavo Jūsų pasiūlymą (toliau – Pasiūlymas) parengtai Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (PAV) ataskaitai. UAB „Infraplanas“ kartu su planuojamos ūkinės veiklos (toliau – PŪV) organizatoriumi UAB „Ignitis renewables projektai“ išnagrinėjo Jūsų 2023 m. gruodžio 19 d. Pasiūlymą ir teikia sekančius paaiškinimus.

VE Nr. 12 perkėlimas arčiau 11 VE į kitą pusę miško Kėdainių miesto kryptimi.

Atsakydami į Jūsų pasiūlymą, informuojame, kad vadovaudamiesi LR Aplinkos ministerijos įsakymu „Dėl detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašo patvirtinimo“ (patvirtintas 2023 m. gruodžio 12 d. Nr. D1-406), 4.6 punkto nuostatomis, nuo planuojamos VE atstumas turi būti ne mažesnis nei 200 m atstumas, jį skaičiuojant iki rotoriaus mentės horizontalioje pozicijoje. Perkėlę 12 VE į Jūsų siūlomą vietą esamame sklype pagal turimą nuomos sutartį su sklypo savininku negalėsime išlaikyti atstumų nurodytų anksčiau minėtame įstatyme ir vėjo elektrinių sukeliamas poveikis gali būti reikšmingas paukščiams ir šikšnosparniams, taip pat būtų neišlaikomas atstumas tarp 12 VE ir 11 VE jėgainių jų darbui ir saugumui užtikrinti.

Ataskaitoje analizuota 12 VE vieta nuo Jūsų gyvenamojo pastato nutolusi ~948 m, triukšmo ribinės vertės nėra viršijamos, šešėliavimo ribinėms vertės nėra viršijamos. Manome, kad atstumas iki Jūsų gyvenamojo pastato yra pakankamas ir neturėtų reikšmingai įtakoti gyvenimo kokybės.

UŽDARA AKCINĖ BENDROVĖ „INFRAPLANAS“

Inovacijų g. 3, Biruliškių k., LT-54469 Kauno r., Į.k. 160421745, PVM k. LT604217417, el. p.: info@infraplanas.lt

2024-01-09 Nr. S-2024-06
Į 2023-12-19

DĖL VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO (PAV) ATASKAITOS

UAB „Infraplanas“ 2023 m. gruodžio 19 d. gavo Jūsų pasiūlymą (toliau – Pasiūlymas) parengtai Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo (PAV) ataskaitai. UAB „Infraplanas“ kartu su planuojamos ūkinės veiklos (toliau – PŪV) organizatoriumi UAB „Ignitis renewables projektai“ išnagrinėjo Jūsų 2023 m. gruodžio 19 d. Pasiūlymą ir teikia sekančius paaiškinimus.

Susirinkimo metu Mimalių kaimo gyventojai išreiškė pasipriešinimą vėjo jėgainės V22 statybai, nes vėjo jėgainė yra per arti gyvenamųjų namų. Siūlau vėjo jėgainės V22 perkelti tolyn nuo Mimalių kaimo apie +950 metrų į sklypą,
išnuomoti vėjo jėgainės statybai.

Atsakydami į Jūsų pasiūlymą, informuojame, kad vadovaudamiesi LR Aplinkos ministerijos įsakymu „Dėl detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašo patvirtinimo“ (patvirtintas 2023 m. gruodžio 12 d. Nr. D1-406), 4.6 punkto nuostatomis, nuo planuojamos VE atstumas turi būti ne mažesnis nei 200 m atstumas, jį skaičiuojant iki rotoriaus mentės horizontalioje pozicijoje. Perkėlę 22 VE į Jūsų siūlomą sklypą negalėsime išlaikyti atstumų nurodytų anksčiau minėtame įstatyme ir vėjo elektrinių sukeliamas poveikis gali būti reikšmingas paukščiams ir šikšnosparniams.

Ataskaitoje analizuota 22 VE vieta nuo gyvenamųjų pastatų nutolusi 963 – 1296 m, triukšmo ribinės vertės nėra viršijamos, o šešėliavimo ribinėms vertėms užtikrinti bus įdiegiama šešėliavimo mažinimo priemonė. Manome, kad atstumas iki gyvenamųjų pastatų yra pakankamas ir neturėtų reikšmingai įtakoti gyventojų gerovės.

4 Priedas. Kvalifikaciniai dokumentai

VALSTYBINĖ AKREDITAVIMO SVEIKATOS PRIEŽIŪROS VEIKLAI TARNYBA
PRIE SVEIKATOS APSAUGOS MINISTERIJOS

VISUOMENĖS SVEIKATOS PRIEŽIŪROS VEIKLOS
LICENCIJA

2010-12-06 Nr. **VSL-260**
Vilnius

Valstybinė akreditavimo sveikatos priežiūros veiklai tarnyba prie Sveikatos apsaugos ministerijos suteikia teisę

UAB „Infraplanas“, kodas 160421745

K. Donelaičio g. 55-2, Kauno m., Kauno m. sav.

verstis šios rūšies licencijuojama visuomenės sveikatos priežiūros veikla:

poveikio visuomenės sveikatai vertinimu

Direktorius A.V. Juozas Galdikas

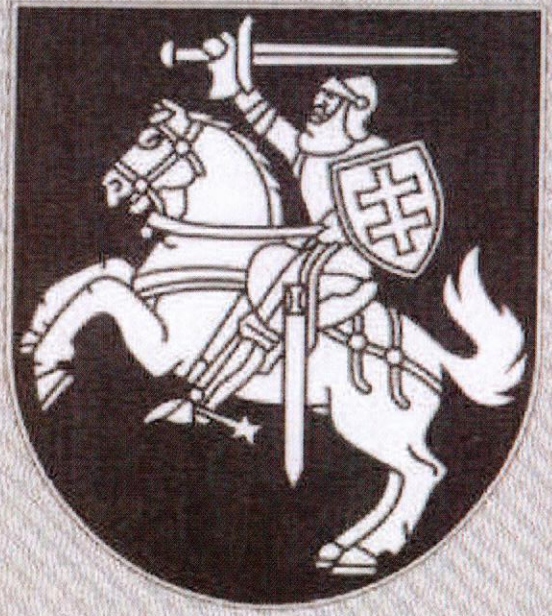
V 00102

LIETUVOS RESPUBLIKA

KAUNO TECHNOLOGIJOS UNIVERSITETAS

DIPLOMAS

A 013958



KAUNO TECHNOLOGIJOS

UNIVERSITETO

Cheminės technologijos fakultete baigė

Aplinkos inžinerijos studijų programą ir

įgijo kvalifikacinį

APLINKOS INŽINERIJOS

MOKSLO MAGISTRO

laipsnį

Kaunas, 1998 m. birželio 26 d.

Rektorius prof. habil. dr. K. Kriščiūnas

Dekanas doc. dr. R. Šiaučiūnas

Registracijos Nr. T-6410

KAUNO MEDICINOS UNIVERSITETAS

BAKALAURO DIPLOMAS

BA Nr. 0000699

(a.k.)

2009 metais baigė

visuomenės sveikatos studijų programą (61210B102),

ir jai suteiktas visuomenės sveikatos

bakalauro kvalifikacinis laipsnis.

Rektorius Remigijus Žaliūnas

A. V.

Išdavimo data 2009-06-19

Registracijos Nr. 17

Universiteto kodas 111951683

Diplomo kodas 6110

Spausdinimo data 2009-06-12

UAB INFRAPLANAS

Suinteresuotoms institucijoms

2015-04-20 Nr. S-2015-46

PAŽYMA

DĖL PAVARDĖS DOKUMENTUOSE

Patvirtinu, kad pakeista į pavardę.

Uždaroji akcinė bendrovė „Infraplanas"
K. Donelaičio g. 55-2, Kaunas LT-44245
Į.k. 160421745, PVM k. LT604217417
Tel.: (37) 407548, faks.: (37) 407549,
el. p.: info@infraplanas.lt

VALSTYBINĖ AKREDITAVIMO SVEIKATOS PRIEŽIŪROS VEIKLAI TARNYBA PRIE SVEIKATOS APSAUGOS MINISTERIJOS

VISUOMENĖS SVEIKATOS PRIEŽIŪROS VEIKLOS

LICENCIJA

2015 m. birželio 2 d. Nr. **VVL-0514**

Vilnius

Valstybinė akreditavimo sveikatos priežiūros veiklai tarnyba prie Sveikatos apsaugos ministerijos suteikia teisę (LTU), gyvenančiai verstis šios rūšies licencijuojama visuomenės sveikatos priežiūros veikla – **poveikio visuomenės sveikatai vertinimu.**

Direktorė Nora Ribokienė

V 00432

ALEKSANDRO STULGINSKIO
UNIVERSITETAS

(asmens kodas)

2017 metais baigė studijas pagal antrosios pakopos biologijos krypties ekologijos šakos Taikomosios ekologijos studijų programą (valstybinis kodas 621C18002) ir įgijo **ekologijos magistro** laipsnį.

Rektorius Antanas Maziliauskas

ALEKSANDRO STULGINSKIO UNIVERSITETAS
LIETUVOS RESPUBLIKA

Registracijos Nr. 317042

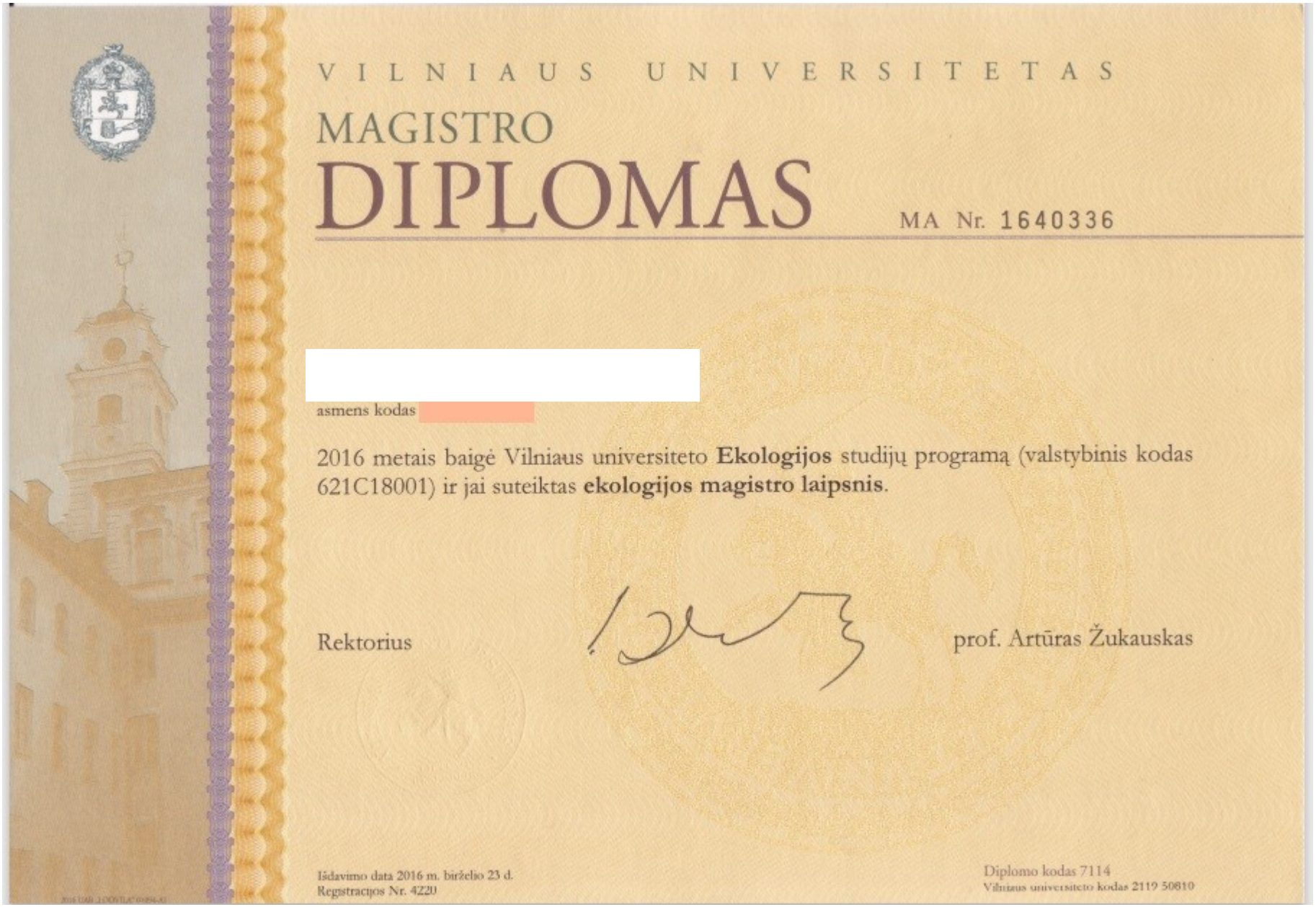
Išdavimo data 2017-06-23

MAGISTRO
DIPLOMAS

M Nr. 001511

Universiteto kodas 111950962
Diplomo kodas 7103

2017 UAB „LOIVILA" 01316-A1



VILNIAUS UNIVERSITETAS

MAGISTRO

DIPLOMAS

MA Nr. 1640336

[redacted]

asmens kodas [redacted]

2016 metais baigė Vilniaus universiteto **Ekologijos** studijų programą (valstybinis kodas 621C18001) ir jai suteiktas **ekologijos magistro laipsnis**.

Rektorius prof. Artūras Žukauskas

Išdavimo data 2016 m. birželio 23 d.
Registracijos Nr. 4Z20

Diplomo kodas 7114
Vilniaus universiteto kodas 2119 50810

5 PRIEDAS. KITI SVARBŪS DOKUMENTAI

5.1 Priedėlis. RC dokumentai

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2023-09-13 14:23:02

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **44/336764**
Registro tipas: **Žemės sklypas**
Sudarymo data: **2005-01-07**
Jonavos r. sav., Žeimių sen., Barsukinės k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Žeimių sen., Barsukinės k.
Unikalus daikto numeris: **4400-0496-2963**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4613/0004:123 Kuigalių k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo plotas: **17.6500 ha**
Žemės ūkio naudmenų plotas viso: **17.5100 ha**
iš jo: ariamos žemės plotas: **17.5100 ha**
Vandens telkinių plotas: **0.1400 ha**
Nusausintos žemės plotas: **17.5100 ha**
Žemės ūkio naudmenų našumo balas: **49.0**
Matavimų tipas: **Žemės sklypas suformuotas atliekant preliminarius matavimus**
Vidutinė rinkos vertė: **42900 Eur**
Vidutinės rinkos vertės nustatymo data: **2017-05-24**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **2004-12-08**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavybės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės: įrašų nėra

7. Juridiniai faktai:

7.1. **Sudaryta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

7.2.
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

8. Žymos:

8.1. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: paviršinių vandens telkinių pakrantės apsaugos juostos (VI skyrius, aštuntasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-0496-2963, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2023-01-01**

8.2. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: paviršinių vandens telkinių apsaugos zonos (VI skyrius, septintasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-0496-2963, aprašytas p. 2.1.**

Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2023-01-01**

8.3. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-0496-2963, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2023-01-01**

8.4. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: kelių apsaugos zonos (III skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-0496-2963, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2023-01-01**

9. Teritorijos, kuriose taikomos SŽNS, įrašytos į NTK kadastro duomenų byloje įrašytų duomenų pagrindu: įrašų nėra

10. Daikto registravimas ir kadastro žymos: įrašų nėra

11. Duomenys apie įregistruotas teritorijas, kuriose taikomos specialiosios žemės naudojimo sąlygos:

11.1. Teritorijos pavadinimas: **Elektros tinklų apsaugos zonos (III skyrius, ketvirtasis skirsnis)**
Teritorijos unikalus numeris: **100107242**
Įregistravimo pagrindas: **Lietuvos Respublikos energetikos ministerija; 2021-10-19 Įsakymas dėl Jonavos elektros tinklų teritorijų plano patvirtinimo Nr. 1-260**
Įregistravimo data: **2021-11-12**
Žemės sklypo plotas, patenkantis į Teritoriją: **8081 kv. m, nuo 2023-01-04**

11.2. Teritorijos pavadinimas: **Kelių apsaugos zonos (III skyrius, antrasis skirsnis)**
Teritorijos unikalus numeris: **100400021**
Įregistravimo pagrindas: **Lietuvos Respublikos susisiekimo ministerija; 2023-06-14 Valstybinės reikšmės kelių apsaugos zonų nustatymo planas Jonavos rajono savivaldybėje Nr. 3-303**
Įregistravimo data: **2023-06-21**
Žemės sklypo plotas, patenkantis į Teritoriją: **7340 kv. m, nuo 2023-06-21**

12. Registro pastabos ir nuorodos: įrašų nėra

13. Kita informacija: įrašų nėra

14. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2023-09-13 14:28:06

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **44/336754**
Registro tipas: **Žemės sklypas**
Sudarymo data: **2005-01-07**
Jonavos r. sav., Žeimių sen., Barsukinės k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Žeimių sen., Barsukinės k.
Unikalus daikto numeris: **4400-0496-2841**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4613/0005:92 Kuigalių k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo plotas: **21.0000 ha**
Žemės ūkio naudmenų plotas viso: **21.0000 ha**
iš jo: ariamos žemės plotas: **21.0000 ha**
Nusausintos žemės plotas: **21.0000 ha**
Žemės ūkio naudmenų našumo balas: **52.2**
Matavimų tipas: **Žemės sklypas suformuotas atliekant preliminarius matavimus**
Vidutinė rinkos vertė: **54000 Eur**
Vidutinės rinkos vertės nustatymo data: **2017-05-24**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **2004-12-08**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavybės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės: įrašų nėra

7. Juridiniai faktai:

7.1. **Sudaryta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

7.2.
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

8. Žymos:

8.1. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-0496-2841, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2023-01-01**

8.2. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: kelių apsaugos zonos (III skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-0496-2841, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711

Įrašas galioja: **Nuo 2023-01-01**

9. Teritorijos, kuriose taikomos SŽNS, įrašytos į NTK kadastro duomenų byloje įrašytų duomenų pagrindu: įrašų nėra

10. Daikto registravimas ir kadastro žymos: įrašų nėra

11. Duomenys apie įregistruotas teritorijas, kuriose taikomos specialiosios žemės naudojimo sąlygos:

11.1.
Teritorijos pavadinimas: **Kelių apsaugos zonos (III skyrius, antrasis skirsnis)**
Teritorijos unikalus numeris: **100399924**
Įregistravimo pagrindas: **Lietuvos Respublikos susisiekimo ministerija; 2023-06-14 Valstybinės reikšmės kelių apsaugos zonų nustatymo planas Jonavos rajono savivaldybėje Nr. 3-303**
Įregistravimo data: **2023-06-20**
Žemės sklypo plotas, patenkantis į Teritoriją: **3186 kv. m, nuo 2023-07-29**

12. Registro pastabos ir nuorodos: įrašų nėra

13. Kita informacija: įrašų nėra

14. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2023-09-18 10:35:41

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **46/4161**
Registro tipas: **Žemės sklypas**
Sudarymo data: **1994-03-11**
Jonavos r. sav., Kulvos sen., Jonkučių k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Kulvos sen., Jonkučių k.
Unikalus daikto numeris: **4615-0002-0007**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4615/0002:7 Kulvos k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo naudojimo būdas: **Kiti žemės ūkio paskirties žemės sklypai**
Žemės sklypo plotas: **3.5782 ha**
Žemės ūkio naudmenų plotas viso: **3.5782 ha**
iš jo: ariamos žemės plotas: **3.5782 ha**
Nusausintos žemės plotas: **3.5782 ha**
Žemės ūkio naudmenų našumo balas: **43.7**
Matavimų tipas: **Žemės sklypas suformuotas atliekant kadastrinius matavimus**
Vidutinė rinkos vertė: **14800 Eur**
Vidutinės rinkos vertės nustatymo data: **2021-09-06**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **2015-05-12**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavybės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės: įrašų nėra

7. Juridiniai faktai:

7.1. **Sudaryta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

7.2.
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

8. Žymos:

8.1. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4615-0002-0007, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **3.5782 ha**
Įrašas galioja: **Nuo 2023-01-01**

9. Teritorijos, kuriose taikomos SŽNS, įrašytos į NTK kadastro duomenų byloje įrašytų duomenų pagrindu: įrašų nėra

10. Daikto registravimas ir kadastro žymos:

10.1. **Kadastro duomenų tikslinimas (daikto registravimas)**
Daiktas: **žemės sklypas Nr. 4615-0002-0007, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2015-05-12 Nekilnojamojo daikto kadastro duomenų byla**
2015-07-07 Nacionalinės žemės tarnybos teritorinio skyriaus vedėjo sprendimas Nr. 5SK-792-(14.5.110.)
Įrašas galioja: **Nuo 2016-03-04**

10.2. **Kadastrinius matavimus atliko (kadastro žyma)**
UAB "TopoEra", a.k. 302570646
Daiktas: **žemės sklypas Nr. 4615-0002-0007, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2015-05-12 Nekilnojamojo daikto kadastro duomenų byla**
Kvalifikacijos pažymėjimas Nr. 2M-M-1046
Įrašas galioja: **Nuo 2016-03-04**

11. Duomenys apie įregistruotas teritorijas, kuriose taikomos specialiosios žemės naudojimo sąlygos: įrašų nėra

12. Registro pastabos ir nuorodos: įrašų nėra

13. Kita informacija: įrašų nėra

14. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2023-09-14 10:46:58

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **44/1542809**
Registro tipas: **Žemės sklypas**
Sudarymo data: **2012-09-10**
Jonavos r. sav., Žeimių sen., Blauzdžių k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Žeimių sen., Blauzdžių k.
Unikalus daikto numeris: **4400-2435-2338**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4640/0004:299 Žeimių k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo naudojimo būdas: **Kiti žemės ūkio paskirties žemės sklypai**
Žemės sklypo plotas: **47.7776 ha**
Žemės ūkio naudmenų plotas viso: **47.6982 ha**
iš jo: ariamos žemės plotas: **47.6982 ha**
Vandens telkinių plotas: **0.0794 ha**
Nusausintos žemės plotas: **47.7776 ha**
Žemės ūkio naudmenų našumo balas: **24.5**
Matavimų tipas: **Žemės sklypas suformuotas atliekant kadastrinius matavimus**
Vidutinė rinkos vertė: **131000 Eur**
Vidutinės rinkos vertės nustatymo data: **2021-04-22**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **2021-04-19**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavybės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės: įrašų nėra

7. Juridiniai faktai:

7.1. **Sudaryta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

8. Žymos:

8.1. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: gamybinių objektų sanitarinės apsaugos zonos (IV skyrius, pirmasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-2435-2338, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2021-04-12 Nacionalinės žemės tarnybos teritorinio skyriaus vedėjo sprendimas Nr. 5SK-189-(14.5.110 E.)**
2021-04-21 Nacionalinės žemės tarnybos teritorinio skyriaus vedėjo įsakymas Nr. 5VĮ-100-(14.5.2 E.)
Plotas: **59109.00 kv. m**
Įrašas galioja: **Nuo 2023-01-01**

8.2. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: paviršinių vandens telkinių pakrantės apsaugos juostos (VI skyrius, aštuntasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-2435-2338, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **0.4201 ha**
Įrašas galioja: **Nuo 2023-01-01**

8.3. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: paviršinių**

vandens telkinių apsaugos zonos (VI skyrius, septintasis skirsnis)
Daiktas: **žemės sklypas Nr. 4400-2435-2338, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **0.4201 ha**
Įrašas galioja: **Nuo 2023-01-01**

8.4. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-2435-2338, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **47.7776 ha**
Įrašas galioja: **Nuo 2023-01-01**

8.5. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: kelių apsaugos zonos (III skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-2435-2338, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **0.2735 ha**
Įrašas galioja: **Nuo 2023-01-01**

9. Teritorijos, kuriose taikomos SŽNS, įrašytos į NTK kadastro duomenų byloje įrašytų duomenų pagrindu: įrašų nėra

10. Daikto registravimas ir kadastro žymos:

10.1. **Kadastrinius matavimus atliko (kadastro žyma)**
Daiktas: **žemės sklypas Nr. 4400-2435-2338, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2009-07-03 Kvalifikacijos pažymėjimas Nr. 2M-M-1021**
2021-04-19 Nekilnojamojo daikto kadastro duomenų byla
Įrašas galioja: **Nuo 2021-04-22**

10.2. **Kadastro duomenų tikslinimas (daikto registravimas)**
Daiktas: **žemės sklypas Nr. 4400-2435-2338, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2021-04-12 Nacionalinės žemės tarnybos teritorinio skyriaus vedėjo sprendimas Nr. 5SK-189-(14.5.110 E.)**
2021-04-21 Nacionalinės žemės tarnybos teritorinio skyriaus vedėjo įsakymas Nr. 5VĮ-100-(14.5.2 E.)
Įrašas galioja: **Nuo 2021-04-22**

10.3. **Kadastrinius matavimus atliko (kadastro žyma)**
UAB "TopoEra", a.k. 302570646
Daiktas: **žemės sklypas Nr. 4400-2435-2338, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2012-03-27 Nekilnojamojo daikto kadastro duomenų byla**
Kvalifikacijos pažymėjimas Nr. 2M-M-1616
Įrašas galioja: **Nuo 2012-09-10**

10.4. **Suformuotas naujas (daikto registravimas)**
Daiktas: **žemės sklypas Nr. 4400-2435-2338, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2012-08-31 Nacionalinės žemės tarnybos teritorinio skyriaus vedėjo sprendimas Nr. 5VĮ-(14.5.2.)-1151**
Įrašas galioja: **Nuo 2012-09-10**

11. Duomenys apie įregistruotas teritorijas, kuriose taikomos specialiosios žemės naudojimo sąlygos:

11.1. Teritorijos pavadinimas: **Gamybinių objektų sanitarinės apsaugos zonos (IV skyrius, pirmasis skirsnis)**
Teritorijos unikalus numeris: **100001162**
Įregistravimo pagrindas: **Nacionalinis visuomenės sveikatos centras prie Sveikatos apsaugos ministerijos; 2020-06-18 Sprendimas del planuojamos ukines veiklos galimybiu Nr. (2-11 14.3.4E)BSV-12443**
Įregistravimo data: **2020-08-14**
Žemės sklypo plotas, patenkantis į Teritoriją: **58375 kv. m, nuo 2023-01-05**

12. Registro pastabos ir nuorodos: įrašų nėra

13. Kita informacija: įrašų nėra

14. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2023-09-13 15:42:34

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **46/17073**
Registro tipas: **Žemės sklypas**
Sudarymo data: **2002-01-29**
Jonavos r. sav., Žeimių sen., Blauzdžių k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Žeimių sen., Blauzdžių k.
Unikalus daikto numeris: **4640-0004-0166**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4640/0004:166 Žeimių k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo naudojimo būdas: **Kiti žemės ūkio paskirties žemės sklypai**
Žemės sklypo plotas: **3.0006 ha**
Žemės ūkio naudmenų plotas viso: **3.0006 ha**
iš jo: ariamos žemės plotas: **3.0006 ha**
Nusausintos žemės plotas: **3.0006 ha**
Žemės ūkio naudmenų našumo balas: **33.8**
Matavimų tipas: **Žemės sklypas suformuotas atliekant kadastrinius matavimus**
Vidutinė rinkos vertė: **3330 Eur**
Vidutinės rinkos vertės nustatymo data: **2015-01-27**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **2014-11-03**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavybės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės: įrašų nėra

7. Juridiniai faktai:

7.1. **Sudaryta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

7.2.
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

8. Žymos:

8.1. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: paviršinių vandens telkinių apsaugos zonos (VI skyrius, septintasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0004-0166, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **1.9419 ha**
Įrašas galioja: **Nuo 2023-01-01**

8.2. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0004-0166, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **3.0006 ha**

Įrašas galioja: **Nuo 2023-01-01**

8.3. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: kelių apsaugos zonos (III skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0004-0166, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **0.0455 ha**
Įrašas galioja: **Nuo 2023-01-01**

9. Teritorijos, kuriose taikomos SŽNS, įrašytos į NTK kadastro duomenų byloje įrašytų duomenų pagrindu: įrašų nėra

10. Daikto registravimas ir kadastro žymos:

10.1. **Kadastrinius matavimus atliko (kadastro žyma)**
UAB "TopoEra", a.k. 302570646
Daiktas: **žemės sklypas Nr. 4640-0004-0166, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2014-11-03 Nekilnojamojo daikto kadastro duomenų byla**
Kvalifikacijos pažymėjimas Nr. 2M-M-1046
Įrašas galioja: **Nuo 2015-01-27**

10.2. **Kadastro duomenų tikslinimas (daikto registravimas)**
Daiktas: **žemės sklypas Nr. 4640-0004-0166, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2014-11-03 Nekilnojamojo daikto kadastro duomenų byla**
2015-01-06 Nacionalinės žemės tarnybos teritorinio skyriaus vedėjo sprendimas Nr. 5SK-(14.5.110.)-12
Įrašas galioja: **Nuo 2015-01-27**

11. Duomenys apie įregistruotas teritorijas, kuriose taikomos specialiosios žemės naudojimo sąlygos: įrašų nėra

12. Registro pastabos ir nuorodos: įrašų nėra

13. Kita informacija: įrašų nėra

14. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2022-09-12 16:02:50

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **46/8443**
Registro tipas: **Žemės sklypas**
Sudarymo data: **1996-07-12**
Jonavos r. sav., Žeimių sen., Blauzdžių k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Žeimių sen., Blauzdžių k.
Unikalus daikto numeris: **4640-0004-0042**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4640/0004:42 Žeimių k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo plotas: **4.3100 ha**
Žemės ūkio naudmenų plotas viso: **4.3100 ha**
iš jo: ariamos žemės plotas: **4.3100 ha**
Nusausintos žemės plotas: **4.3100 ha**
Žemės ūkio naudmenų našumo balas: **41.1**
Matavimų tipas: **Žemės sklypas suformuotas atliekant preliminarius matavimus**
Vidutinė rinkos vertė: **9810 Eur**
Vidutinės rinkos vertės nustatymo data: **2017-05-24**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **1996-07-12**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavybės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės : įrašų nėra

7. Juridiniai faktai:

7.1. **Sudaryta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Aprašymas:
Įrašas galioja:
Terminas:

7.2.
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

8. Žymos: įrašų nėra

9. Teritorijos, kuriose taikomos specialiosios žemės naudojimo sąlygos:

9.1. **Paviršinių vandens telkinių pakrantės apsaugos juostos (VI skyrius, aštuntasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0004-0042, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2020-01-02**

9.2. **Paviršinių vandens telkinių apsaugos zonos (VI skyrius, septintasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0004-0042, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2020-01-02**

9.3. **Melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0004-0042, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2020-01-02**

10. Daikto registravimas ir kadastro žymos: įrašų nėra

11. Registro pastabos ir nuorodos: įrašų nėra

12. Kita informacija: įrašų nėra

13. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2023-09-14 10:51:15

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **46/13253**
Registro tipas: **Žemės sklypas**
Sudarymo data: **1999-06-25**
Jonavos r. sav., Žeimių sen., Svalkenių k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Žeimių sen., Svalkenių k.
Unikalus daikto numeris: **4640-0001-0071**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4640/0001:71 Žeimių k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo plotas: **2.7200 ha**
Žemės ūkio naudmenų plotas viso: **2.6700 ha**
iš jo: ariamos žemės plotas: **2.6700 ha**
Vandens telkinių plotas: **0.0500 ha**
Nusausintos žemės plotas: **2.6700 ha**
Žemės ūkio naudmenų našumo balas: **33.4**
Matavimų tipas: **Žemės sklypas suformuotas atliekant preliminarius matavimus**
Vidutinė rinkos vertė: **5540 Eur**
Vidutinės rinkos vertės nustatymo data: **2017-07-07**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **1999-06-25**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavybės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės: įrašų nėra

7. Juridiniai faktai:

7.1. **Sudaryta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Aprašymas:
Įrašas galioja:
Terminas:

7.2.
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

8. Žymos:

8.1. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: paviršinių vandens telkinių pakrantės apsaugos juostos (VI skyrius, aštuntasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0071, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2023-01-01**

8.2. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: paviršinių vandens telkinių apsaugos zonos (VI skyrius, septintasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0071, aprašytas p. 2.1.**

Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2023-01-01**

8.3. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0071, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2023-01-01**

8.4. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: kelių apsaugos zonos (III skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0071, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2023-01-01**

9. Teritorijos, kuriose taikomos SŽNS, įrašytos į NTK kadastro duomenų byloje įrašytų duomenų pagrindu: įrašų nėra

10. Daikto registravimas ir kadastro žymos: įrašų nėra

11. Duomenys apie įregistruotas teritorijas, kuriose taikomos specialiosios žemės naudojimo sąlygos: įrašų nėra

12. Registro pastabos ir nuorodos: įrašų nėra

13. Kita informacija: įrašų nėra

14. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2022-09-12 16:01:58

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **46/4236**
Registro tipas: **Žemės sklypas**
Sudarymo data: **1994-03-11**
Jonavos r. sav., Žeimių sen., Svalkenių k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Žeimių sen., Svalkenių k.
Unikalus daikto numeris: **4640-0001-0008**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4640/0001:8 Žeimių k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo plotas: **8.0300 ha**
Žemės ūkio naudmenų plotas viso: **7.7900 ha**
iš jo: ariamos žemės plotas: **7.7300 ha**
iš jo: pievų ir natūralių ganyklų plotas: **0.0600 ha**
Vandens telkinių plotas: **0.2400 ha**
Nusausintos žemės plotas: **8.0300 ha**
Žemės ūkio naudmenų našumo balas: **31.1**
Matavimų tipas: **Žemės sklypas suformuotas atliekant preliminarius matavimus**
Vidutinė rinkos vertė: **5995 Eur**
Vidutinės rinkos vertės nustatymo data: **2013-07-01**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **1995-10-04**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavybės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės : įrašų nėra

7. Juridiniai faktai:

7.1. **Sudaryta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Aprašymas:
Įrašas galioja:
Terminas:

7.2.
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

8. Žymos: įrašų nėra

9. Teritorijos, kuriose taikomos specialiosios žemės naudojimo sąlygos:

9.1. **Paviršinių vandens telkinių pakrantės apsaugos juostos (VI skyrius, aštuntasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0008, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2020-01-02**

9.2. **Paviršinių vandens telkinių apsaugos zonos (VI skyrius, septintasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0008, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2020-01-02**

9.3. **Melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0008, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2020-01-02**

10. Daikto registravimas ir kadastro žymos: įrašų nėra

11. Registro pastabos ir nuorodos: įrašų nėra

12. Kita informacija: įrašų nėra

13. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2022-09-15 10:19:23

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **46/11934**
Registro tipas: **Žemės sklypas**
Sudarymo data: **1998-06-18**
Jonavos r. sav., Žeimių sen., Svalkenių k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Žeimių sen., Svalkenių k.
Unikalus daikto numeris: **4640-0001-0063**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4640/0001:63 Žeimių k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo plotas: **30.0000 ha**
Žemės ūkio naudmenų plotas viso: **29.6400 ha**
iš jo: ariamos žemės plotas: **29.6400 ha**
Vandens telkinių plotas: **0.3600 ha**
Nusausintos žemės plotas: **29.6400 ha**
Žemės ūkio naudmenų našumo balas: **34.8**
Matavimų tipas: **Žemės sklypas suformuotas atliekant preliminarius matavimus**
Vidutinė rinkos vertė: **21084 Eur**
Vidutinės rinkos vertės nustatymo data: **2012-12-10**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **1998-06-11**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavybės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

4.2.
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

4.3.
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės : įrašų nėra

7. Juridiniai faktai:

7.1. **Sudarvta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

7.2.
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

7.3.
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

7.4.
Daiktas:

Įregistravimo pagrindas:
Įrašas galioja:

8. Žymos: įrašų nėra

9. Teritorijos, kuriose taikomos specialiosios žemės naudojimo sąlygos:

9.1. **Paviršinių vandens telkinių pakrantės apsaugos juostos (VI skyrius, aštuntasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0063, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2020-01-02**

9.2. **Paviršinių vandens telkinių apsaugos zonos (VI skyrius, septintasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0063, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2020-01-02**

9.3. **Melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0063, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2020-01-02**

9.4. **Kelių apsaugos zonos (III skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4640-0001-0063, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Įrašas galioja: **Nuo 2020-01-02**

10. Daikto registravimas ir kadastro žymos: įrašų nėra

11. Registro pastabos ir nuorodos: įrašų nėra

12. Kita informacija: įrašų nėra

13. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2022-09-12 16:00:51

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **44/175853**
Registro tipas: **Žemės sklypas**
Sudarymo data: **2004-03-29**
Jonavos r. sav., Žeimių sen., Aklių k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Žeimių sen., Aklių k.
Unikalus daikto numeris: **4400-0257-5726**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4640/0002:244 Žeimių k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo plotas: **10.1800 ha**
Žemės ūkio naudmenų plotas viso: **10.1800 ha**
iš jo: ariamos žemės plotas: **10.1800 ha**
Nusausintos žemės plotas: **10.1800 ha**
Žemės ūkio naudmenų našumo balas: **41.6**
Matavimų tipas: **Žemės sklypas suformuotas atliekant preliminarius matavimus**
Vidutinė rinkos vertė: **22200 Eur**
Vidutinės rinkos vertės nustatymo data: **2017-05-24**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **2004-01-14**
Teritorija, kurioje taikomos specialiosios žemės naudojimo sąlygos: **Elektros tinklų apsaugos zonos (III skyrius, ketvirtasis skirsnis)**
Teritorijos unikalus numeris: **100102142**
Teritorijos nustatymo data: **2021-10-19**
Žymos apie teritoriją padarymo data: **2021-11-09**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavvbės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės : įrašų nėra

7. Juridiniai faktai:

7.1. **Sudaryta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

7.2.
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

8. Žymos: įrašų nėra

9. Teritorijos, kuriose taikomos specialiosios žemės naudojimo sąlygos:

9.1. **Melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-0257-5726, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **10.18 ha**
Įrašas galioja: **Nuo 2020-01-02**

9.2. **Elektros tinklų apsaugos zonos (III skyrius, ketvirtasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-0257-5726, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **0.32 ha**
Įrašas galioja: **Nuo 2020-01-02**

9.3. **Kelių apsaugos zonos (III skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4400-0257-5726, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711

Plotas: **0.47 ha**
Įrašas galioja: **Nuo 2020-01-02**

10. Daikto registravimas ir kadastro žymos: įrašų nėra

11. Registro pastabos ir nuorodos: įrašų nėra

12. Kita informacija: įrašų nėra

13. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 2688 262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

NEKILNOJAMOJO TURTO REGISTRO DUOMENŲ BAZĖS IŠRAŠAS

2023-10-19 11:41:24

1. Nekilnojamojo turto registre įregistruotas turtas:

Registro Nr.: **46/7062**
Registro tipas: **Žemės sklypas**
Sudarymo data: **1995-05-30**
Jonavos r. sav., Žeimių sen., Normainėlių k.

2. Nekilnojamieji daiktai:

2.1. **Žemės sklypas**
Jonavos r. sav., Žeimių sen., Normainėlių k.
Unikalus daikto numeris: **4623-0002-0006**
Žemės sklypo kadastro numeris ir kadastro vietovės pavadinimas: **4623/0002:6 Pauliukų k.v.**
Daikto pagrindinė naudojimo paskirtis: **Žemės ūkio**
Žemės sklypo naudojimo būdas: **Kiti žemės ūkio paskirties žemės sklypai**
Žemės sklypo plotas: **4.1003 ha**
Žemės ūkio naudmenų plotas viso: **4.1003 ha**
iš jo: ariamos žemės plotas: **4.1003 ha**
Nusausintos žemės plotas: **4.1003 ha**
Žemės ūkio naudmenų našumo balas: **56.5**
Matavimų tipas: **Žemės sklypas suformuotas atliekant kadastrinius matavimus**
Vidutinė rinkos vertė: **4026 Eur**
Vidutinės rinkos vertės nustatymo data: **2013-02-02**
Vidutinės rinkos vertės nustatymo būdas: **Masinis vertinimas**
Kadastro duomenų nustatymo data: **2022-12-01**

3. Daikto priklausiniai iš kito registro: įrašų nėra

4. Nuosavybė:

4.1. **Nuosavybės teisė**
Savininkas:
Daiktas:
Įregistravimo pagrindas:
Įrašas galioja:

5. Valstybės ir savivaldybių žemės patikėjimo teisė: įrašų nėra

6. Kitos daiktinės teisės: įrašų nėra

7. Juridiniai faktai:

7.1. **Sudaryta nuomos sutartis**
Nuomininkas:
Daiktas:
Įregistravimo pagrindas:
Plotas:
Įrašas galioja:
Terminas:

8. Žymos:

8.1. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: pastatų, kuriuose laikomi ūkiniai gyvūnai, su esančiais prie jų mėšlo ir srutų kaupimo įrenginiais arba be jų, sanitarinės apsaugos zonos (IV skyrius, pirmasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4623-0002-0006, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2022-12-16 Nacionalinės žemės tarnybos teritorinio skyriaus vedėjo sprendimas Nr. 5SK-2224-(14.5.110 E.)**
Plotas: **41003.00 kv. m**
Įrašas galioja: **Nuo 2023-01-01**

8.2. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: melioruotos žemės ir melioracijos statinių apsaugos zonos (VI skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4623-0002-0006, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **4.1003 ha**
Įrašas galioja: **Nuo 2023-01-01**

8.3. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: elektros tinklų apsaugos zonos (III skyrius, ketvirtasis skirsnis)**

Daiktas: **žemės sklypas Nr. 4623-0002-0006, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **0.0102 ha**
Įrašas galioja: **Nuo 2023-01-01**

8.4. **Teritorija, kurioje taikomos SŽNS, neįregistruota Nekilnojamojo turto registre: kelių apsaugos zonos (III skyrius, antrasis skirsnis)**
Daiktas: **žemės sklypas Nr. 4623-0002-0006, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2019-06-06 Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų įstatymas Nr. XIII-2166**
2019-12-19 Lietuvos Respublikos žemės ūkio ministro įsakymas Nr. 3D-711
Plotas: **0.0885 ha**
Įrašas galioja: **Nuo 2023-01-01**

9. Teritorijos, kuriose taikomos SŽNS, įrašytos į NTK kadastro duomenų byloje įrašytų duomenų pagrindu: įrašų nėra

10. Daikto registravimas ir kadastro žymos:

10.1. **Kadastro duomenų tikslinimas (daikto registravimas)**
Daiktas: **žemės sklypas Nr. 4623-0002-0006, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2022-12-01 Nekilnojamojo daikto kadastro duomenų byla**
2022-12-16 Nacionalinės žemės tarnybos teritorinio skyriaus vedėjo sprendimas Nr. 5SK-2224-(14.5.110 E.)
Įrašas galioja: **Nuo 2022-12-28**

10.2. **Kadastrinius matavimus atliko (kadastro žyma)**
Daiktas: **žemės sklypas Nr. 4623-0002-0006, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2009-07-03 Kvalifikacijos pažymėjimas Nr. 2M-M-1019**
2022-12-01 Nekilnojamojo daikto kadastro duomenų byla
Įrašas galioja: **Nuo 2022-12-28**

10.3. **Kadastro duomenų tikslinimas (daikto registravimas)**
Daiktas: **žemės sklypas Nr. 4623-0002-0006, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2013-03-05 Nacionalinės žemės tarnybos teritorinio skyriaus vedėjo sprendimas Nr. 5V]-(14.5.2.)-314**
Įrašas galioja: **Nuo 2013-03-15**

10.4. **Kadastrinius matavimus atliko (kadastro žyma)**
J. Kopštals įmonė, a.k. 156909710
Daiktas: **žemės sklypas Nr. 4623-0002-0006, aprašytas p. 2.1.**
Įregistravimo pagrindas: **2013-01-28 Nekilnojamojo daikto kadastro duomenų byla**
Kvalifikacijos pažymėjimas Nr. 2M-M-288
Įrašas galioja: **Nuo 2013-03-15**

11. Duomenys apie įregistruotas teritorijas, kuriose taikomos specialiosios žemės naudojimo sąlygos:

11.1. Teritorijos pavadinimas: **Elektros tinklų apsaugos zonos (III skyrius, ketvirtasis skirsnis)**
Teritorijos unikalus numeris: **100076420**
Įregistravimo pagrindas: **Lietuvos Respublikos energetikos ministerija; 2021-10-19 Įsakymas dėl Jonavos elektros tinklų teritorijų plano patvirtinimo Nr. 1-260**
Įregistravimo data: **2021-10-29**
Žemės sklypo plotas, patenkantis į Teritoriją: **3 kv. m, nuo 2023-01-04**

11.2. Teritorijos pavadinimas: **Elektros tinklų apsaugos zonos (III skyrius, ketvirtasis skirsnis)**
Teritorijos unikalus numeris: **100102142**
Įregistravimo pagrindas: **Lietuvos Respublikos energetikos ministerija; 2021-10-19 Įsakymas dėl Jonavos elektros tinklų teritorijų plano patvirtinimo Nr. 1-260**
Įregistravimo data: **2021-11-09**
Žemės sklypo plotas, patenkantis į Teritoriją: **97 kv. m, nuo 2023-01-04**

11.3. Teritorijos pavadinimas: **Elektros tinklų apsaugos zonos (III skyrius, ketvirtasis skirsnis)**
Teritorijos unikalus numeris: **100074512**
Įregistravimo pagrindas: **Lietuvos Respublikos energetikos ministerija; 2021-10-19 Įsakymas dėl Jonavos elektros tinklų teritorijų plano patvirtinimo Nr. 1-260**
Įregistravimo data: **2021-10-28**
Žemės sklypo plotas, patenkantis į Teritoriją: **417 kv. m, nuo 2023-01-05**

12. Registro pastabos ir nuorodos: įrašų nėra

13. Kita informacija: įrašų nėra

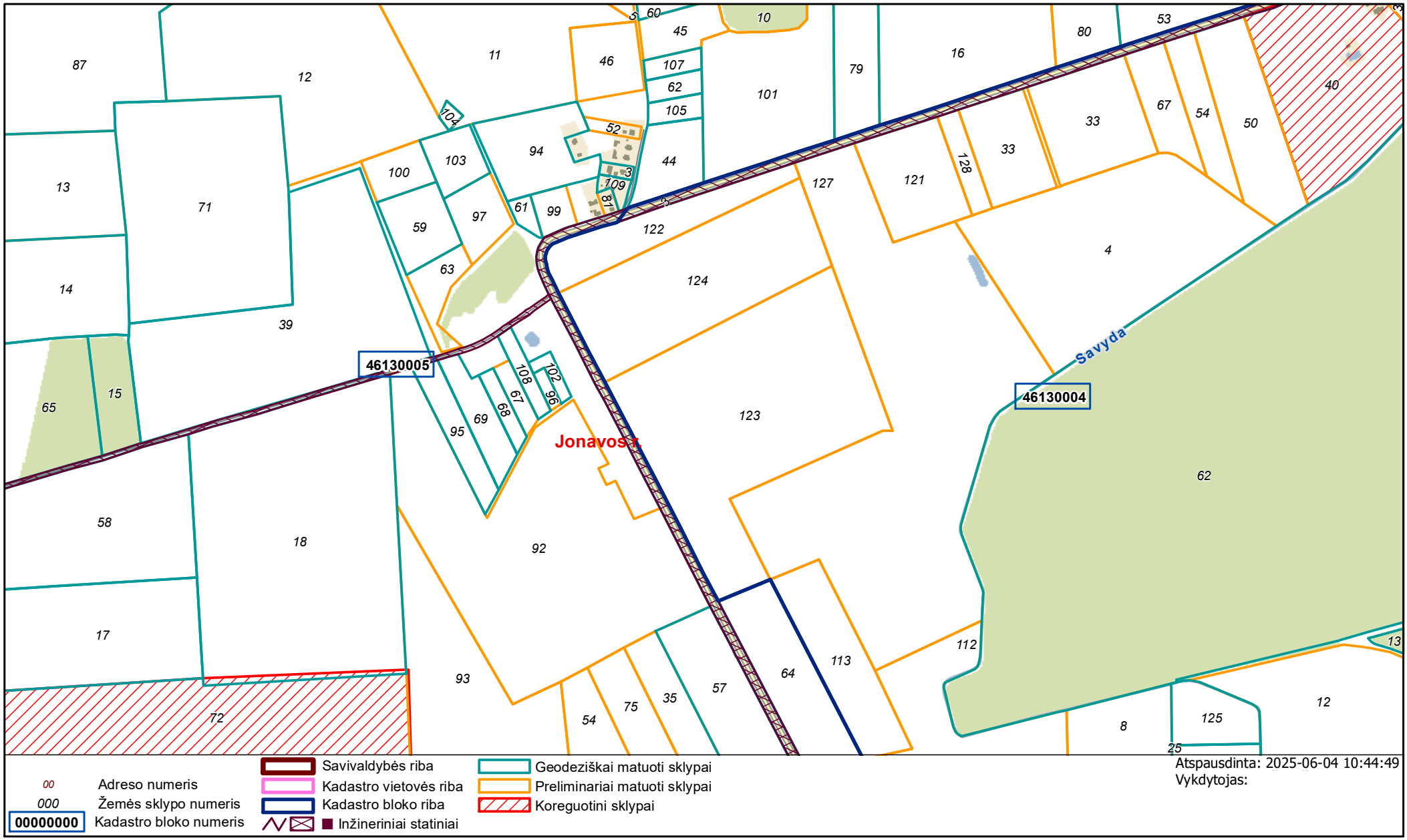
14. Informacija apie duomenų sandoriui tikslinimą: įrašų nėra

Dokumentą atspausdino

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Studentų g. 39, 08106 Vilnius tel. +370 5 268 8262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

KADASTRO ŽEMĖLAPIO IŠTRAUKA

Mastelis 1:10000



00 Adreso numeris
000 Žemės sklypo numeris
00000000 Kadastro bloko numeris

Savivaldybės riba
Kadastro vietovės riba
Kadastro bloko riba
Inžineriniai statiniai

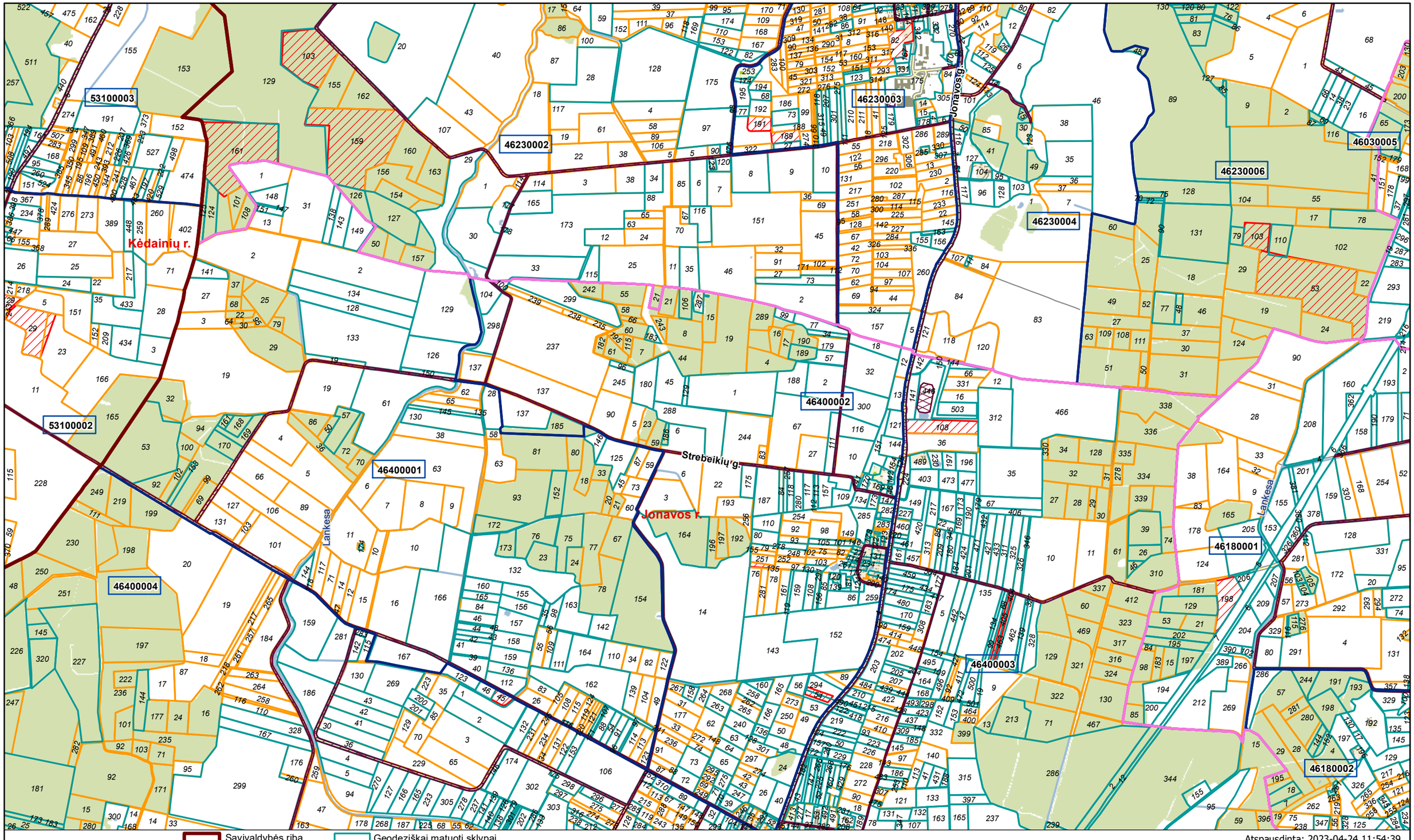
Geodeziškai matuoti sklypai
Preliminariai matuoti sklypai
Koreguotini sklypai

Atspausdinta: 2025-06-04 10:44:49
Vykdytojas:

VALSTYBĖS ĮMONĖ REGISTRŲ CENTRAS
Lvivo g. 25-101, 09320 Vilnius, tel. (8 5) 268 8262, el. p. info@registrucentras.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 124110246

KADASTRO ŽEMĖLAPIO IŠTRAUKA

Mastelis 1:25000



00 Adreso numeris
000 Žemės sklypo numeris
00000000 Kadastro bloko numeris

Savivaldybės riba
Kadastro vietovės riba
Kadastro bloko riba
Inžineriniai statiniai

Geodeziškai matuoti sklypai
Preliminariai matuoti sklypai
Koreguotini sklypai

Atspausdinta: 2023-04-24 11:54:39
Vykdytojas:

5.2 Priedėlis. SRIS išrašas

Valstybinė saugomų teritorijų tarnyba
prie Aplinkos Ministerijos
Antakalnio g.25, Vilnius, LT-10312

El. paštas: vstt@vstt.lt
Tel.: +370 5 272 3284

IŠRAŠAS

Iš Saugomų rūšių informacinės sistemos

Nr. 3462
2025-06-19 13:41

Prašymo numeris	3462
Prašymo data	2025-06-19
Išrašo gavimo tikslas	Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaita
Prašyta teritorija	Laisvai pažymėta teritorija
Išraše pateikiama situacija iki	2025-06-19
Išrašą suformavo	Saugomų rūšių informacinė sistema

DĖMESIO!

Išraše esančius duomenis, kuriuose yra tikslios saugomų gyvūnų, augalų ir grybų rūšių radaviečių ar augaviečių koordinatės, galima naudoti tik nurodytais tikslais, neatskleisti jų kitiems asmenims, jei tai galėtų sukelti grėsmę saugomų rūšių išlikimui.

Naudotojų patogumui SRIS duomenys yra suskirstyti į dvi kategorijas: „Radavietė“ ir „Radavietė (pavieniai stebėjimai)“.

„Radavietėmis“ vadinamos vietos, kuriose aptiktos sėslios saugomos rūšys (pvz., augalai, grybai), kiaušinio ar lervos stadijoje esantys gyvūnai ir jų jaunikliai lizduose ar olose, taip pat suaugę gyvūnai veisimosi vietoje arba jų veiklos požymiai - lizdai, uoksai, olos ir pan.

Į **„Radavietė (pavieniai stebėjimai)“** išskiriami tie duomenys, kurie yra apie judrias saugomas gyvūnų rūšis ir jų veiklos požymius, nebūtinai indikuojančius prieraišumą tam tikram taškui ar plotui.

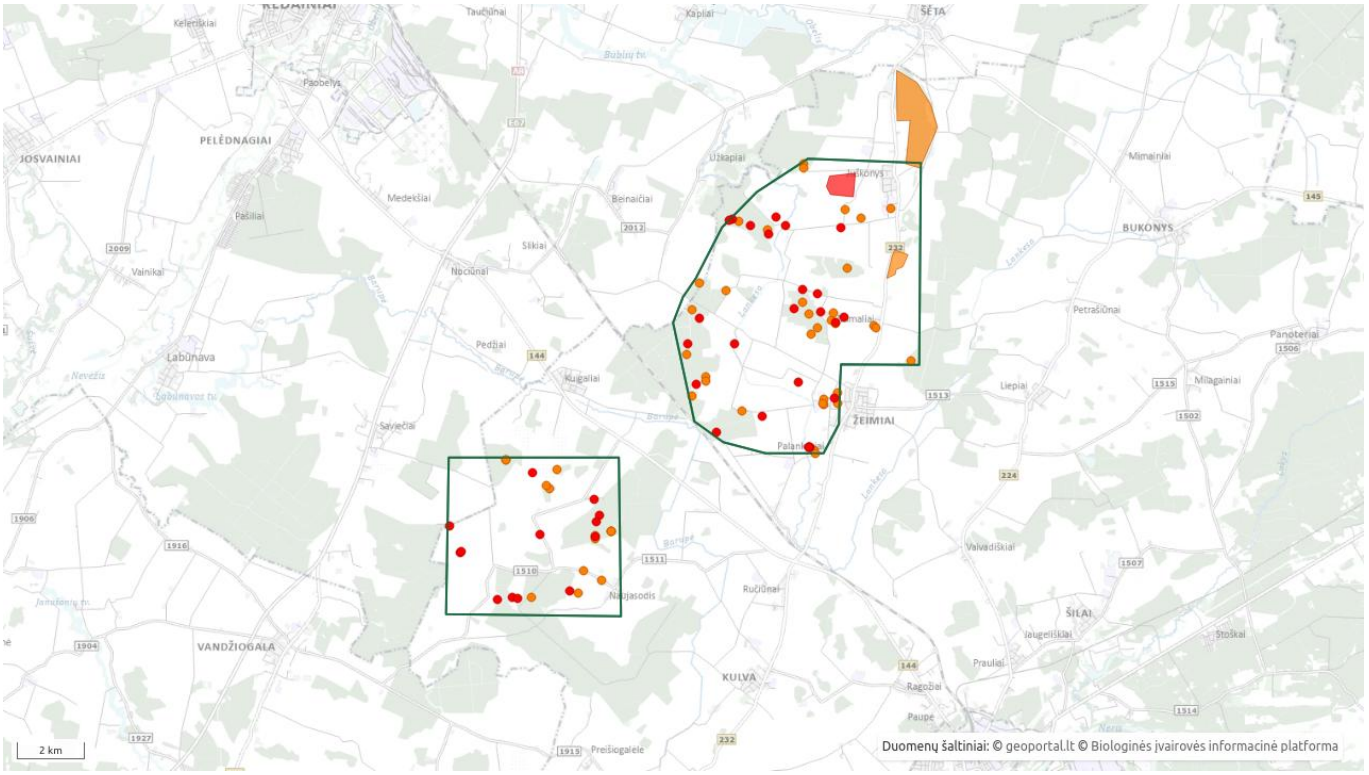
Teisinis visų SRIS esančių saugomų rūšių duomenų statusas yra vienodas, nepriklausomai nuo to, kuriai duomenų kategorijai - „Radavietė“ ar „Radavietė (pavieniai stebėjimai)“ - jie yra priskirti.

Išrašo santrauka

Prašyta teritorija: Laisvai pažymėta teritorija
Prašytos rūšys: Lizdiškasis dumblabragis, Šiurpinis žvakidumblis, Baltijinis maurabragis, Pilkšvasis maurabragis, Kurklinis menturdumblis, Žaliasis sėmainis, Žvilgančioji riestūnė, Velėninė versmenė, Keturspyglė šoniplauka, Brijinė kapšutė, Ilgakotė mezija, Smailioji kuplė, Tankusis kiminas, Siauralapis šiurpis, Smulkioji tujinėlė, Lieknoji teilorija, Vingialapė pažulnė, Ilgakaklė driušė, Funko brija, Ilgalapė sukutė, Patisinė nertvė, Žvilgusis kiminas, Vulfo kiminas, Plačialapis kiminas, Minkštasis kiminas, Vaiskioji uolenė, Smailiašakis tensmenis, Plunksninė švitrelė, Tikroji didšepšė, Karoklinė skliautenė, Arnoldo skeltadantė, Mažoji nertvė, Tribriaunė mezija, Šikšninė kerėža, Juodadantė kulkšnė, Žalioji dvyndantė, Raukšlėtoji dvyndantė, Pataisinė dygva, Vingiastiebė dygva, Ričardsono dygė, Šleicherio brija, Kirptalapė tritomarija, Šiaurinė merkija, Tįsioji frulanija, Ežerinė slepišerė, Menturinė skylenė, Barzdotoji barzdenė, Lieknoji statplaukė, Pūkuotoji apuokė, Tridantė bazanija, Plačialapė plikūnė, Durpyninė žvynutė, Pelkinė džiugma, Didysis asiūklis, Patvankinis pataisiukas, Daugiaskiltis varpenis, Virgininis varpenis, Mažasis varpenis, Šakotasis varpenis, Miškinis spyglainis, Šerinė kalnarūtė, Vėjalandė šilagėlė, Plačialapis begalis, Gauruotoji žilstė, Laiboji vyrskydė, Liūninė našlaitė, Lietuvinė naktižiedė, Balandinė žvaigždūnė, Lininė žarotūnė, Žirnialapis vikis, Pavasarinis vikis, Pievinis šalavijas, Pajūrinis sotvaras, Tarpinis rūtenis, Paprastasis rėžiukas, Gorskio pūtelis, Siauralapė plautė, Žirnialapis pelėžirnis, Smailialapė plūdė, Geltonžiedis pelėžirnis, Daugiametis patvenis, Stačioji notra, Totorinė maludė, Mažažiedė lūgnė, Plačialapis lipikas, Šiurkščioji vanagutė, Vaistinis kietagrūdis, Svogūninė kartenė, Mėlynialapis karklas, Plaukuotoji jonažolė, Žalsvažiedė blandis, Kalninė jonažolė, Borbašo gvazdikas, Plaukuotasis gurgždis, Blyškioji džioveklė, Penkialapis dobilas, Ilgagalvis dobilas, Kvapioji dirvuolė, Prūsinis begalis, Stačioji vaisgina, Įvairialapė usnis, Pelkinė uolaskėlė, Paprastoji tuklė, Siauralapė smiltė, Dygioji slyva, Tuščiaviduris rūtenis, Dirvinė raugė, Raktažolė pelenėlė, Mėlynasis palemonas, Žalsvoji naktižiedė, Plikažiedis linlapis, Smiltyninis laibenis, Boloninis katilėlis, Laplandinis karklas, Didžiažiedė juodgalvė, Pievinė gencijonėlė, Melsvasis gencijonas, Smiltyninė druskė, Liekninis beržas, Stačioji dirvuolė, Juodgalvė bajorė, Pievinis auksveitis, Kalninė arnika, Miškinė žiomenė, Pajūrinė zunda, Pajūrinė širdažolė, Pelkinis ratenas, Vaistinė raitinytė, Lankstusis plukenis, Gelsvasis palėnas, Pražangiažiedė plunksnalapė, Retažiedė miglė, Vandeninė plaumuonė, Pajūrinė pienažolė, Griovinė našlaitė, Melisalapė medumėlė, Ežerinė lobelija, Trižiedis lipikas, Gulsčiasis karklas, Trumpalapis skiautalūpis, Puošnusis gvazdikas, Juosvavarpis pašiaušėlis, Gauruotasis gvazdikas, Siauralapė gegūnė, Miškinė glindė, Karališkoji glindė, Pelkinė gencijonėlė, Siauralapis gencijonas, Gebenė lipikė, Tyrulinė erika, Smėlyninis eraičinas, Trilapė bligna, Pievinė vištapienė, Beržas keružis, Raudonžiedis berutis, Galvinis vikšris, Salpinis pelėdgalvis, Druskinis astruolis, Protarpinė viksva, Pūslėtoji aldrūnė, Pelkinė raistenė, Pievinė viksva, Liūninė viksva, Ankstyvoji smilgenė, Pievinė avižaitė, Smiltyninis gvazdikas, Lygioji seligerija, Eraičininė nendrūnė, Gelsvoji gegūnė, Miškinis eraičinas, Porinis česnakas, Kampuotasis česnakas, Sibirinis vilkdalgis, Gauruotoji viksva, Skiauterėtasis kiminas, Lieknasis švylys, Tamsialapis skiautalūpis, Šakotoji ratainytė, Dvilapis purvuolis, Pievinis plauretis, Žalioji gegūnė, Pajūrinė naryžolė, Lietuvinė monažolė, Melsvasis mėlitas, Pelkinė laksva, Plačialapė klumpaitė, Paprastasis kardelis, Nariuotoji ilgalūpė, Dantytoji skomenė, Vyriškoji gegužraibė, Šalmuotoji gegužraibė, Mažasis anakamptis, Dėmėtoji gegūnė, Vienalapis gedutis, Širdinė dviguonė, Miškinė dirsuolė, Dirvinis česnakas, Pelkinis vikšris, Druskinis vikšris, Rusvasis vikšrenis, Raistinė viksva, Pelkinė vilktabokė, Taurinė pudmė, Mažasis plukenis, Siūlinė plūdė, Miškinė plikaplaiskė, Kvapusis plauretis, Musinis ofris, Europinis miežvienis, Vienagumbis medauninkas, Smulkiažiedė svila, Raiboji gegūnė, Plačialapė gegūnė, Raudonasis garbenis, Kardalapis garbenis, Stačioji dirsuolė, Belapė antbarzdė, Palaipinė viksva, Pelkinis kardelis, Širdžialapė kaldezija, Baltijinė linažolė, Keturskiautis žvaigždinas, Didysis žvaigždinas, Kiunerio žvynabudė, Kvapioji ūmėdė, Pilkoji voveraitė, Baltoji skydabudė, Kvapusis skiautenis, Melsvakotė stirnabudė, Pilkšvarudė stirnabudė, Skaisčioji raudonpintė, Gelsvasis piengrybis, Juodkotis mažūnis, Atskiroji lentarija, Kvapnioji kempė, Piengrybis jautakis, Juosvoji guotė, Mėsingasis dyglutis, Suaugtinė dirvapintė, Aitrusis baltikas, Gumbuotasis baltnuosėdis, Balsvoji žvynabudė, Lelijinė žvynabudė, Rausvarudė žvynabudėlė, Juodažvynė žvynabudė, Nuosėdinė žvynabudė, Kelminis žalialakštis, Dvisluoksnis vingiaporis, Auksaviršė ūmėdė, Korališkasis trapiadyglis, Vientisasis skylutis, Ąžuolinis skylenis, Plunksninis raukšliagrybis, Kurapkinis storplutis, Kislusis piengrybis, Didysis pievagrybis, Salierinis baltikas, Putlioji odapintė, Trispalvė meškabudė, Krokinis minkštenis, Raukšlius kopūstgalvis, Ąžuolinė kepena, Ūmėdinė guotė, Purpurinė guotė, Melsvoji gijabudė, Tikrinis blizgutis, Melsvoji balteklė, Dėmėtasis baravykas, Raudonkepuris aksombaravykis, Plonakotis dyglutėlis, Dulkančioji žvaigždėsporė, Trogo virvuotė, Medūzgalvė trapiabudė, Auksaspalvis šakočius, Kamštinis skylenis, Šakotoji skylėtbudė, Piestinis pirštūnis, Rausvoji pintainė, Aitriakvapis piengrybis, Bronzinis baravykas, Fechtnerio baravykas, Bačo baltikas, Obelinis minkštadyglis, Parazitinis aksombaravykis, Požeminė hidnotrija, Kislusis elniagrybis, Krateriškasis taurūnis, Puslaisvis briedžiukas, Pirštuotasis aukšliavarpis, Bohemiškasis aukšliavarpis, Geltonasis kiškiaausis, Ryškioji gražiataurė, Apskritasporis bobausis, Kimininis žemlielys, Šiurkštusis grybliežuvis, Baltasis godūnas, Vasarinis skydvėžis, Smiltyninis ausūnis, Paprastasis taukius, Alksninė hipotrachina, Žalsvoji kežytė, Plačioji platužė, Baltakraštė artonija, Juodžalis rizokarpas, Skylėtoji menegacija, Suodinoji saitakerpė, Gūbriuotoji pūsliakerpė, Daugialakštė saitakerpė, Mužo auksakežis, Ąžuolinė baktrospora, Tamsioji brylytė, Šviesiagalvė brylytė, Dantytoji telotrema, Miltuotoji brylytė, Kraujaspalvis mikoblastas, Kerpiškasis gleivytis, Žaliagalvė taurenė, Parazitinė šiurė, Šilinė puvėseklė, Plonašakė ramalina, Gulsčioji meškapėdė, Smulkialakštis juodkežis, Latakinis gleivytis, Kislioji briedragė, Glebioji gleiviakerpė, Melsvoji žiovenė, Skėtrioji briedragė, Kupstinė šiurė, Baltagyslė meškapėdė, Putlioji šiurė, Riestalakštė nefroma, Šeriuotoji žiovenė, Ąžuolinė taurenė, Medicininė dėlė, Reliktinė mizidė, Pavasarinis skydvėžis, Geltonoji plutpintenė, Plačiažnyplis vėžys, Geltonkojis žirgelis, Žieduotoji strėliukė, Mažoji nehalenija, Pleištinis žirgelis, Šarvuotoji skėtė, Grakščioji skėtė, Baltakaktė skėtė, Žaliasis laumžirgis, Geltonžiedis kordulegastras, Johansono strėliukė, Šiaurinis laumžirgis, Mažoji išnura, Rudajuostė skėtė, Baltataškė pleštekė, Pietinis gelsvys, Spalvotasis pelkiasprindis, Smilčiasprindis, Nakvišinis sfinksas, Raudonsparnė meškutė, Baltajuostis melsvys, Stepinis melsvys, Didysis auksinukas, Akiuotasis satyras, Rudakis satyriukas, Juodasis apolonas, Machaonas, Vingirinis sprindytis, Estinė cidarija, Pilkšvarudė bankera, Juodmargis pelkinukas, Baltajuostis juodsprindis, Pajūrinis stiebinukas, Pajūrinė kukulija, Pajūrinis dirvinukas, Ąžuolinis stiklasparnis, Juodalksninis stiklasparnis, Pušinis keliaujantis kuoduotis, Pietinis marguolis, Raudonžiedis marguolis, Geltonmargė meškutė, Smiltyninė hesperija, Juodoji hesperija, Rudmargė hesperija, Smiltyninis melsvys, Margasis grambuolys, Žalsvasis melsvys, Gencijoninis melsvys, Taškuotasis melsvys, Kraujalakinis melsvys, Šiaurinis auksinukas, Baltamargė šaškytė, Auksuotoji 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Kopinė smiltvapsvė, Gauruotoji skolija, Ilgažandis bembiksas, Šieninė gaurabitė, Raukšlėtoji smėliabitė, Mėlynsparnė apsiuva, Gėlavandenė perluotė, Kalninė cikada, Besparnis skėriukas, Kopinis tarkšlys, Mažoji ankstyvė, Pūstoji suktenė, Keturdantė suktenė, Mažoji suktenė, Vynuoginė sraigė, Didysis arionas, Ovalioji geldutė, Paprastasis kūjagalvis, Baltijinis kirtiklis, Vijūnas, Paprastasis kirtiklis, Kartuolė, Ožka, Skersasnukis, Paprastasis sparis, Kalkiamėgė dygiabudė, Salatis, Ežerinė rainė, Kiršlys, Baltijos sykas, Peledė, Seliava, Ežerinis sykas, Lašiša, Perpelė, Sturys, Jūrinė nėgė, Mažoji nėgė, Upinė nėgė, Žalioji rupūžė, Nendrinė rupūžė, Paprastoji česnakė, Didžioji kūdrinė varlė, Ežerinė varlė, Mažoji kūdrinė varlė, Smailiasnukė varlė, Pievinė varlė, Raudonpilvė kūmutė, Europinė medvarlė, Skiauterėtasis tritonas, Lygiažvynis žaltys, Vikrusis driežas, Balinis vėžlys, Geltonsnapis naras, Ledinis naras, Juodakaklis naras, Kvapioji ragapintė, Rudakaklis naras, Juodakaklis kragas, Raguotasis kragas, Rudakaklis kragas, Ausuotasis kragas, Mažasis kragas, Šiaurinis audrašauklis, Rožinis pelikanas, Didysis kormoranas, Girnovė, Šventasis ibis, Rudasis ibis, Baltasis gandras, Šaukštasnapė antis, Juodasis gandras, Purpurinis garnys, Pilkasis garnys, Didysis baltasis garnys, Mažasis baltasis garnys, Ibiškasis garnys, Naktikovis, Mažasis baublys, Didysis baublys, Flamingas, Didysis dančiasnapis, Vidutinis dančiasnapis, Mažasis dančiasnapis, Klykuolė, Paprastoji nuodėgulė, Juodoji antis, Ledinė antis, Islandinė antis, Sibirinė gaga, Skiauterėtoji gaga, Paprastoji gaga, Žiloji antis, Kuoduotoji antis, Paprastoji rudė, Rudagalvė antis, Šalminė antis, Dryžagalvė kryklė, Smailiauodegė antis, Didžioji antis, Rudagalvė kryklė, Pilkoji antis, Amerikinė cyplė, Eurazinė cyplė, Urvinė antis, Rudoji urvinė antis, Egiptinė žąsis, Rudakaklė berniklė, Paprastoji berniklė, Baltaskruostė berniklė, Kanadinė berniklė, Snieginė žąsis, Trumpasnapė žąsis, Kalninė žąsis, Pilkoji žąsis, Mažoji žąsis, Baltakaktė žąsis, Želmeninė žąsis, Gulbė giesmininkė, Mažoji gulbė, Gulbė nebylė, Sakalas keleivis, Medžioklinis sakalas, Eurazinis sketsakalis, Paprastasis startsakalis, Kėkštas, Raudonkojis sakalas, Paprastasis pelėsakalis, Stepinis pelėsakalis, Erelis žuvininkas, Kilnusis erelis, Nykštukinis erelis, Stepinis erelis , Karališkasis erelis, Didysis erelis rėksnys, Mažasis erelis rėksnys, Stepinis suopis, Tūbuotasis suopis, Paprastasis suopis, Paukštvanagis, Sodinė devynbalsė, Paprastasis vištvanagis, Pievinė lingė, Stepinė lingė, Javinė lingė, Nendrinė lingė, Paprastasis gyvatėdis, Palšasis grifas, Jūrinis erelis, Rudasis peslys, Juodasis peslys, Vakarinis vapsvaėdis , Plokščiasnapis plaukikas, Putpelė, Paprastasis fazanas, Vakarinis kurtinys, Eurazinis tetervinas, Žvyrė, Jerubė, Didysis einis, Puošnusis einis, Pilkoji gervė, Laukys, Nendrinė vištelė, Paprastoji griežlė, Plovinė vištelė, Paprastoji švygžda, Kietasis laibadyglis, Ilgasnapė vištelė, Baltasparnė žuvėdra, Juodoji žuvėdra, Baltaskruostė žuvėdra, Mažoji žuvėdra, Poliarinė žuvėdra, Upinė žuvėdra, Margasnapė žuvėdra, Plėšrioji žuvėdra, Balnotasis kiras, Geltonkojis kiras, Sidabrinis kiras, Silkinis kiras, Paprastasis kiras, Rudagalvis kiras, Juodagalvis kiras, Mažasis kiras, Kiras kvatoklis, Smailiauodegis plėšikas, Apvaliasnapis plaukikas, Akmenė, Krantinis tilvikas, Terekija, Miškinis tikutis, Brastinis tilvikas, Žaliakojis tulikas, Kūdrinis tilvikas, Raudonkojis tulikas, Tamsusis tilvikas, Didžioji kuolinga, Vidutinė kuolinga, Laplandinis griciukas, Paprastasis griciukas, Slanka, Tikrasis žvynbaravykis, Paprastasis stulgys, Perkūno oželis, Oželis nykštukas, Gaidukas, Plokščiasnapis bėgikas, Juodakrūtis bėgikas, Jūrinis bėgikas, Riestasnapis bėgikas, Teminko bėgikas, Mažasis bėgikas, Smiltinukas, Islandinis bėgikas, Baltauodegė pempė, Paprastoji pempė, Jūrinis sėjikas, Rudoji devynbalsė, Dirvinis sėjikas, Mornelis, Jūrinis kirlikas, Upinis kirlikas, Storkulnis, Paprastoji avocetė, Eurazinė jūrškarkė, Paprastasis purplelis, Pietinis purplelis, Keršulis, Paprastasis uldukas , Uolinis karvelis, Sadža, Paprastoji lututė, Balinė pelėda, Mažasis apuokas, Laplandinė pelėda, Uralinė pelėda, Naminė pelėda, Paprastoji pelėdikė,

Žvirblinė pelėda, Raiboji pelėda, Baltoji pelėda, Didysis apuokas, Apuokėlis, Liepsnotoji pelėda, Lėlys, Kukutis, Europinis žalvarnis, Bitininkas, Nendrinė starta, Paprastasis tulžys, Tripirštis genys, Mažasis margasis genys, Baltanugaris genys, Vidutinis genys, Didysis margasis genys, Juodoji meleta, Žalioji meleta, Pilkoji meleta, Grąžiagalvė, Mažoji starta, Vakarinė starta, Šiaurinė starta, Pilkoji starta, Sodinė starta, Geltonoji starta, Sniegstartė, Pentinuotoji starta, Svilikas, Pušinė sniegena, Raudongalvė sniegena, Pušinis kryžiasnapis, Eglinis kryžiasnapis, Margasparnis kryžiasnapis, Poliarinis čimčiakas, Čimčiakas, Geltonsnapis čivylis, Čivylis, Alksninukas, Dagilis, Žaliukė, Svilikėlis, Naminis žvirblis, Rožinis varnėnas, Varnėnas, Kranklys, Pilkoji varna, Kovas, Kuosa, Riešutinė, Šarka, Upinė odkerpė, Plėšrioji medšarkė, Juodakaktė medšarkė, Paprastoji medšarkė, Volungė, Remeza, Sodinis liputis, Liputis, Bukutis, Didžioji zylė, Žydroji zylė, Mėlynoji zylė, Juodoji zylė, Kuoduotoji zylė, Šiaurinė pilkoji zylė, Paprastoji pilkoji zylė, Ilgauodegė zylė, Pilkoji devynbalsė, Ūsuotoji zylė, Margasparnė musinukė, Baltakaklė musinukė, Mažoji musinukė, Pilkoji musinukė, Baltabruvis nykštukas, Nykštukas, Ankstyvoji pečialinda, Pilkoji pečialinda, Žalioji pečialinda, Rudoji pečialinda, Storasnapė pečialinda, Sajaninė pečialinda, Geltonbruvė pečialinda, Nykštukinė pečialinda, Arktinė pečialinda, Šiaurinė pečialinda, Raudonakė devynbalsė, Juodagalvė devynbalsė, Upinis gleivytis, Raiboji devynbalsė, Tošinukė, Didžioji krakšlė, Mažoji krakšlė, Karklinė nendrinukė, Indinė nendrinukė, Sodinė nendrinukė, Ežerinė nendrinukė, Meldinė nendrinukė, Nendrinis žiogelis, Upinis žiogelis, Margasis žiogelis, Amalinis strazdas, Baltabruvis strazdas, Strazdas giesmininkas, Smilginis strazdas, Juodasis strazdas, Baltagurklis strazdas, Kultupys, Gauruotasis gleivytis, Juodagalvė kiauliukė, Kiauliukė, Paprastoji raudonuodegė, Dūminė raudonuodegė, Paprastoji mėlyngurklė, Dvispalvis plikšnys, Šiaurinis šikšnys, Vėlyvasis šikšnys, Šikšniukas nykštukas, Natuzijaus šikšniukas, Mažasis nakviša, Rudasis nakviša, Europinis plačiaausis, Ūdra, Rudasis ausylis, Natererio pelėausis, Branto pelėausis, Vandeninis pelėausis, Kūdrinis pelėausis, Beržinė sicista, Miškinė miegapelė, Ąžuolinė miegapelė, Lazdyninė miegapelė, Didžioji miegapelė, Lūšis, Juodasis šeškas, Europinė audinė, Šermuonėlis, Miškinė kiaunė, Rudasis lokys, Vilkas, Ilgasnukis ruonis, Paprastasis ruonis, Žieduotasis ruonis, Kietoji guotė, Grakščioji žiovenė, Stumbras, Jūros kiaulė, Baltasis banginis, Baltasis kiškis, Hadriano poniabudė, Šuniškoji poniabudėlė, Juodasis piengrybis, Juosvasis minkštūnis, Auksaspalvis minkštenis, Dubioji laibė, Didysis kuokas, Gyslotoji kremzliabudė, Tikrasis juodbaravykis, Geltonžvynė guotė, Kartusis baravykas, Kislusis baravykas, Blyškusis baravykas, Vakarinė lakštingala, Lakštingala, Liepsnelė, Sibirinis eršketžvirblis, Eršketžvirblis, Karetaitė, Vandeninis strazdas, Paprastasis svirbelis, Baltoji kielė, Kalninė kielė, Geltongalvė kielė, Juostakaktis svirplys, Geltonoji kielė, Vandeninis kalviukas, Rudagurklis kalviukas, Pievinis kalviukas, Tundrinis kalviukas, Miškinis kalviukas, Dirvoninis kalviukas, Langinė kregždė, Šelmeninė kregždė, Urvinė kregždė, Raguotasis vieversys, Dirvinis vieversys, Lygutė, Kuoduotasis vieversys, Trumpapirštis vieversys, Pilkasis vieversys, Kalninis spragtukas, Kvapioji žemtaurė, Paprastoji plojenė, Vingrioji rikardija, Pūpsninė žilutė, Tundrinė liūnsamanė, Didžioji džioveklė, Rusvoji saidra, Žalsvoji gijabudė, Juosvoji guotenė, Tamsiarudė kempinė, Pilkoji baravykpintė, Ąžuolinis pintenis, Lazdynis kelmenis, Rausvoji šeriapintė, Pilkoji miltpuodė, Geltonoji miltpuodė, Lieknoji žiovenė, Flotovo gialekta, Guobinė gialekta, Adatiškasis gleivytis, Miltuotoji nefroma, Aštriašnipis ersketas, Pilkoji kurapka, Slapioji šiurpenė, Margasis tarkšlys, Šarvuotoji strėliukė, Smailiaragis mėšlavabalis, Geltonkailis trumpasparnis, Juodasis satyras, Didžioji anchinija, Rūdiškasis drevėspragšis, Didžioji auksavapsvė, Raudonkrūtis niūravabalis, Krekeninis kerpvabalis, Šikšniukas mažylis, Boružinis storagalvis, Helerio kryžmataurė, Baltasis čemerys, Mažasis progailis, Pelkinis kalnasargis, Baltoji žvynabudėlė, Didžioji karteklė, Kuokštinė grifolė, Paelbinis skiautalūpis, Dvilapė blandis, Smiltyninio gvazdiko borusinis porūšis, Smiltyninio gvazdiko tipinis porūšis, Nenustatyta rūšis, Tamsioji vakarinė medunešė bitė, Pelkinis kelmutis, Violetinis žagarūnis, Pelkinis kazlėkas, Gelsvoji viksvuolė, Kojūkas

Teritorijoje aptinkamų prašytų saugomų rūšių radaviečių ir augaviečių apžvalginis žemėlapis:



Sutartiniai ženklai

- Prašytos teritorijos ribos
- Radavietės (pavieniai stebėjimai)
- Radavietės

Teritorijoje aptiktos radavietės

Teritorijoje aptinkamų prašytų saugomų rūšių radavietės:

Nr.	Pavadinimas	Lot. pavadinimas	Radavietės kodas	Plotas	Paskutinio stebėjimo data
1.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186265	4.00 m²	2024-07-12
2.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186266	4.00 m²	2024-07-12
3.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186346	4.00 m²	2024-07-12
4.	Nenustatyta rūšis	*Nenustatyta rūšis*	RAD-NEN-186613	4.00 m²	2024-07-11
5.	Nenustatyta rūšis	*Nenustatyta rūšis*	RAD-NEN-186624	4.00 m²	2024-07-11
6.	Nenustatyta rūšis	*Nenustatyta rūšis*	RAD-NEN-186664	4.00 m²	2024-07-11
7.	Mažasis erelis rėksnys	*Clanga pomarina*	RAD-CLA-POM-54038	4.00 m²	2024-07-05
8.	Mažasis erelis rėksnys	*Clanga pomarina*	RAD-CLA-POM-186292	4.00 m²	2024-07-05
9.	Mažasis erelis rėksnys	*Clanga pomarina*	RAD-CLA-POM-186293	4.00 m²	2024-07-05
10.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186594	4.00 m²	2024-07-03
11.	Nenustatyta rūšis	*Nenustatyta rūšis*	RAD-NEN-186606	4.00 m²	2024-07-03
12.	Nenustatyta rūšis	*Nenustatyta rūšis*	RAD-NEN-186620	4.00 m²	2024-07-03
13.	Nenustatyta rūšis	*Nenustatyta rūšis*	RAD-NEN-186607	4.00 m²	2024-06-29
14.	Nenustatyta rūšis	*Nenustatyta rūšis*	RAD-NEN-186610	4.00 m²	2024-06-29
15.	Nenustatyta rūšis	*Nenustatyta rūšis*	RAD-NEN-186615	4.00 m²	2024-06-29
16.	Nenustatyta rūšis	*Nenustatyta rūšis*	RAD-NEN-186616	4.00 m²	2024-06-29
17.	Nenustatyta rūšis	*Nenustatyta rūšis*	RAD-NEN-186648	4.00 m²	2024-06-28
18.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186273	4.00 m²	2024-06-23
19.	Baltasis gandras	*Ciconia ciconia*	RAD-CIC-CIC-187322	3.00 m²	2024-06-23
20.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186270	4.00 m²	2024-06-22
21.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186322	4.00 m²	2024-06-22
22.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186258	4.00 m²	2024-06-20
23.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186269	4.00 m²	2024-06-20
24.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186345	4.00 m²	2024-06-20
25.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-186350	4.00 m²	2024-06-20
26.	Baltasis gandras	*Ciconia ciconia*	RAD-CIC-CIC-187307	3.00 m²	2024-04-28
27.	Kovas	*Corvus frugilegus*	RAD-COR-FRU-187315	1632.00 m²	2024-04-28
28.	Kovas	*Corvus frugilegus*	RAD-COR-FRU-187316	2322.00 m²	2024-04-28
29.	Kovas	*Corvus frugilegus*	RAD-COR-FRU-187317	558.00 m²	2024-04-28
30.	Baltasis gandras	*Ciconia ciconia*	RAD-CIC-CIC-187306	4.00 m²	2024-04-18
31.	Paprastasis suopis	*Buteo buteo*	RAD-BUT-BUT-185819	2.00 m²	2024-03-28
32.	Mažasis erelis rėksnys	*Clanga pomarina*	RAD-CLA-POM-54108	4.00 m²	2023-07-19
33.	Mažasis erelis rėksnys	*Clanga pomarina*	RAD-CLA-POM-117	3.00 m²	2023-03-14
34.	Kurapkinis storplutis	*Xylobolus frustulatus*	RAD-XYL-FRU-33405	3.00 m²	2014-10-26
35.	Vidutinis genys	*Leiopicus medius*	RAD-DEN-MED-3108	2.00 km²	2014-04-20
36.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	RAD-XES-RUF-43016	3.00 m²	2013-06-12
37.	Putpelė	*Coturnix coturnix*	RAD-COT-COT-23423	3.00 m²	2012-06-15
38.	Baltasis gandras	*Ciconia ciconia*	RAD-CIC-CIC-51141	3.00 m²	2010-08-09
39.	Baltasis gandras	*Ciconia ciconia*	RAD-CIC-CIC-51144	3.00 m²	2010-08-09
40.	Baltasis gandras	*Ciconia ciconia*	RAD-CIC-CIC-51134	3.00 m²	2010-08-06
41.	Pievinė lingė	*Circus pygargus*	RAD-CIR-PYG-6866	0.25 km²	2010-06-10
42.	Baltasis gandras	*Ciconia ciconia*	RAD-CIC-CIC-23315	3.00 m²	2010-04-24
43.	Baltasis gandras	*Ciconia ciconia*	RAD-CIC-CIC-23321	3.00 m²	2010-04-24
44.	Baltasis gandras	*Ciconia ciconia*	RAD-CIC-CIC-23344	3.00 m²	2010-04-24

Nr.	Pavadinimas	Lot. pavadinimas	Radavietės kodas	Plotas	Paskutinio stebėjimo data
45.	Baltasis gandras	*Ciconia ciconia*	RAD-CIC-CIC-23350	3.00 m²	2010-04-24
46.	Korališkasis trapiadyglis	*Hericium coralloides*	RAD-HER-COR-26919	3.00 m²	2007-10-10
47.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	RAD-XES-RUF-33406	3.00 m²	2003-09-08
48.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	RAD-XES-RUF-34177	3.00 m²	2003-06-09
49.	Putpelė	*Coturnix coturnix*	RAD-COT-COT-22388	3.00 m²	1999-06-19

Teritorijoje aptinkamų prašytų saugomų rūšių radavietės (pavieniai stebėjimai):

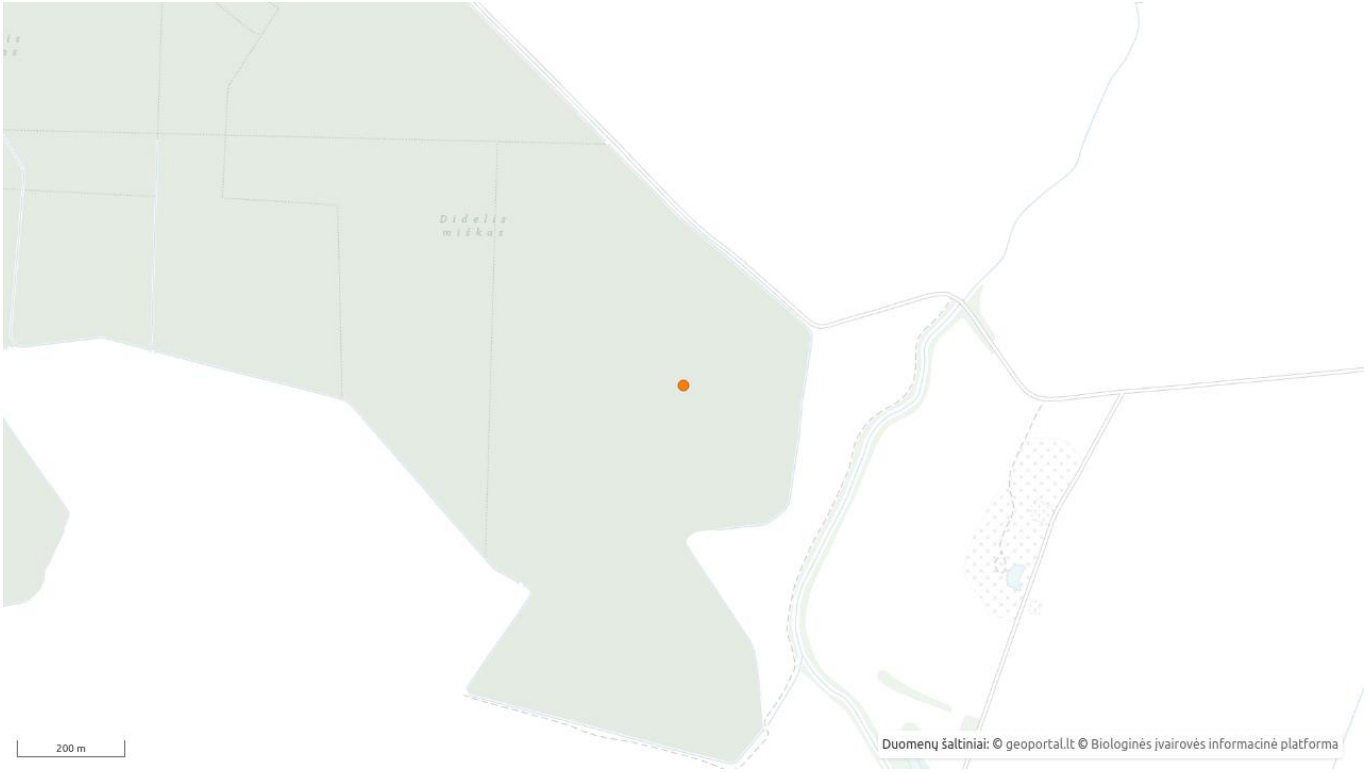
Nr.	Pavadinimas	Lot. pavadinimas	Stebėjimo data
1.	Machaonas	*Papilio machaon*	2025-06-03
1.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	2003-09-18
2.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	2003-09-18
3.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	2003-09-18
4.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	2003-09-05
5.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	2003-08-19
6.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	2003-08-19
7.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	2003-07-01
8.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	2003-06-12
9.	Ąžuolinis skaptukas	*Xestobium rufovillosum*	2003-06-12
1.	Niūriaspalvis auksavabalis	*Osmoderma barnabita*	2003-07-01
1.	Juodasis gandras	*Ciconia nigra*	1997-07-20
2.	Juodasis gandras	*Ciconia nigra*	1997-06-05
1.	Paprastasis pelėsakalis	*Falco tinnunculus*	1997-07-20
1.	Mažasis erelis rėksnys	*Clanga pomarina*	1999-06-19
2.	Mažasis erelis rėksnys	*Clanga pomarina*	1999-06-19
3.	Mažasis erelis rėksnys	*Clanga pomarina*	1997-06-05
1.	Pievinė lingė	*Circus pygargus*	2013-06-29
1.	Paprastoji griežlė	*Crex crex*	2024-05-27
2.	Paprastoji griežlė	*Crex crex*	2022-06-27
1.	Paprastoji pelėdikė	*Athene noctua*	2023-06-29
1.	Paprastoji medšarkė	*Lanius collurio*	2024-06-29
2.	Paprastoji medšarkė	*Lanius collurio*	2024-06-25
3.	Paprastoji medšarkė	*Lanius collurio*	2024-06-25
4.	Paprastoji medšarkė	*Lanius collurio*	2024-06-25
5.	Paprastoji medšarkė	*Lanius collurio*	2024-06-04
6.	Paprastoji medšarkė	*Lanius collurio*	2022-06-27
7.	Paprastoji medšarkė	*Lanius collurio*	2022-06-27
8.	Paprastoji medšarkė	*Lanius collurio*	2022-06-24
9.	Paprastoji medšarkė	*Lanius collurio*	2022-06-24
1.	Sodinė nendrinukė	*Acrocephalus dumetorum*	2022-07-02
1.	Dvispalvis plikšnys	*Vespertilio murinus*	2015-07-23
1.	Vėlyvasis šikšnys	*Eptesicus serotinus*	2015-07-23
1.	Šikšniukas nykštukas	*Pipistrellus pipistrellus*	2015-07-23
1.	Rudasis nakviša	*Nyctalus noctula*	2015-07-23
1.	Lazdyninė miegapelė	*Muscardinus avellanarius*	1992-09-05
2.	Lazdyninė miegapelė	*Muscardinus avellanarius*	1965-05-15
1.	Pilkoji kurapka	*Perdix perdix*	2024-06-25
2.	Pilkoji kurapka	*Perdix perdix*	2024-05-18

Radavietės

1. RAD-BUT-BUT-186265 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186265
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-12	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

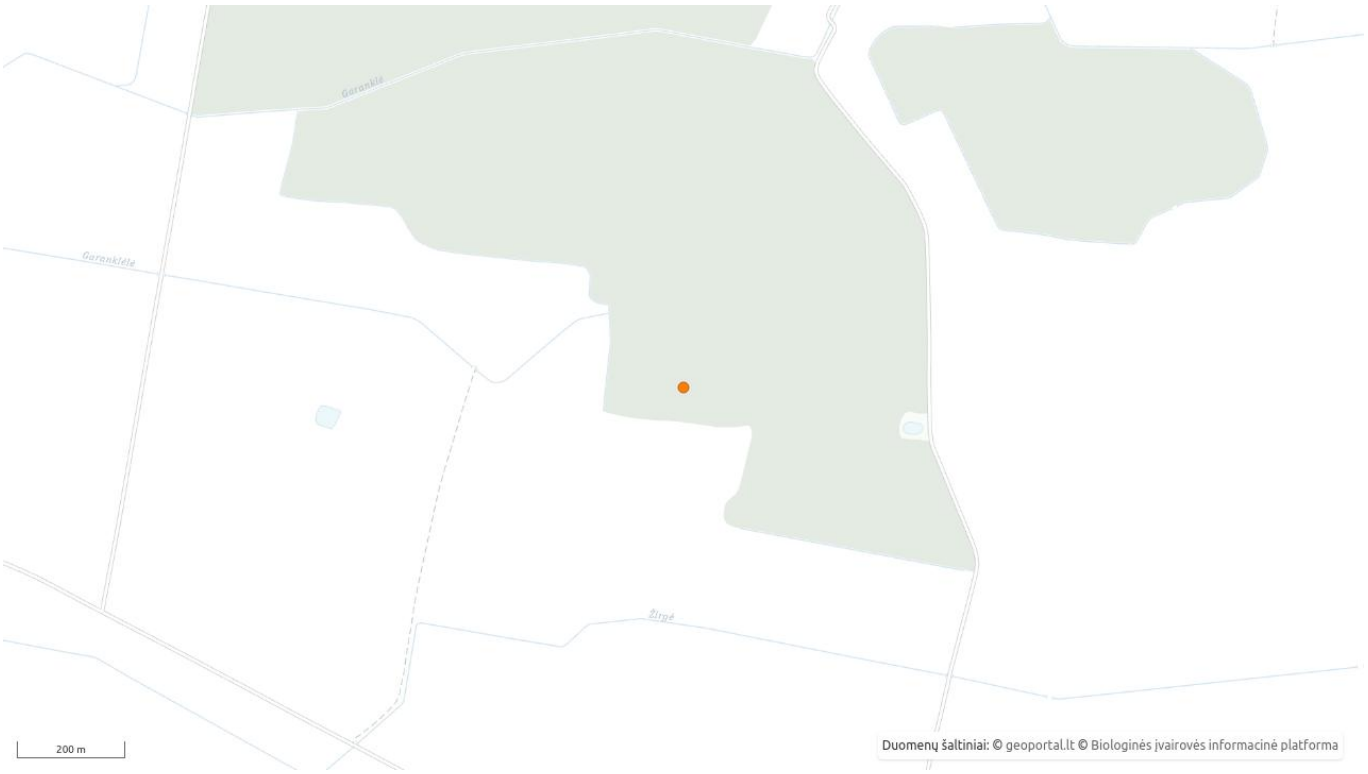
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[511567 6121229, 511567 6121229, 511567 6121229, 511567 6121228, 511567 6121228, 511567 6121228, 511566 6121228, 511566 6121228, 511566 6121228, 511566 6121228, 511566 6121228, 511565 6121228, 511565 6121228, 511565 6121228, 511565 6121229, 511565 6121229, 511565 6121229, 511565 6121229, 511565 6121229, 511565 6121230, 511565 6121230, 511565 6121230, 511566 6121230, 511566 6121230, 511566 6121230, 511566 6121230, 511566 6121230, 511567 6121230, 511567 6121230, 511567 6121230, 511567 6121230, 511567 6121229, 511567 6121229, 511567 6121229]]]

2. RAD-BUT-BUT-186266 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186266
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-12	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

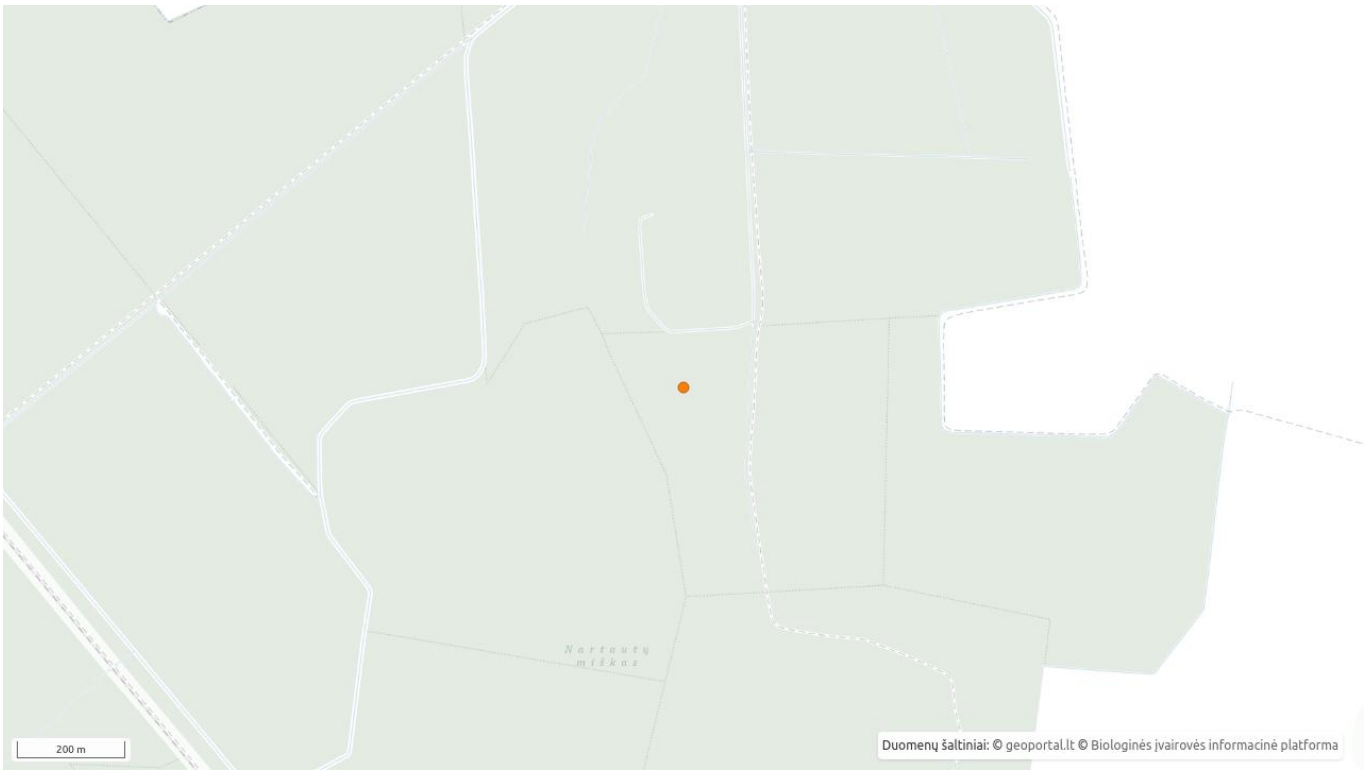
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512878 6118153, 512878 6118153, 512878 6118153, 512878 6118152, 512878 6118152, 512878 6118152, 512877 6118152, 512877 6118152, 512877 6118152, 512877 6118152, 512877 6118152, 512876 6118152, 512876 6118152, 512876 6118152, 512876 6118153, 512876 6118153, 512876 6118153, 512876 6118153, 512876 6118153, 512876 6118154, 512876 6118154, 512876 6118154, 512877 6118154, 512877 6118154, 512877 6118154, 512877 6118154, 512878 6118154, 512878 6118154, 512878 6118154, 512878 6118153, 512878 6118153, 512878 6118153]]]

3. RAD-BUT-BUT-186346 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186346
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-12	2	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

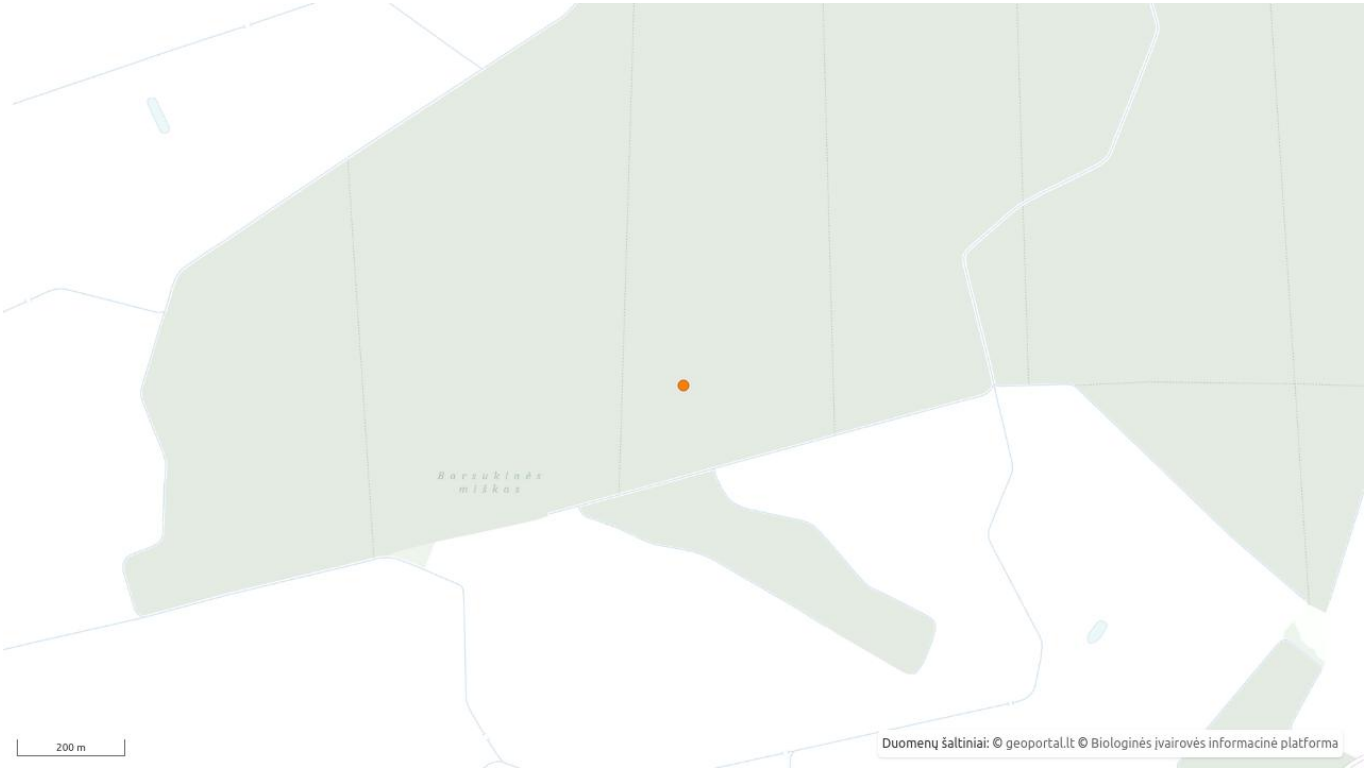
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[509196 6117559, 509196 6117559, 509196 6117559, 509196 6117558, 509196 6117558, 509196 6117558, 509195 6117558, 509195 6117558, 509195 6117558, 509195 6117558, 509195 6117558, 509194 6117558, 509194 6117558, 509194 6117558, 509194 6117559, 509194 6117559, 509194 6117559, 509194 6117559, 509194 6117559, 509194 6117560, 509194 6117560, 509194 6117560, 509195 6117560, 509195 6117560, 509195 6117560, 509195 6117560, 509195 6117560, 509196 6117560, 509196 6117560, 509196 6117560, 509196 6117559, 509196 6117559, 509196 6117559]]]

4. RAD-NEN-186613 (Nenustatyta rūšis)

Radavietės / augavietės kodas	RAD-NEN-186613
Pavadinimas	Nenustatyta rūšis
Lot. pavadinimas	*Nenustatyta rūšis*
Įtraukta į sąrašus	-
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-11	0	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

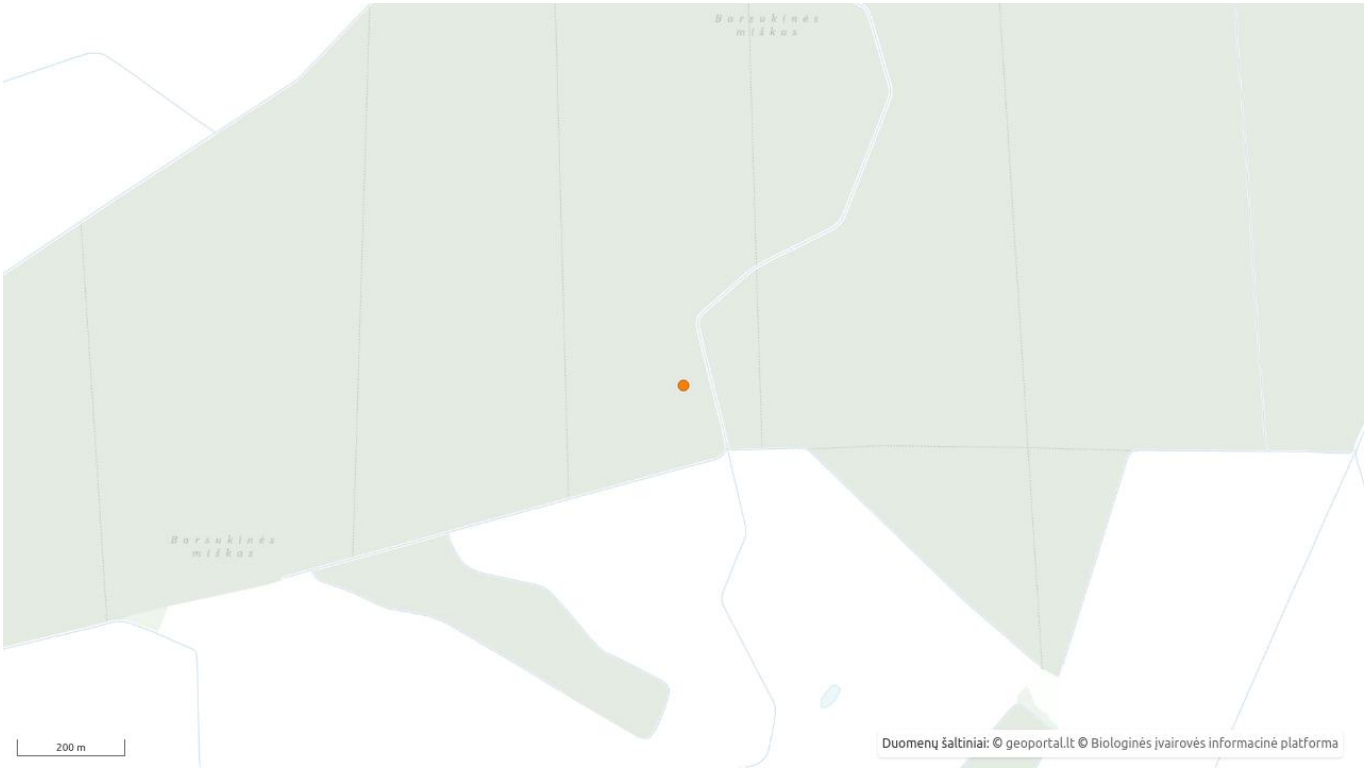
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[506507 6112242, 506507 6112242, 506507 6112242, 506507 6112241, 506507 6112241, 506507 6112241, 506506 6112241, 506506 6112241, 506506 6112241, 506506 6112241, 506506 6112241, 506505 6112241, 506505 6112241, 506505 6112241, 506505 6112242, 506505 6112242, 506505 6112242, 506505 6112242, 506505 6112242, 506505 6112243, 506505 6112243, 506505 6112243, 506506 6112243, 506506 6112243, 506506 6112243, 506506 6112243, 506506 6112243, 506507 6112243, 506507 6112243, 506507 6112243, 506507 6112242, 506507 6112242, 506507 6112242]]]

5. RAD-NEN-186624 (Nenustatyta rūšis)

Radavietės / augavietės kodas	RAD-NEN-186624
Pavadinimas	Nenustatyta rūšis
Lot. pavadinimas	*Nenustatyta rūšis*
Įtraukta į sąrašus	-
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-11	0	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[506997 6112360, 506997 6112360, 506997 6112360, 506997 6112359, 506997 6112359, 506997 6112359, 506996 6112359, 506996 6112359, 506996 6112359, 506996 6112359, 506996 6112359, 506995 6112359, 506995 6112359, 506995 6112359, 506995 6112360, 506995 6112360, 506995 6112360, 506995 6112360, 506995 6112360, 506995 6112361, 506995 6112361, 506995 6112361, 506996 6112361, 506996 6112361, 506996 6112361, 506996 6112361, 506996 6112361, 506997 6112361, 506997 6112361, 506997 6112361, 506997 6112360, 506997 6112360, 506997 6112360]]]

6. RAD-NEN-186664 (Nenustatyta rūšis)

Radavietės / augavietės kodas	RAD-NEN-186664
Pavadinimas	Nenustatyta rūšis
Lot. pavadinimas	*Nenustatyta rūšis*
Įtraukta į sąrašus	-
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-11	0	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

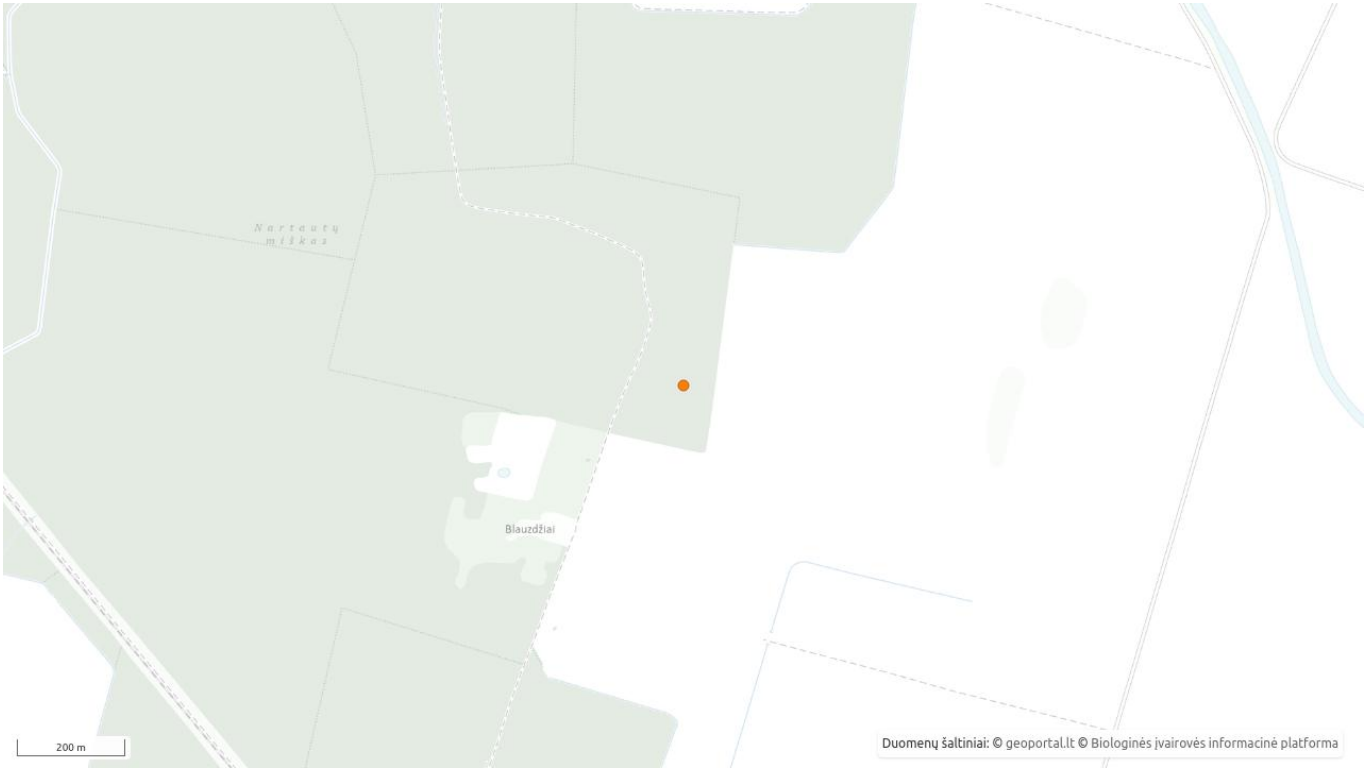
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[506525 6112156, 506525 6112156, 506525 6112156, 506525 6112155, 506525 6112155, 506525 6112155, 506524 6112155, 506524 6112155, 506524 6112155, 506524 6112155, 506524 6112155, 506523 6112155, 506523 6112155, 506523 6112155, 506523 6112156, 506523 6112156, 506523 6112156, 506523 6112156, 506523 6112156, 506523 6112157, 506523 6112157, 506523 6112157, 506524 6112157, 506524 6112157, 506524 6112157, 506524 6112157, 506524 6112157, 506525 6112157, 506525 6112157, 506525 6112157, 506525 6112156, 506525 6112156, 506525 6112156]]]

7. RAD-CLA-POM-54038 (Mažasis erelis rėksnys)

Radavietės / augavietės kodas	RAD-CLA-POM-54038
Pavadinimas	Mažasis erelis rėksnys
Lot. pavadinimas	*Clanga pomarina*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Paukščių direktyva (I), Lietuvos raudonosios knygos sąrašas (1992) (3(R)), Lietuvos TSR raudonosios knygos sąrašas (1984), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (3(R)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-05	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²
2.	2023-07-17	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[509765 6116786, 509765 6116786, 509765 6116786, 509765 6116787, 509765 6116787, 509765 6116787, 509766 6116787, 509766 6116787, 509766 6116787, 509766 6116787, 509766 6116787, 509767 6116787, 509767 6116787, 509767 6116787, 509767 6116786, 509767 6116786, 509767 6116786, 509767 6116786, 509767 6116786, 509767 6116785, 509767 6116785, 509767 6116785, 509766 6116785, 509766 6116785, 509766 6116785, 509766 6116785, 509765 6116785, 509765 6116785, 509765 6116785, 509765 6116786, 509765 6116786, 509765 6116786]]]

8. RAD-CLA-POM-186292 (Mažasis erelis rėksnys)

Radavietės / augavietės kodas	RAD-CLA-POM-186292
Pavadinimas	Mažasis erelis rėksnys
Lot. pavadinimas	*Clanga pomarina*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Paukščių direktyva (I), Lietuvos raudonosios knygos sąrašas (1992) (3(R)), Lietuvos TSR raudonosios knygos sąrašas (1984), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (3(R)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-05	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

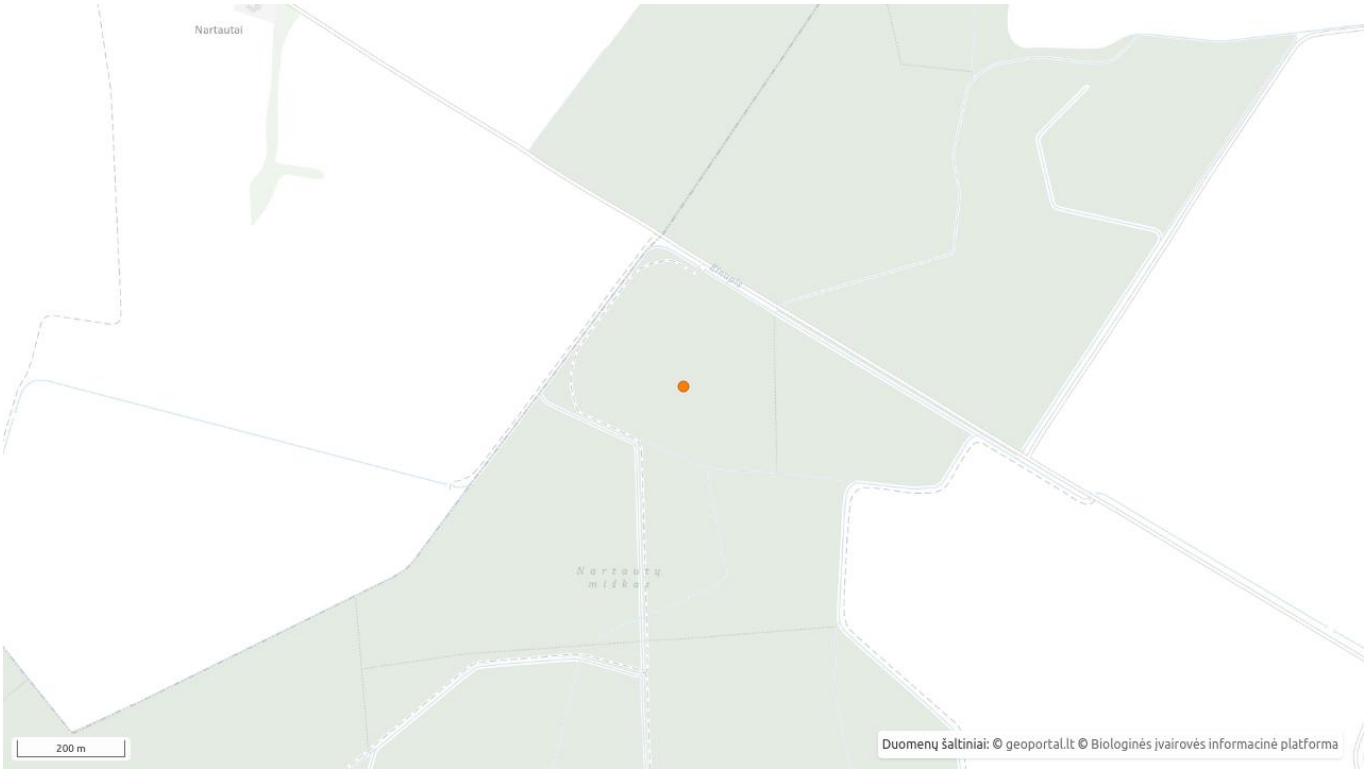
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512808 6118754, 512808 6118754, 512808 6118754, 512808 6118753, 512808 6118753, 512808 6118753, 512807 6118753, 512807 6118753, 512807 6118753, 512807 6118753, 512807 6118753, 512806 6118753, 512806 6118753, 512806 6118753, 512806 6118754, 512806 6118754, 512806 6118754, 512806 6118754, 512806 6118754, 512806 6118755, 512806 6118755, 512806 6118755, 512807 6118755, 512807 6118755, 512807 6118755, 512807 6118755, 512807 6118755, 512808 6118755, 512808 6118755, 512808 6118755, 512808 6118754, 512808 6118754, 512808 6118754]]]

9. RAD-CLA-POM-186293 (Mažasis erelis rėksnys)

Radavietės / augavietės kodas	RAD-CLA-POM-186293
Pavadinimas	Mažasis erelis rėksnys
Lot. pavadinimas	*Clanga pomarina*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Paukščių direktyva (I), Lietuvos raudonosios knygos sąrašas (1992) (3(R)), Lietuvos TSR raudonosios knygos sąrašas (1984), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (3(R)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-05	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[509373 6118869, 509373 6118869, 509373 6118869, 509373 6118868, 509373 6118868, 509373 6118868, 509372 6118868, 509372 6118868, 509372 6118868, 509372 6118868, 509371 6118868, 509371 6118868, 509371 6118868, 509371 6118869, 509371 6118869, 509371 6118869, 509371 6118869, 509371 6118869, 509371 6118870, 509371 6118870, 509371 6118870, 509372 6118870, 509372 6118870, 509372 6118870, 509372 6118870, 509372 6118870, 509373 6118870, 509373 6118870, 509373 6118870, 509373 6118869, 509373 6118869, 509373 6118869]]]

10. RAD-BUT-BUT-186594 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186594
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-03	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513924 6120099, 513924 6120099, 513924 6120099, 513924 6120098, 513924 6120098, 513924 6120098, 513923 6120098, 513923 6120098, 513923 6120098, 513923 6120098, 513923 6120098, 513923 6120098, 513922 6120098, 513922 6120098, 513922 6120098, 513922 6120099, 513922 6120099, 513922 6120099, 513922 6120099, 513922 6120099, 513922 6120100, 513922 6120100, 513922 6120100, 513923 6120100, 513923 6120100, 513923 6120100, 513923 6120100, 513923 6120100, 513924 6120100, 513924 6120100, 513924 6120100, 513924 6120099, 513924 6120099, 513924 6120099]]]

11. RAD-NEN-186606 (Nenustatyta rūšis)

Radavietės / augavietės kodas	RAD-NEN-186606
Pavadinimas	Nenustatyta rūšis
Lot. pavadinimas	*Nenustatyta rūšis*
Įtraukta į sąrašus	-
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-03	0	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

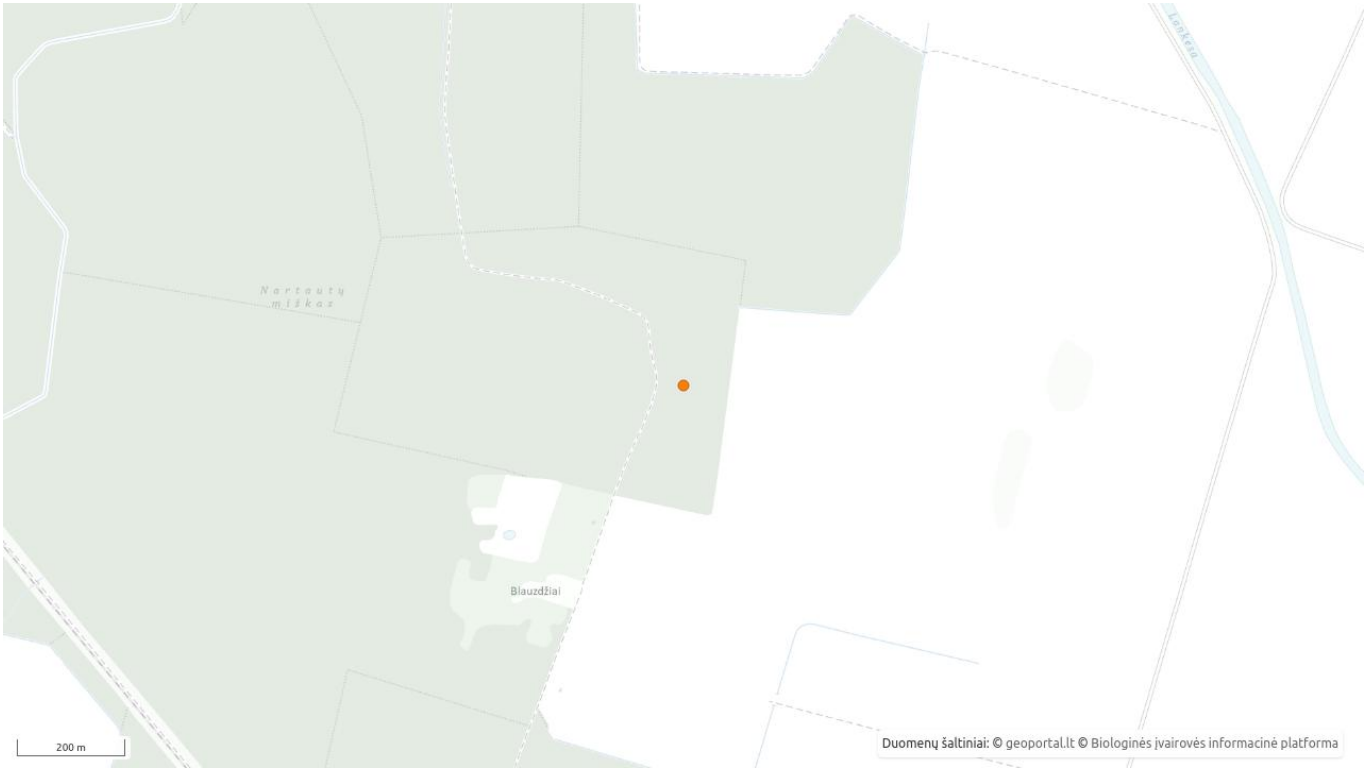
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513043 6118329, 513043 6118329, 513043 6118329, 513043 6118328, 513043 6118328, 513043 6118328, 513042 6118328, 513042 6118328, 513042 6118328, 513042 6118328, 513042 6118328, 513041 6118328, 513041 6118328, 513041 6118328, 513041 6118328, 513041 6118329, 513041 6118329, 513041 6118329, 513041 6118329, 513041 6118329, 513041 6118330, 513041 6118330, 513041 6118330, 513042 6118330, 513042 6118330, 513042 6118330, 513042 6118330, 513042 6118330, 513043 6118330, 513043 6118330, 513043 6118330, 513043 6118329, 513043 6118329, 513043 6118329]]]

12. RAD-NEN-186620 (Nenustatyta rūšis)

Radavietės / augavietės kodas	RAD-NEN-186620
Pavadinimas	Nenustatyta rūšis
Lot. pavadinimas	*Nenustatyta rūšis*
Įtraukta į sąrašus	-
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-07-03	0	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[509756 6116901, 509756 6116901, 509756 6116900, 509756 6116900, 509756 6116900, 509755 6116900, 509755 6116900, 509755 6116900, 509755 6116900, 509754 6116900, 509754 6116900, 509754 6116900, 509754 6116901, 509754 6116901, 509754 6116901, 509754 6116901, 509754 6116901, 509754 6116902, 509754 6116902, 509754 6116902, 509755 6116902, 509755 6116902, 509755 6116902, 509755 6116902, 509756 6116902, 509756 6116902, 509756 6116902, 509756 6116901, 509756 6116901, 509756 6116901]]]

13. RAD-NEN-186607 (Nenustatyta rūšis)

Radavietės / augavietės kodas	RAD-NEN-186607
Pavadinimas	Nenustatyta rūšis
Lot. pavadinimas	*Nenustatyta rūšis*
Įtraukta į sąrašus	-
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-29	0	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

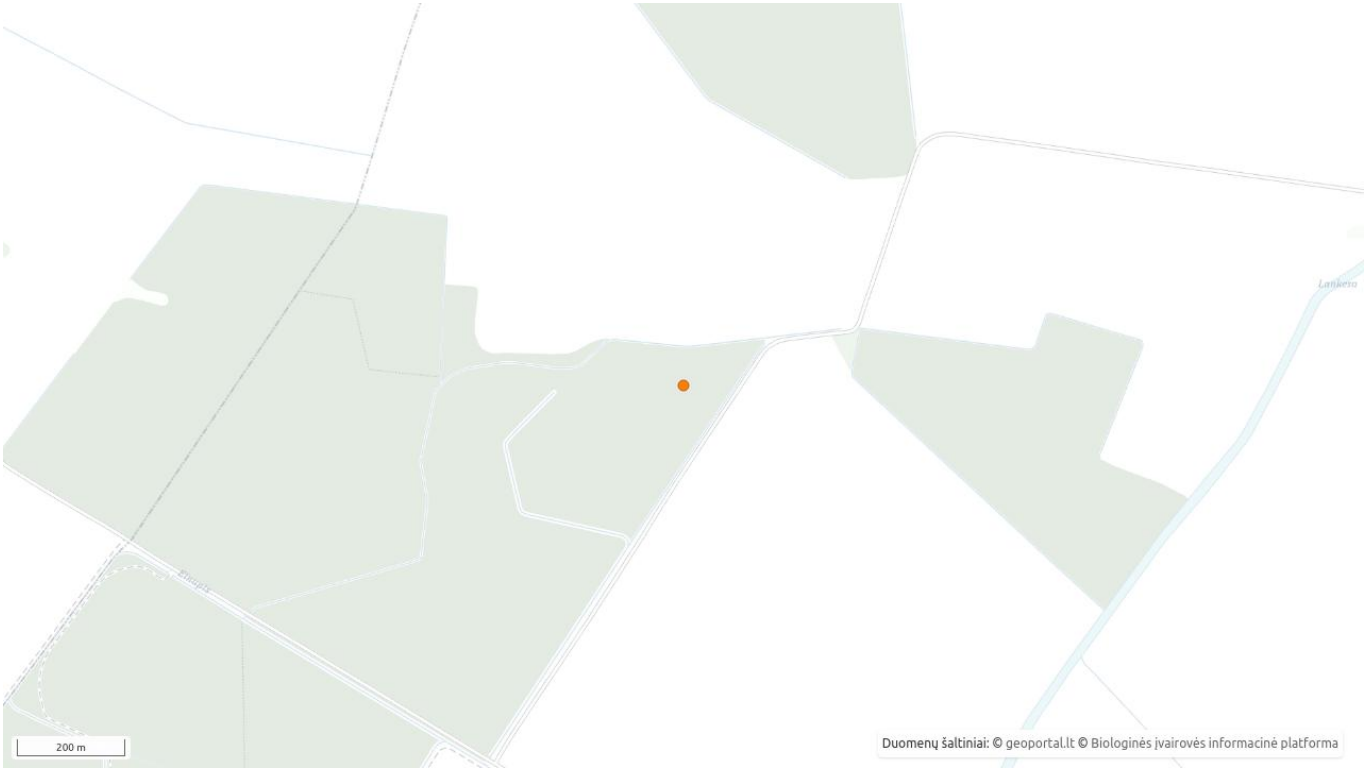
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513512 6118788, 513512 6118788, 513512 6118788, 513512 6118787, 513512 6118787, 513512 6118787, 513511 6118787, 513511 6118787, 513511 6118787, 513511 6118787, 513511 6118787, 513510 6118787, 513510 6118787, 513510 6118787, 513510 6118788, 513510 6118788, 513510 6118788, 513510 6118788, 513510 6118788, 513510 6118789, 513510 6118789, 513510 6118789, 513511 6118789, 513511 6118789, 513511 6118789, 513511 6118789, 513511 6118789, 513512 6118789, 513512 6118789, 513512 6118789, 513512 6118788, 513512 6118788, 513512 6118788]]]

14. RAD-NEN-186610 (Nenustatyta rūšis)

Radavietės / augavietės kodas	RAD-NEN-186610
Pavadinimas	Nenustatyta rūšis
Lot. pavadinimas	*Nenustatyta rūšis*
Įtraukta į sąrašus	-
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-29	0	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

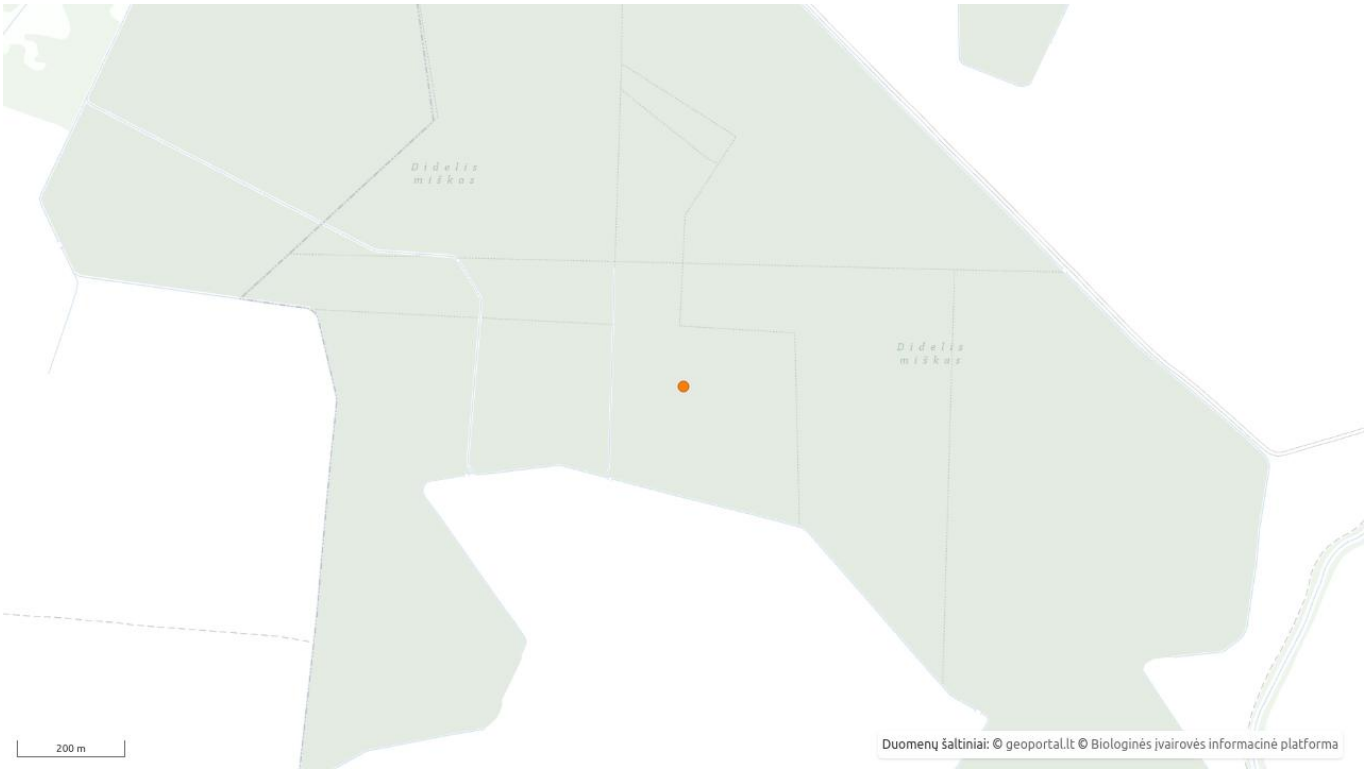
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[510351 6119433, 510351 6119433, 510351 6119433, 510351 6119432, 510351 6119432, 510351 6119432, 510350 6119432, 510350 6119432, 510350 6119432, 510350 6119432, 510350 6119432, 510349 6119432, 510349 6119432, 510349 6119432, 510349 6119433, 510349 6119433, 510349 6119433, 510349 6119433, 510349 6119433, 510349 6119434, 510349 6119434, 510349 6119434, 510350 6119434, 510350 6119434, 510350 6119434, 510350 6119434, 510350 6119434, 510351 6119434, 510351 6119434, 510351 6119434, 510351 6119433, 510351 6119433, 510351 6119433]]]

15. RAD-NEN-186615 (Nenustatyta rūšis)

Radavietės / augavietės kodas	RAD-NEN-186615
Pavadinimas	Nenustatyta rūšis
Lot. pavadinimas	*Nenustatyta rūšis*
Įtraukta į sąrašus	-
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-29	0	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[510726 6121462, 510726 6121462, 510726 6121462, 510726 6121461, 510726 6121461, 510726 6121461, 510725 6121461, 510725 6121461, 510725 6121461, 510725 6121461, 510725 6121461, 510725 6121461, 510724 6121461, 510724 6121461, 510724 6121461, 510724 6121462, 510724 6121462, 510724 6121462, 510724 6121462, 510724 6121462, 510724 6121463, 510724 6121463, 510724 6121463, 510725 6121463, 510725 6121463, 510725 6121463, 510725 6121463, 510726 6121463, 510726 6121463, 510726 6121463, 510726 6121462, 510726 6121462, 510726 6121462]]]

16. RAD-NEN-186616 (Nenustatyta rūšis)

Radavietės / augavietės kodas	RAD-NEN-186616
Pavadinimas	Nenustatyta rūšis
Lot. pavadinimas	*Nenustatyta rūšis*
Įtraukta į sąrašus	-
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-29	0	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[509569 6119669, 509569 6119669, 509569 6119669, 509569 6119668, 509569 6119668, 509569 6119668, 509568 6119668, 509568 6119668, 509568 6119668, 509568 6119668, 509567 6119668, 509567 6119668, 509567 6119668, 509567 6119669, 509567 6119669, 509567 6119669, 509567 6119669, 509567 6119669, 509567 6119670, 509567 6119670, 509567 6119670, 509568 6119670, 509568 6119670, 509568 6119670, 509568 6119670, 509569 6119670, 509569 6119670, 509569 6119670, 509569 6119669, 509569 6119669, 509569 6119669]]]

17. RAD-NEN-186648 (Nenustatyta rūšis)

Radavietės / augavietės kodas	RAD-NEN-186648
Pavadinimas	Nenustatyta rūšis
Lot. pavadinimas	*Nenustatyta rūšis*
Įtraukta į sąrašus	-
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-28	0	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

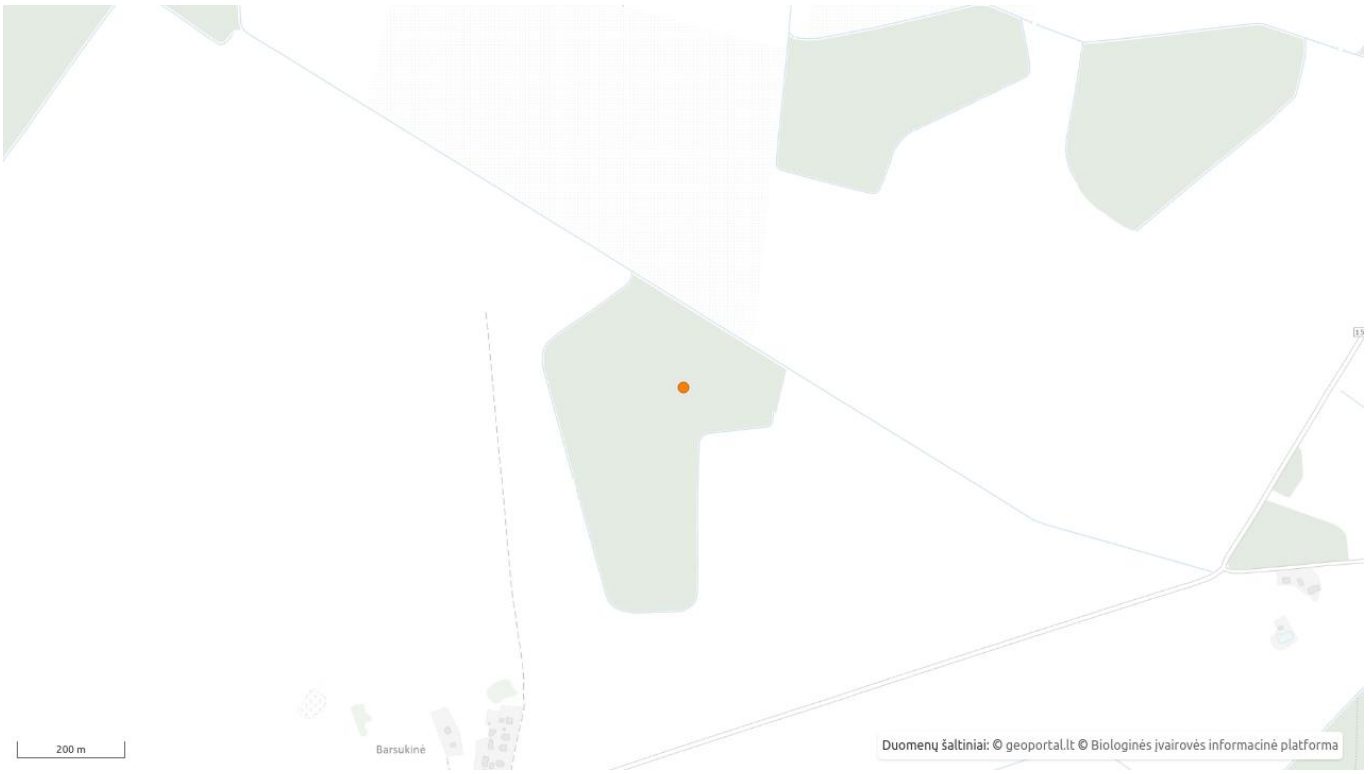
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[515802 6117378, 515802 6117378, 515802 6117378, 515802 6117377, 515802 6117377, 515802 6117377, 515801 6117377, 515801 6117377, 515801 6117377, 515801 6117377, 515801 6117377, 515800 6117377, 515800 6117377, 515800 6117377, 515800 6117378, 515800 6117378, 515800 6117378, 515800 6117378, 515800 6117378, 515800 6117378, 515800 6117379, 515800 6117379, 515800 6117379, 515801 6117379, 515801 6117379, 515801 6117379, 515801 6117379, 515801 6117379, 515801 6117379, 515802 6117379, 515802 6117379, 515802 6117379, 515802 6117378, 515802 6117378, 515802 6117378]]]

18. RAD-BUT-BUT-186273 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186273
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-23	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

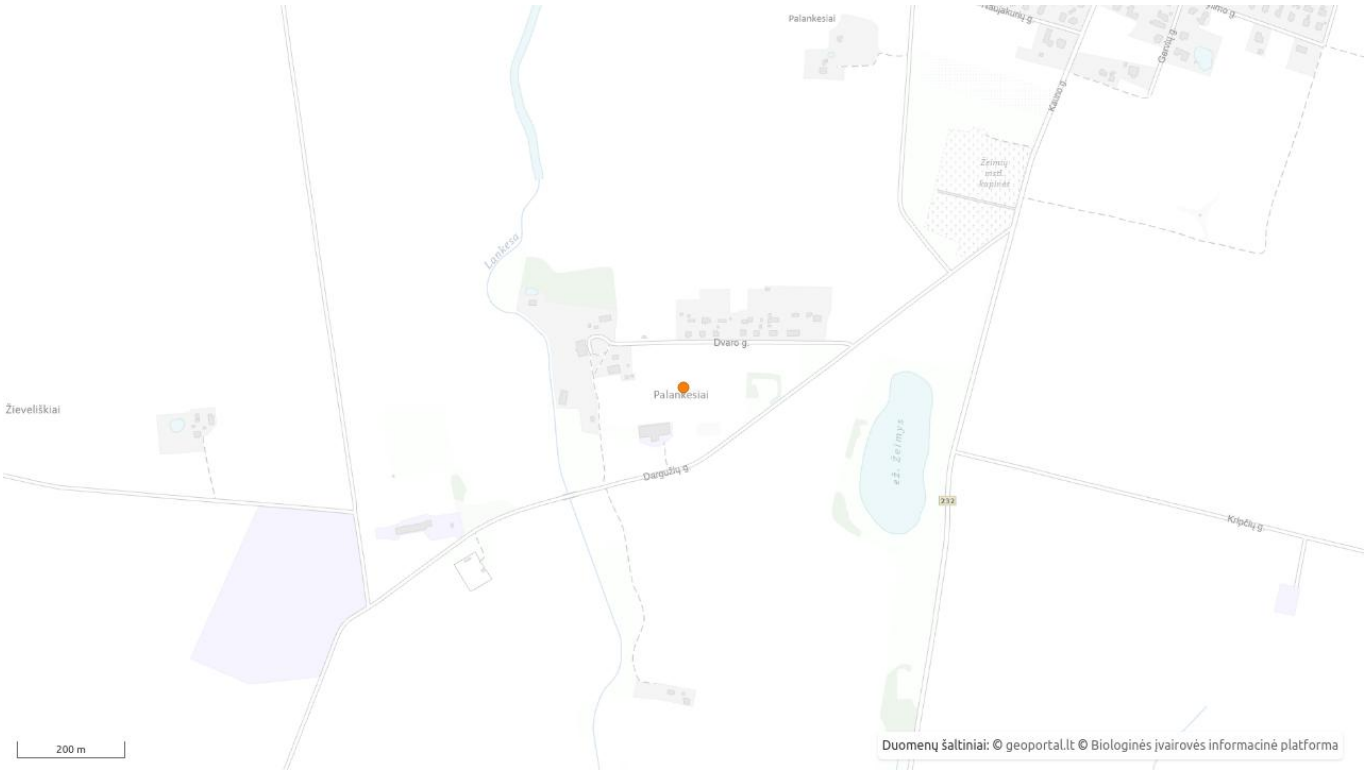
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[505180 6113625, 505180 6113625, 505180 6113625, 505180 6113624, 505180 6113624, 505180 6113624, 505179 6113624, 505179 6113624, 505179 6113624, 505179 6113624, 505179 6113624, 505178 6113624, 505178 6113624, 505178 6113624, 505178 6113624, 505178 6113625, 505178 6113625, 505178 6113625, 505178 6113625, 505178 6113625, 505178 6113626, 505178 6113626, 505178 6113626, 505179 6113626, 505179 6113626, 505179 6113626, 505179 6113626, 505179 6113626, 505180 6113626, 505180 6113626, 505180 6113626, 505180 6113625, 505180 6113625, 505180 6113625]]]

19. RAD-CIC-CIC-187322 (Baltasis gandras)

Radavietės / augavietės kodas	RAD-CIC-CIC-187322
Pavadinimas	Baltasis gandras
Lot. pavadinimas	*Ciconia ciconia*
Įtraukta į sąrašus	AEWA susitarimas (III), Paukščių direktyva (I), Bonos konvencija (II), Berno konvencija (II)
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-23	4	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512964 6114741, 512964 6114741, 512964 6114741, 512964 6114741, 512963 6114741, 512963 6114740, 512963 6114740, 512963 6114740, 512963 6114740, 512963 6114740, 512962 6114740, 512962 6114740, 512962 6114741, 512962 6114741, 512962 6114741, 512962 6114741, 512962 6114741, 512962 6114741, 512962 6114742, 512962 6114742, 512962 6114742, 512962 6114742, 512962 6114742, 512963 6114742, 512963 6114742, 512963 6114742, 512963 6114742, 512963 6114742, 512963 6114742, 512964 6114742, 512964 6114742, 512964 6114741, 512964 6114741]]]

20. RAD-BUT-BUT-186270 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186270
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-22	1	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

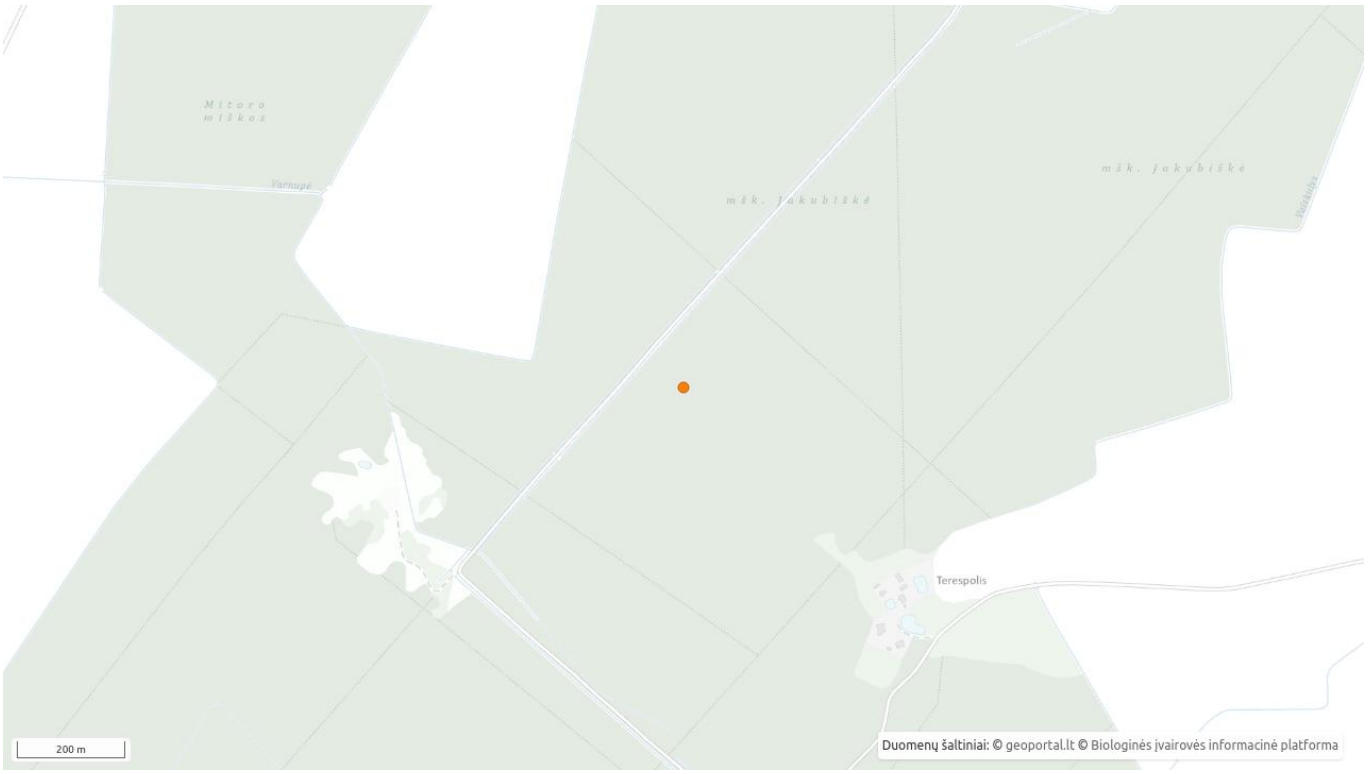
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[505074 6113715, 505074 6113715, 505074 6113715, 505074 6113714, 505074 6113714, 505074 6113714, 505073 6113714, 505073 6113714, 505073 6113714, 505073 6113714, 505073 6113714, 505072 6113714, 505072 6113714, 505072 6113714, 505072 6113714, 505072 6113715, 505072 6113715, 505072 6113715, 505072 6113715, 505072 6113715, 505072 6113716, 505072 6113716, 505072 6113716, 505073 6113716, 505073 6113716, 505073 6113716, 505073 6113716, 505073 6113716, 505073 6113716, 505074 6113716, 505074 6113716, 505074 6113716, 505074 6113715, 505074 6113715, 505074 6113715]]]

21. RAD-BUT-BUT-186322 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186322
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-22	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

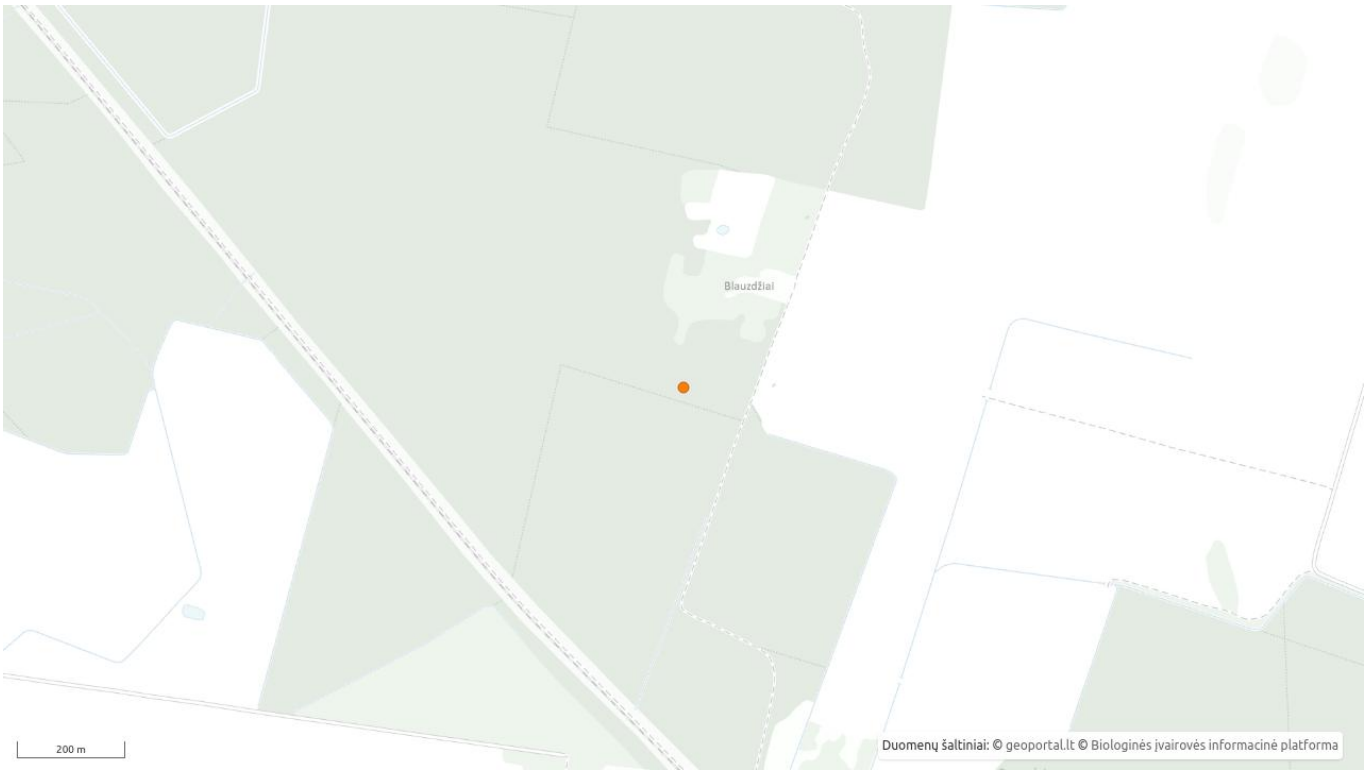
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[504647 6110416, 504647 6110416, 504647 6110416, 504647 6110415, 504647 6110415, 504647 6110415, 504646 6110415, 504646 6110415, 504646 6110415, 504646 6110415, 504646 6110415, 504645 6110415, 504645 6110415, 504645 6110415, 504645 6110416, 504645 6110416, 504645 6110416, 504645 6110416, 504645 6110416, 504645 6110417, 504645 6110417, 504645 6110417, 504646 6110417, 504646 6110417, 504646 6110417, 504646 6110417, 504646 6110417, 504647 6110417, 504647 6110417, 504647 6110417, 504647 6110416, 504647 6110416, 504647 6110416]]]

22. RAD-BUT-BUT-186258 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186258
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-20	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

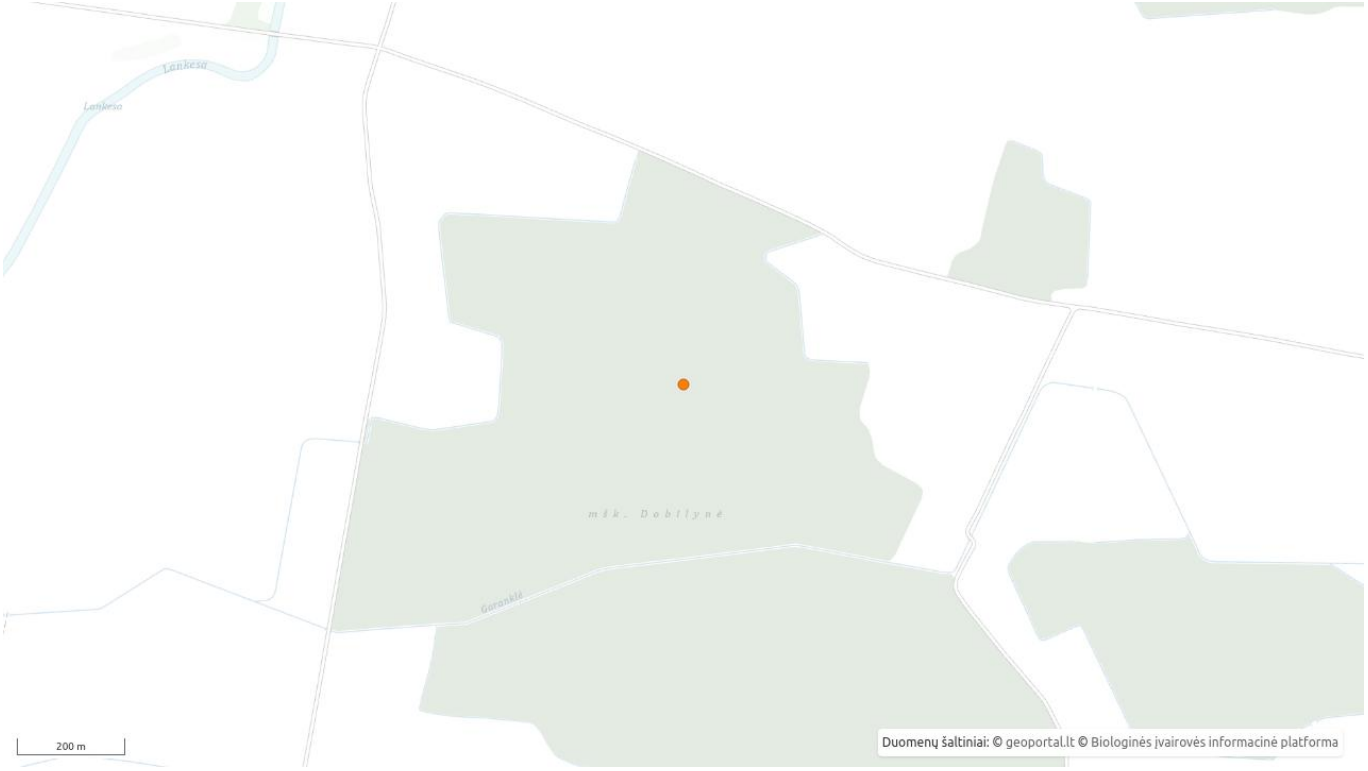
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[509364 6116336, 509364 6116336, 509364 6116336, 509364 6116335, 509364 6116335, 509364 6116335, 509363 6116335, 509363 6116335, 509363 6116335, 509363 6116335, 509363 6116335, 509362 6116335, 509362 6116335, 509362 6116335, 509362 6116336, 509362 6116336, 509362 6116336, 509362 6116336, 509362 6116336, 509362 6116337, 509362 6116337, 509362 6116337, 509363 6116337, 509363 6116337, 509363 6116337, 509363 6116337, 509363 6116337, 509364 6116337, 509364 6116337, 509364 6116337, 509364 6116336, 509364 6116336, 509364 6116336]]]

23. RAD-BUT-BUT-186269 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186269
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-20	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

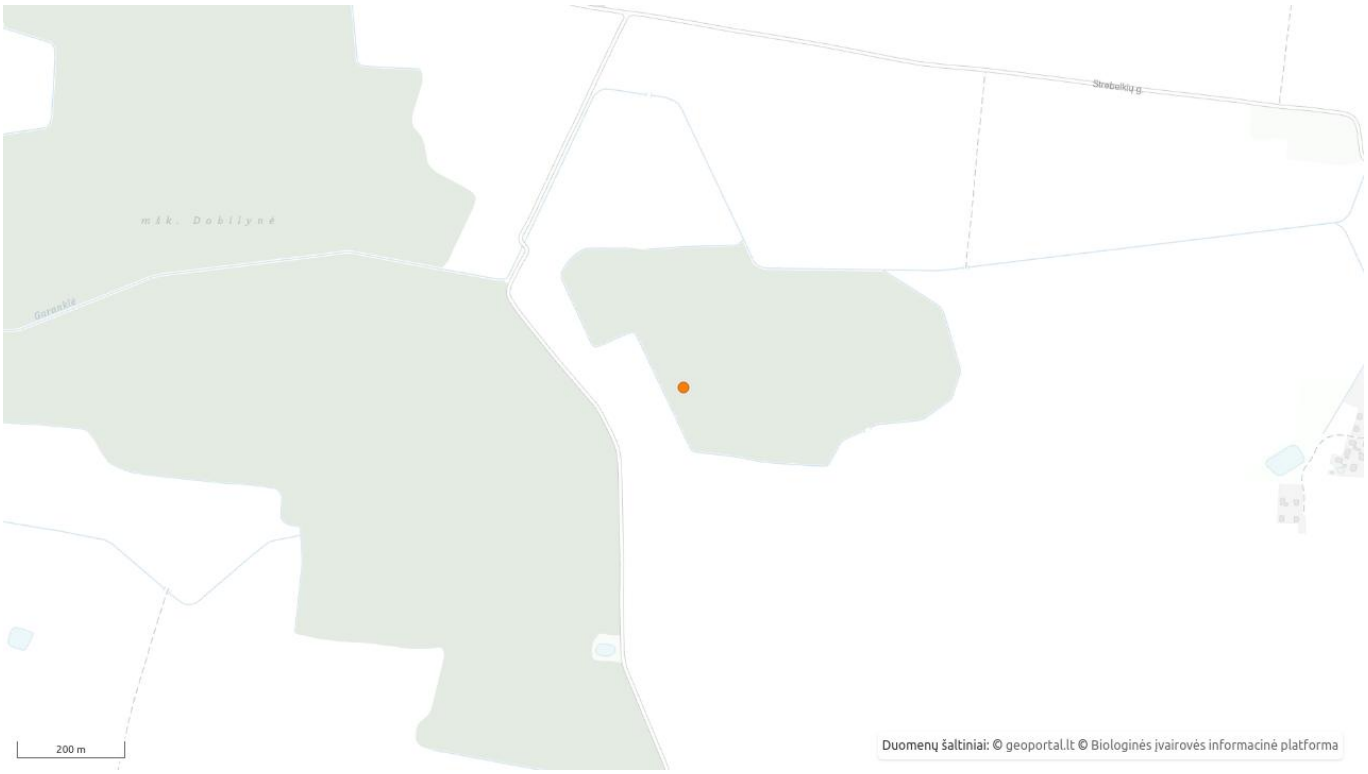
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512622 6119107, 512622 6119107, 512622 6119107, 512622 6119106, 512622 6119106, 512622 6119106, 512621 6119106, 512621 6119106, 512621 6119106, 512621 6119106, 512621 6119106, 512620 6119106, 512620 6119106, 512620 6119106, 512620 6119107, 512620 6119107, 512620 6119107, 512620 6119107, 512620 6119107, 512620 6119108, 512620 6119108, 512620 6119108, 512621 6119108, 512621 6119108, 512621 6119108, 512621 6119108, 512621 6119108, 512621 6119108, 512622 6119108, 512622 6119108, 512622 6119108, 512622 6119107, 512622 6119107, 512622 6119107]]]

24. RAD-BUT-BUT-186345 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186345
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-20	2	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513444 6118561, 513444 6118561, 513444 6118561, 513444 6118560, 513444 6118560, 513444 6118560, 513443 6118560, 513443 6118560, 513443 6118560, 513443 6118560, 513443 6118560, 513442 6118560, 513442 6118560, 513442 6118560, 513442 6118560, 513442 6118561, 513442 6118561, 513442 6118561, 513442 6118561, 513442 6118561, 513442 6118562, 513442 6118562, 513442 6118562, 513443 6118562, 513443 6118562, 513443 6118562, 513443 6118562, 513443 6118562, 513444 6118562, 513444 6118562, 513444 6118562, 513444 6118561, 513444 6118561, 513444 6118561]]]

25. RAD-BUT-BUT-186350 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-186350
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-06-20	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

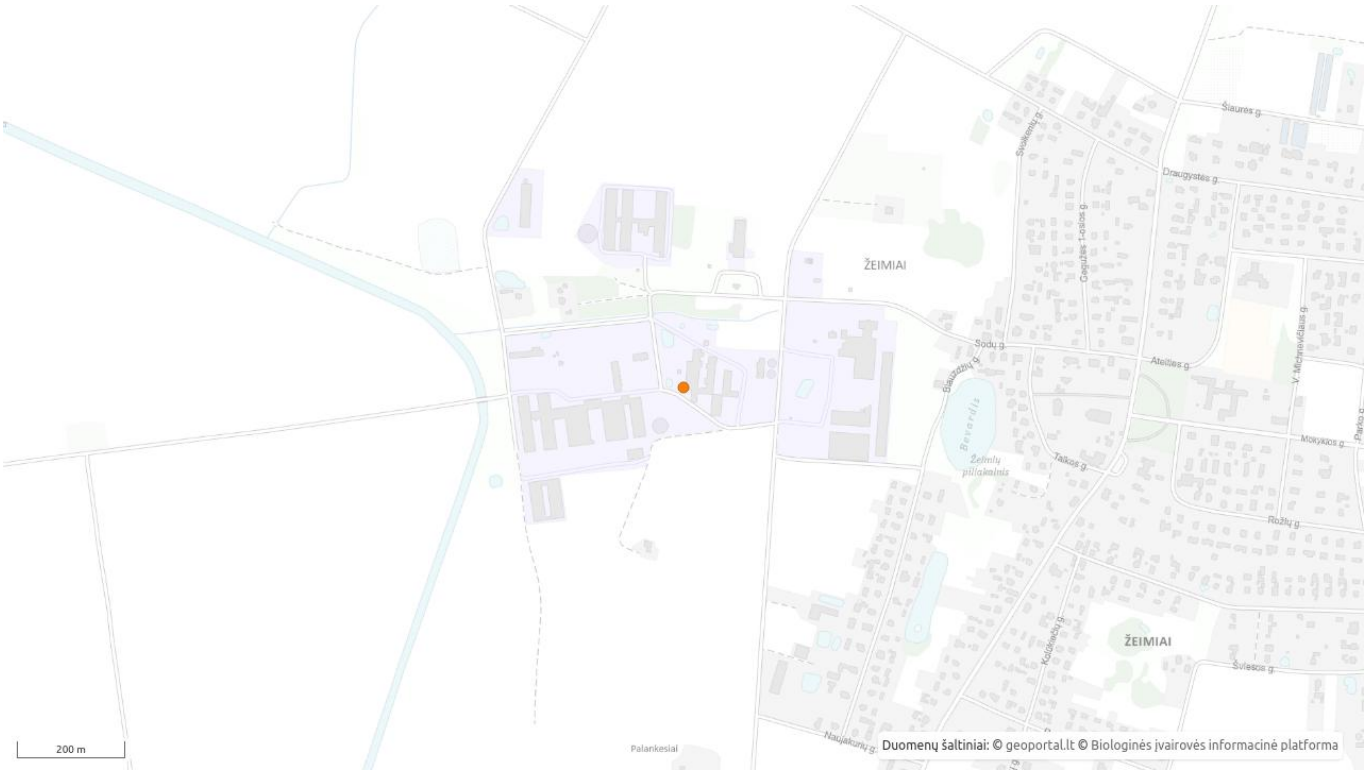
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[505393 6114197, 505393 6114197, 505393 6114197, 505393 6114196, 505393 6114196, 505393 6114196, 505392 6114196, 505392 6114196, 505392 6114196, 505392 6114196, 505392 6114196, 505391 6114196, 505391 6114196, 505391 6114196, 505391 6114197, 505391 6114197, 505391 6114197, 505391 6114197, 505391 6114197, 505391 6114198, 505391 6114198, 505391 6114198, 505392 6114198, 505392 6114198, 505392 6114198, 505392 6114198, 505392 6114198, 505393 6114198, 505393 6114198, 505393 6114198, 505393 6114197, 505393 6114197, 505393 6114197]]]

26. RAD-CIC-CIC-187307 (Baltasis gandras)

Radavietės / augavietės kodas	RAD-CIC-CIC-187307
Pavadinimas	Baltasis gandras
Lot. pavadinimas	*Ciconia ciconia*
Įtraukta į sąrašus	AEWA susitarimas (III), Paukščių direktyva (I), Bonos konvencija (II), Berno konvencija (II)
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-04-28	3	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513254 6116085, 513254 6116084, 513254 6116084, 513254 6116084, 513254 6116084, 513253 6116084, 513253 6116084, 513253 6116084, 513253 6116084, 513253 6116084, 513252 6116084, 513252 6116084, 513252 6116084, 513252 6116084, 513252 6116084, 513252 6116084, 513252 6116084, 513252 6116085, 513252 6116085, 513252 6116085, 513252 6116085, 513252 6116085, 513252 6116085, 513252 6116086, 513253 6116086, 513253 6116086, 513253 6116086, 513253 6116086, 513253 6116085, 513254 6116085, 513254 6116085, 513254 6116085, 513254 6116085, 513254 6116085]]]

27. RAD-COR-FRU-187315 (Kovas)

Radavietės / augavietės kodas	RAD-COR-FRU-187315
Pavadinimas	Kovas
Lot. pavadinimas	*Corvus frugilegus*
Įtraukta į sąrašus	Paukščių direktyva (II/2)
Plotas	1632.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-04-28	134	Lizdas, ola ir pan	Suaugęs individas	1662.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513671 6116147, 513661 6116151, 513652 6116128, 513649 6116105, 513640 6116065, 513655 6116058, 513667 6116079, 513668 6116112, 513671 6116147]]]

28. RAD-COR-FRU-187316 (Kovas)

Radavietės / augavietės kodas	RAD-COR-FRU-187316
Pavadinimas	Kovas
Lot. pavadinimas	*Corvus frugilegus*
Įtraukta į sąrašus	Paukščių direktyva (II/2)
Plotas	2322.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-04-28	300	Lizdas, ola ir pan	Suaugęs individas	1744.00 m²
2.	2024-04-28	20	Lizdas, ola ir pan	Suaugęs individas	238.00 m²
3.	2024-04-28	160	Lizdas, ola ir pan	Suaugęs individas	343.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513188 6116246, 513188 6116246, 513188 6116231, 513188 6116231, 513188 6116231, 513188 6116230, 513180 6116217, 513180 6116217, 513180 6116217, 513179 6116217, 513179 6116217, 513179 6116217, 513156 6116217, 513156 6116217, 513156 6116217, 513155 6116217, 513155 6116217, 513155 6116217, 513155 6116218, 513155 6116218, 513152 6116235, 513152 6116235, 513152 6116235, 513152 6116235, 513160 6116251, 513160 6116252, 513160 6116252, 513161 6116252, 513161 6116252, 513161 6116252, 513184 6116254, 513184 6116254, 513184 6116254, 513185 6116254, 513185 6116254, 513185 6116254, 513185 6116253, 513188 6116246, 513188 6116246], [513154 6116235, 513157 6116219, 513178 6116219, 513186 6116231, 513186 6116246, 513183 6116252, 513162 6116250, 513154 6116235]], [[513256 6116228, 513256 6116228, 513256 6116228, 513255 6116228, 513255 6116228, 513255 6116228, 513197 6116226, 513196 6116226, 513196 6116227, 513196 6116227, 513196 6116227, 513196 6116227, 513196 6116227, 513196 6116227, 513193 6116245, 513193 6116245, 513193 6116245, 513193 6116245, 513193 6116245, 513201 6116255, 513201 6116256, 513201 6116256, 513201 6116256, 513202 6116256, 513227 6116257, 513227 6116257, 513259 6116256, 513259 6116256, 513259 6116256, 513259 6116256, 513259 6116255, 513259 6116255, 513259 6116255, 513259 6116255, 513259 6116255, 513260 6116255, 513260 6116255, 513260 6116254, 513260 6116254, 513260 6116254, 513256 6116228, 513256 6116228, 513256 6116228, 513256 6116228], [513202 6116254, 513195 6116245, 513198 6116228, 513254 6116230, 513258 6116254, 513227 6116255, 513202 6116254]], [[513365 6116218, 513351 6116211, 513350 6116195, 513330 6116196, 513309 6116202, 513309 6116224, 513313 6116236, 513331 6116225, 513335 6116236, 513352 6116237, 513365 6116227, 513365 6116218]]]

29. RAD-COR-FRU-187317 (Kovas)

Radavietės / augavietės kodas	RAD-COR-FRU-187317
Pavadinimas	Kovas
Lot. pavadinimas	*Corvus frugilegus*
Įtraukta į sąrašus	Paukščių direktyva (II/2)
Plotas	558.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-04-28	84	Lizdas, ola ir pan	Suaugęs individas	558.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):
Poligonas [[[513227 6116151, 513210 6116148, 513211 6116113, 513228 6116121, 513227 6116151]]]

30. RAD-CIC-CIC-187306 (Baltasis gandras)

Radavietės / augavietės kodas	RAD-CIC-CIC-187306
Pavadinimas	Baltasis gandras
Lot. pavadinimas	*Ciconia ciconia*
Įtraukta į sąrašus	AEWA susitarimas (III), Paukščių direktyva (I), Bonos konvencija (II), Berno konvencija (II)
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-04-18	2	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

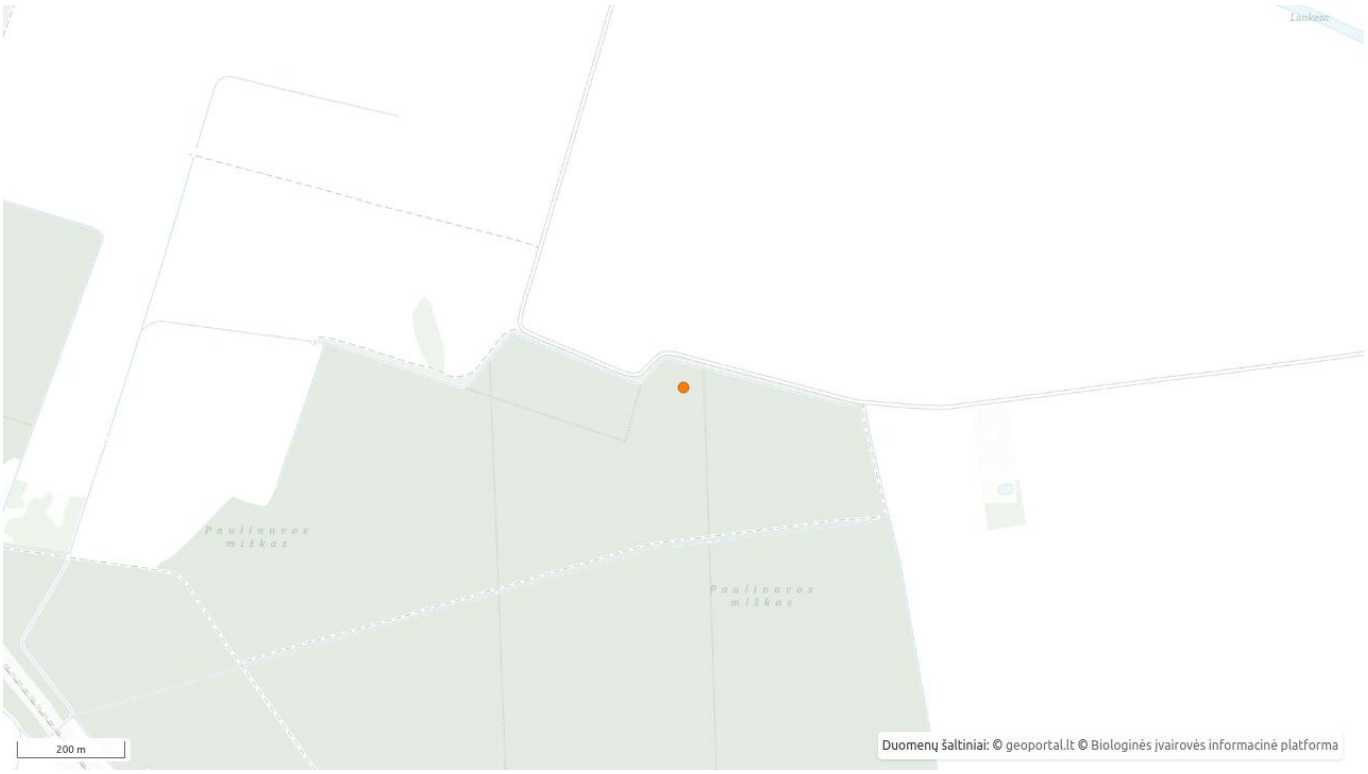
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[514706 6118400, 514706 6118400, 514706 6118400, 514706 6118400, 514706 6118400, 514706 6118399, 514705 6118399, 514705 6118399, 514705 6118399, 514705 6118399, 514705 6118399, 514704 6118399, 514704 6118400, 514704 6118400, 514704 6118400, 514704 6118400, 514704 6118400, 514704 6118400, 514704 6118401, 514704 6118401, 514704 6118401, 514704 6118401, 514705 6118401, 514705 6118401, 514705 6118401, 514705 6118401, 514705 6118401, 514706 6118401, 514706 6118401, 514706 6118401, 514706 6118401, 514706 6118400, 514706 6118400]]]

31. RAD-BUT-BUT-185819 (Paprastasis suopis)

Radavietės / augavietės kodas	RAD-BUT-BUT-185819
Pavadinimas	Paprastasis suopis
Lot. pavadinimas	*Buteo buteo*
Įtraukta į sąrašus	Bonos konvencija (II), Prekybos reglamentas (A), CITES konvencija (II), Berno konvencija (II)
Plotas	2.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2024-03-28	2	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[510823 6115890, 510823 6115890, 510823 6115890, 510823 6115890, 510823 6115890, 510823 6115890, 510823 6115890, 510822 6115890, 510822 6115889, 510822 6115890, 510822 6115890, 510822 6115890, 510822 6115890, 510821 6115890, 510821 6115890, 510821 6115890, 510821 6115890, 510821 6115891, 510821 6115891, 510821 6115891, 510822 6115891, 510822 6115891, 510822 6115891, 510822 6115891, 510822 6115891, 510822 6115891, 510822 6115891, 510823 6115891, 510823 6115891, 510823 6115891, 510823 6115891, 510823 6115891, 510823 6115891, 510823 6115890]]]

32. RAD-CLA-POM-54108 (Mažasis erelis rėksnys)

Radavietės / augavietės kodas	RAD-CLA-POM-54108
Pavadinimas	Mažasis erelis rėksnys
Lot. pavadinimas	*Clanga pomarina*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Paukščių direktyva (I), Lietuvos raudonosios knygos sąrašas (1992) (3(R)), Lietuvos TSR raudonosios knygos sąrašas (1984), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (3(R)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))
Plotas	4.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2023-07-19	2	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[503878 6114479, 503878 6114479, 503878 6114479, 503878 6114478, 503878 6114478, 503878 6114478, 503877 6114478, 503877 6114478, 503877 6114478, 503877 6114478, 503877 6114478, 503876 6114478, 503876 6114478, 503876 6114478, 503876 6114479, 503876 6114479, 503876 6114479, 503876 6114479, 503876 6114479, 503876 6114480, 503876 6114480, 503876 6114480, 503877 6114480, 503877 6114480, 503877 6114480, 503877 6114480, 503877 6114480, 503878 6114480, 503878 6114480, 503878 6114480, 503878 6114479, 503878 6114479, 503878 6114479]]]

33. RAD-CLA-POM-117 (Mažasis erelis rėksnys)

Radavietės / augavietės kodas	RAD-CLA-POM-117
Pavadinimas	Mažasis erelis rėksnys
Lot. pavadinimas	*Clanga pomarina*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Paukščių direktyva (I), Lietuvos raudonosios knygos sąrašas (1992) (3(R)), Lietuvos TSR raudonosios knygos sąrašas (1984), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (3(R)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2023-03-14	2	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

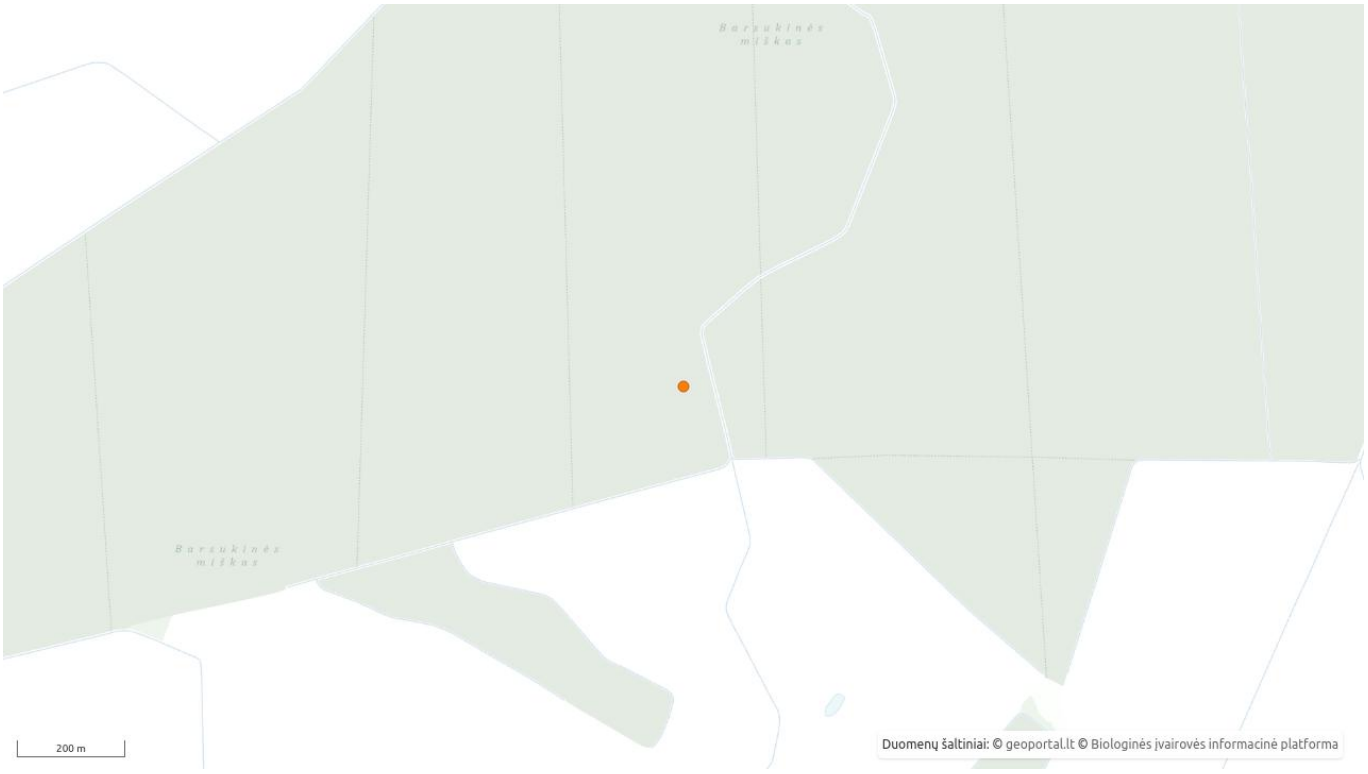
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[503878 6114479, 503877.98 6114478.8, 503877.92 6114478.62, 503877.83 6114478.44, 503877.71 6114478.29, 503877.56 6114478.17, 503877.38 6114478.08, 503877.2 6114478.02, 503877 6114478, 503876.8 6114478.02, 503876.62 6114478.08, 503876.44 6114478.17, 503876.29 6114478.29, 503876.17 6114478.44, 503876.08 6114478.62, 503876.02 6114478.8, 503876 6114479, 503876.02 6114479.2, 503876.08 6114479.38, 503876.17 6114479.56, 503876.29 6114479.71, 503876.44 6114479.83, 503876.62 6114479.92, 503876.8 6114479.98, 503877 6114480, 503877.2 6114479.98, 503877.38 6114479.92, 503877.56 6114479.83, 503877.71 6114479.71, 503877.83 6114479.56, 503877.92 6114479.38, 503877.98 6114479.2, 503878 6114479]]]

34. RAD-XYL-FRU-33405 (Kurapkinis storplutis)

Radavietės / augavietės kodas	RAD-XYL-FRU-33405
Pavadinimas	Kurapkinis storplutis
Lot. pavadinimas	*Xylobolus frustulatus*
Įtraukta į sąrašus	LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (3(R)), Lietuvos raudonosios knygos sąrašas (2021) (Grėsmingos būklės (EN))
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Vystymosi stadija	Plotas
1.	2014-10-26	1	Augantis grybas arba kerpė	3.00 m²

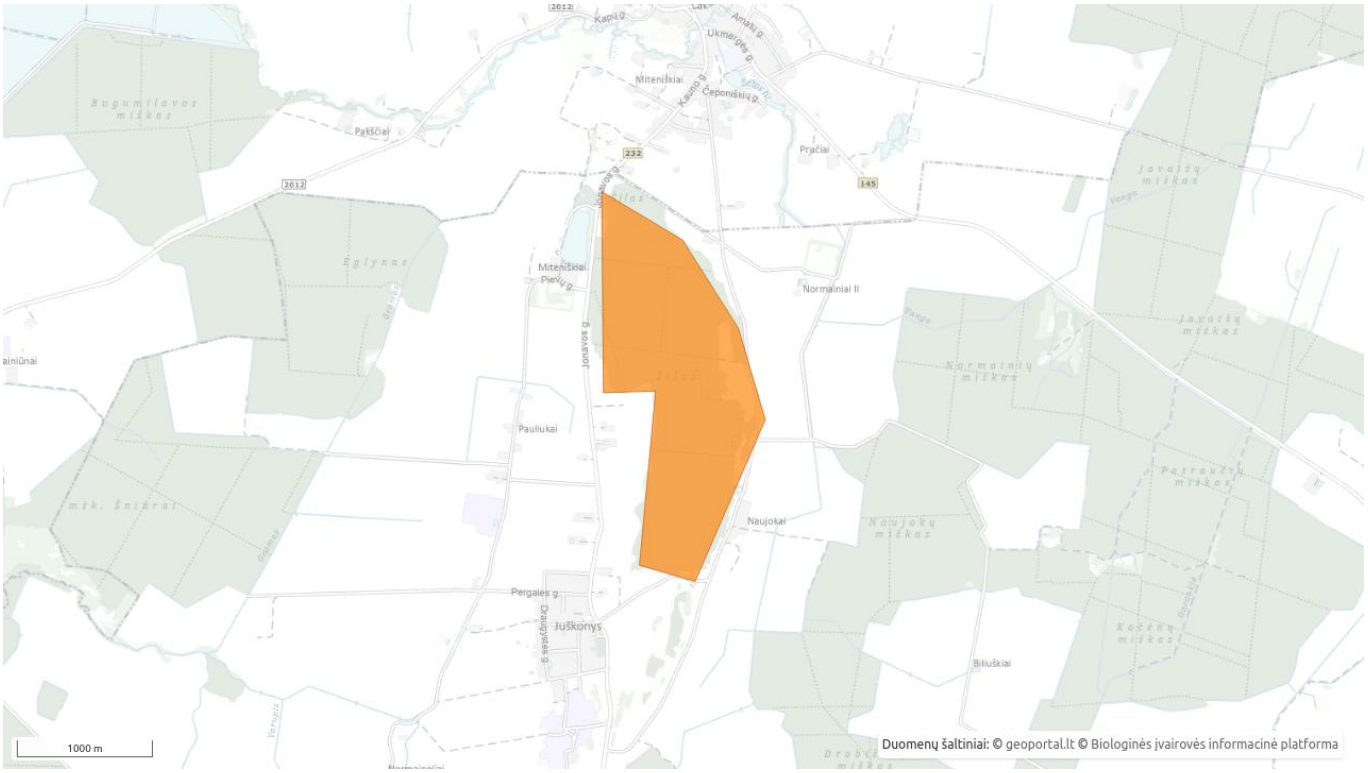
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[506989.17 6112374.84, 506989.15 6112374.65, 506989.09 6112374.46, 506989 6112374.29, 506988.87 6112374.14, 506988.72 6112374.01, 506988.55 6112373.92, 506988.36 6112373.86, 506988.17 6112373.84, 506987.97 6112373.86, 506987.78 6112373.92, 506987.61 6112374.01, 506987.46 6112374.14, 506987.34 6112374.29, 506987.24 6112374.46, 506987.19 6112374.65, 506987.17 6112374.84, 506987.19 6112375.04, 506987.24 6112375.23, 506987.34 6112375.4, 506987.46 6112375.55, 506987.61 6112375.68, 506987.78 6112375.77, 506987.97 6112375.82, 506988.17 6112375.84, 506988.36 6112375.82, 506988.55 6112375.77, 506988.72 6112375.68, 506988.87 6112375.55, 506989 6112375.4, 506989.09 6112375.23, 506989.15 6112375.04, 506989.17 6112374.84]]]

35. RAD-DEN-MED-3108 (Vidutinis genys)

Radavietės / augavietės kodas	RAD-DEN-MED-3108
Pavadinimas	Vidutinis genys
Lot. pavadinimas	*Leiopicus medius*
Įtraukta į sąrašus	Berno konvencija (II), Paukščių direktyva (I)
Plotas	2.00 km²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Plotas
1.	2014-04-20	6	Kiti buvimo požymiai (balsai ir kt.)	2.00 km²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[516384.5 6124901.61, 516582.94 6124226.92, 516067 6123036.29, 515656.89 6123155.36, 515775.96 6124438.59, 515392.31 6124425.36, 515379.08 6125907.03, 515974.39 6125549.84, 516384.5 6124901.61]]]

36. RAD-XES-RUF-43016 (Ąžuolinis skaptukas)

Radavietės / augavietės kodas	RAD-XES-RUF-43016
Pavadinimas	Ąžuolinis skaptukas
Lot. pavadinimas	*Xestobium rufovillosum*
Įtraukta į sąrašus	LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (4(I)), Lietuvos raudonosios knygos sąrašas (2021) (Arti grėsmės esantys (NT))
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Plotas
1.	2013-06-12	1	Kiti buvimo požymiai (balsai ir kt.)	3.00 m²

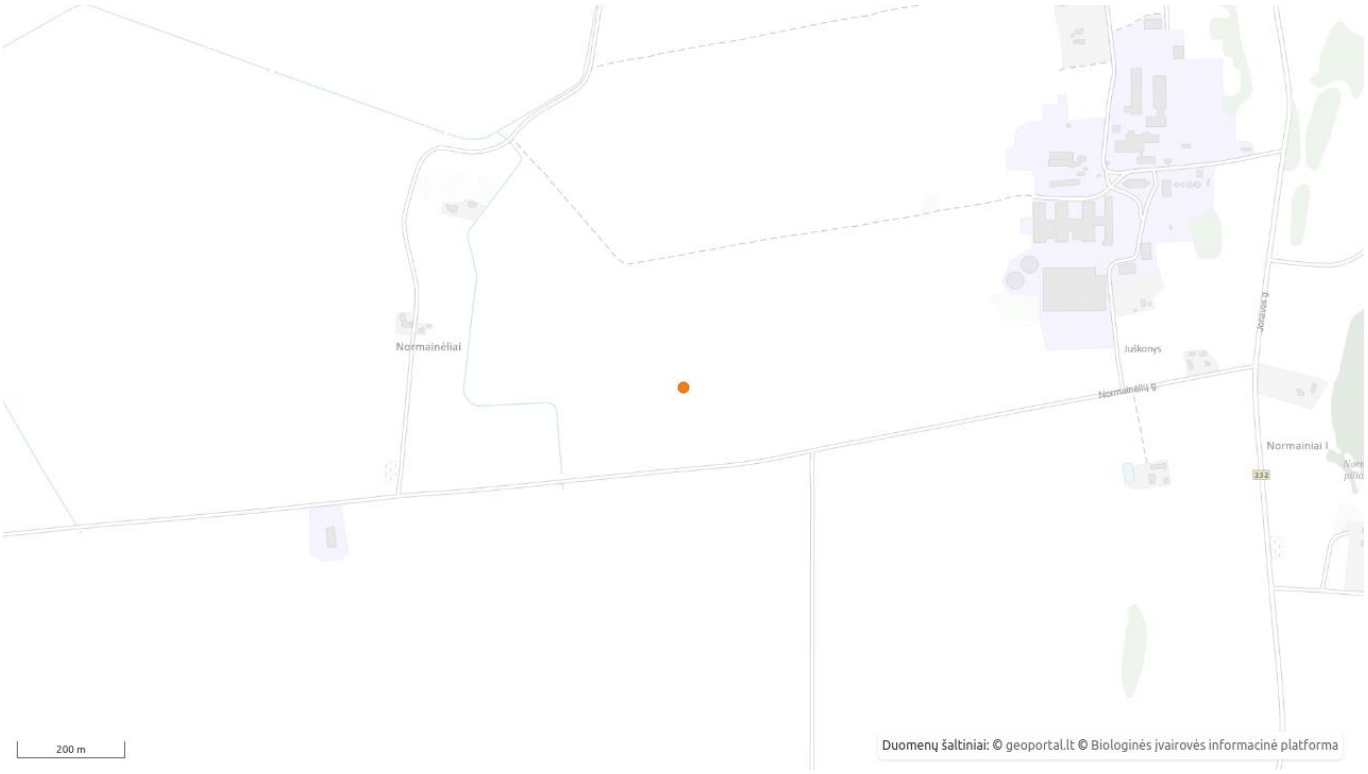
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513596.51 6118471.69, 513596.49 6118471.49, 513596.44 6118471.3, 513596.35 6118471.13, 513596.22 6118470.98, 513596.07 6118470.86, 513595.9 6118470.76, 513595.71 6118470.71, 513595.51 6118470.69, 513595.32 6118470.71, 513595.13 6118470.76, 513594.96 6118470.86, 513594.81 6118470.98, 513594.68 6118471.13, 513594.59 6118471.3, 513594.53 6118471.49, 513594.51 6118471.69, 513594.53 6118471.88, 513594.59 6118472.07, 513594.68 6118472.24, 513594.81 6118472.39, 513594.96 6118472.52, 513595.13 6118472.61, 513595.32 6118472.67, 513595.51 6118472.69, 513595.71 6118472.67, 513595.9 6118472.61, 513596.07 6118472.52, 513596.22 6118472.39, 513596.35 6118472.24, 513596.44 6118472.07, 513596.49 6118471.88, 513596.51 6118471.69]]]

37. RAD-COT-COT-23423 (Putpelė)

Radavietės / augavietės kodas	RAD-COT-COT-23423
Pavadinimas	Putpelė
Lot. pavadinimas	*Coturnix coturnix*
Įtraukta į sąrašus	Berno konvencija (III), Bonos konvencija (II), Paukščių direktyva (II/2), Lietuvos raudonosios knygos sąrašas (1992) (1(E))
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Plotas
1.	2012-06-15	1	Kiti buvimo požymiai (balsai ir kt.)	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[514334.17 6121556.53, 514334.15 6121556.33, 514334.09 6121556.14, 514334 6121555.97, 514333.87 6121555.82, 514333.72 6121555.69, 514333.55 6121555.6, 514333.36 6121555.54, 514333.17 6121555.53, 514332.97 6121555.54, 514332.78 6121555.6, 514332.61 6121555.69, 514332.46 6121555.82, 514332.34 6121555.97, 514332.24 6121556.14, 514332.19 6121556.33, 514332.17 6121556.53, 514332.19 6121556.72, 514332.24 6121556.91, 514332.34 6121557.08, 514332.46 6121557.23, 514332.61 6121557.36, 514332.78 6121557.45, 514332.97 6121557.51, 514333.17 6121557.53, 514333.36 6121557.51, 514333.55 6121557.45, 514333.72 6121557.36, 514333.87 6121557.23, 514334 6121557.08, 514334.09 6121556.91, 514334.15 6121556.72, 514334.17 6121556.53]]]

38. RAD-CIC-CIC-51141 (Baltasis gandras)

Radavietės / augavietės kodas	RAD-CIC-CIC-51141
Pavadinimas	Baltasis gandras
Lot. pavadinimas	*Ciconia ciconia*
Įtraukta į sąrašus	AEWA susitarimas (III), Paukščių direktyva (I), Bonos konvencija (II), Berno konvencija (II)
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2010-08-09	2	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

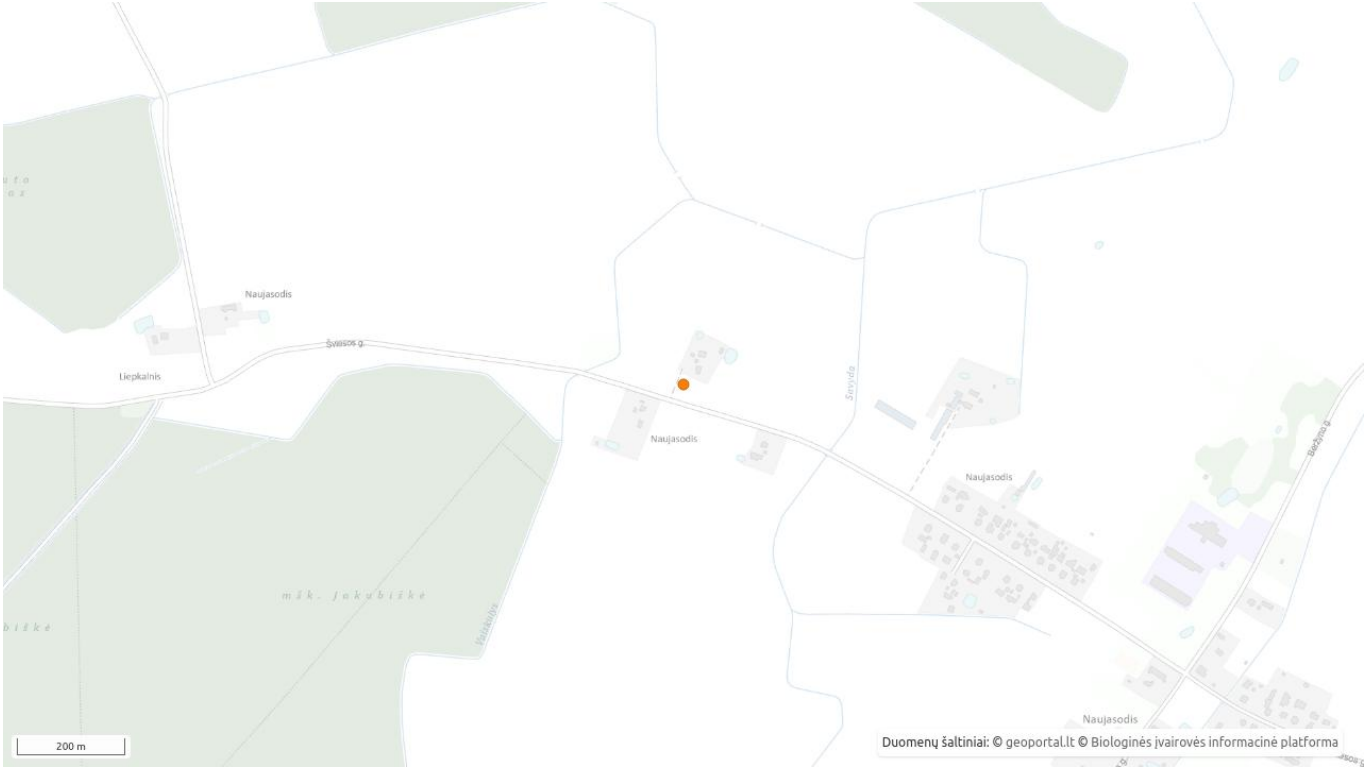
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[506701 6110933, 506700.98 6110932.8, 506700.92 6110932.62, 506700.83 6110932.44, 506700.71 6110932.29, 506700.56 6110932.17, 506700.38 6110932.08, 506700.2 6110932.02, 506700 6110932, 506699.8 6110932.02, 506699.62 6110932.08, 506699.44 6110932.17, 506699.29 6110932.29, 506699.17 6110932.44, 506699.08 6110932.62, 506699.02 6110932.8, 506699 6110933, 506699.02 6110933.2, 506699.08 6110933.38, 506699.17 6110933.56, 506699.29 6110933.71, 506699.44 6110933.83, 506699.62 6110933.92, 506699.8 6110933.98, 506700 6110934, 506700.2 6110933.98, 506700.38 6110933.92, 506700.56 6110933.83, 506700.71 6110933.71, 506700.83 6110933.56, 506700.92 6110933.38, 506700.98 6110933.2, 506701 6110933]]]

39. RAD-CIC-CIC-51144 (Baltasis gandras)

Radavietės / augavietės kodas	RAD-CIC-CIC-51144
Pavadinimas	Baltasis gandras
Lot. pavadinimas	*Ciconia ciconia*
Įtraukta į sąrašus	AEWA susitarimas (III), Paukščių direktyva (I), Bonos konvencija (II), Berno konvencija (II)
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2010-08-09	2	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

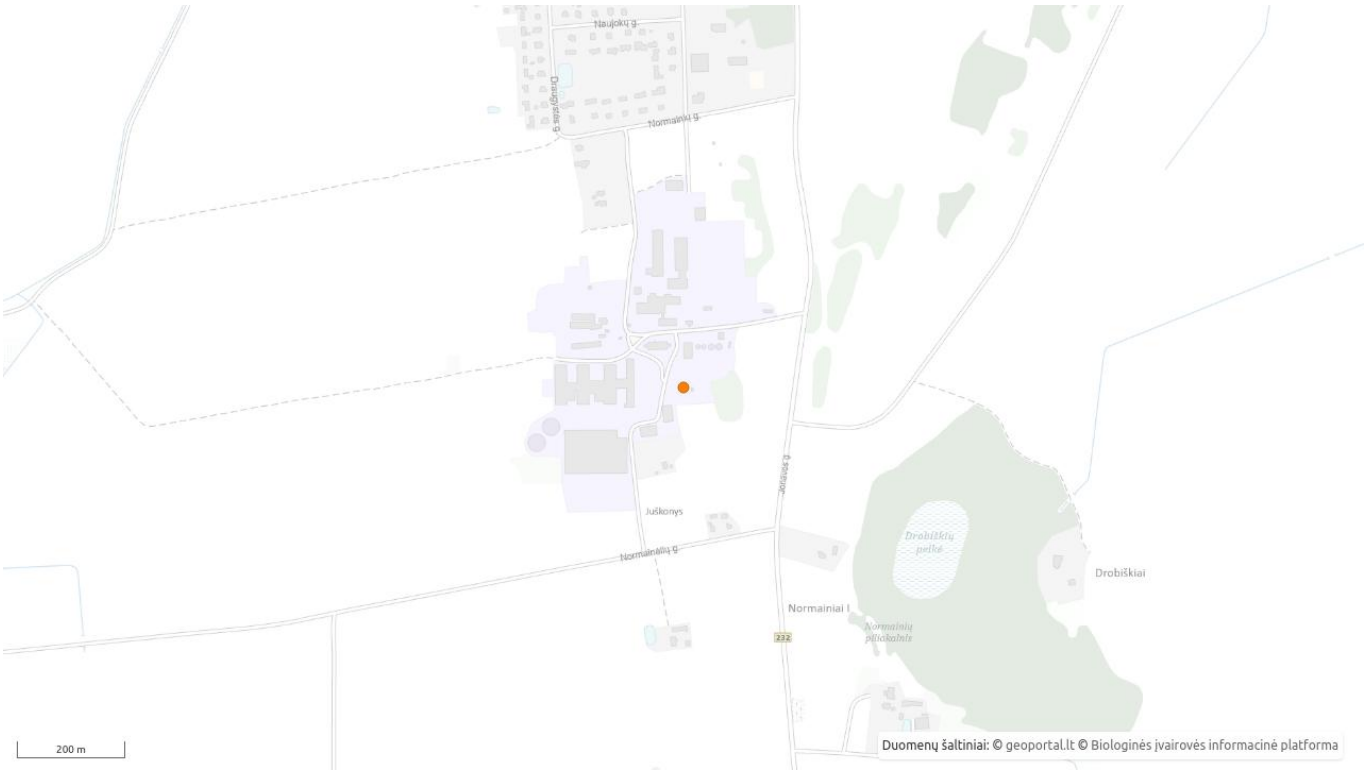
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[506154 6111208, 506153.98 6111207.8, 506153.92 6111207.62, 506153.83 6111207.44, 506153.71 6111207.29, 506153.56 6111207.17, 506153.38 6111207.08, 506153.2 6111207.02, 506153 6111207, 506152.8 6111207.02, 506152.62 6111207.08, 506152.44 6111207.17, 506152.29 6111207.29, 506152.17 6111207.44, 506152.08 6111207.62, 506152.02 6111207.8, 506152 6111208, 506152.02 6111208.2, 506152.08 6111208.38, 506152.17 6111208.56, 506152.29 6111208.71, 506152.44 6111208.83, 506152.62 6111208.92, 506152.8 6111208.98, 506153 6111209, 506153.2 6111208.98, 506153.38 6111208.92, 506153.56 6111208.83, 506153.71 6111208.71, 506153.83 6111208.56, 506153.92 6111208.38, 506153.98 6111208.2, 506154 6111208]]]

40. RAD-CIC-CIC-51134 (Baltasis gandras)

Radavietės / augavietės kodas	RAD-CIC-CIC-51134
Pavadinimas	Baltasis gandras
Lot. pavadinimas	*Ciconia ciconia*
Įtraukta į sąrašus	AEWA susitarimas (III), Paukščių direktyva (I), Bonos konvencija (II), Berno konvencija (II)
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2010-08-06	2	Lizdas, ola ir pan	Jaunas, nesubrendęs individas	3.00 m²

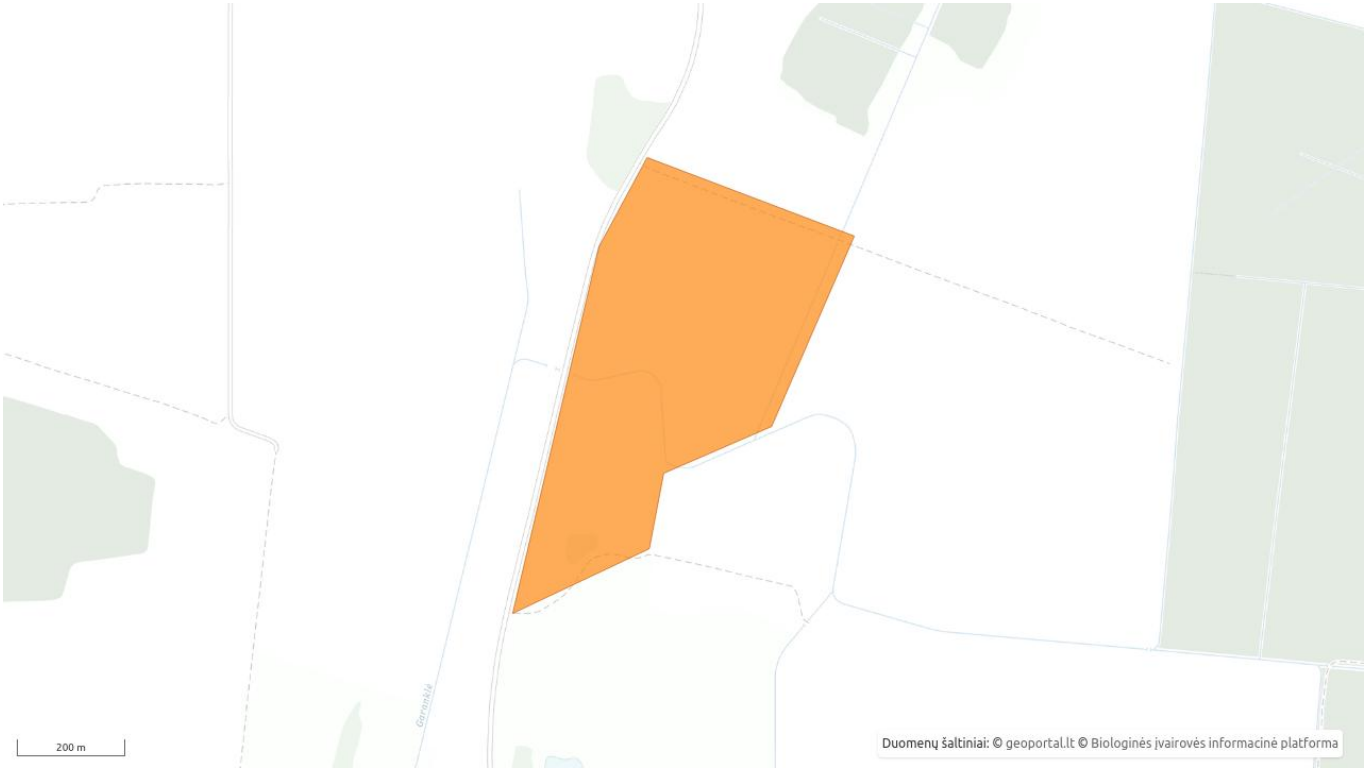
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[515214 6121855, 515213.98 6121854.8, 515213.92 6121854.62, 515213.83 6121854.44, 515213.71 6121854.29, 515213.56 6121854.17, 515213.38 6121854.08, 515213.2 6121854.02, 515213 6121854, 515212.8 6121854.02, 515212.62 6121854.08, 515212.44 6121854.17, 515212.29 6121854.29, 515212.17 6121854.44, 515212.08 6121854.62, 515212.02 6121854.8, 515212 6121855, 515212.02 6121855.2, 515212.08 6121855.38, 515212.17 6121855.56, 515212.29 6121855.71, 515212.44 6121855.83, 515212.62 6121855.92, 515212.8 6121855.98, 515213 6121856, 515213.2 6121855.98, 515213.38 6121855.92, 515213.56 6121855.83, 515213.71 6121855.71, 515213.83 6121855.56, 515213.92 6121855.38, 515213.98 6121855.2, 515214 6121855]]]

41. RAD-CIR-PYG-6866 (Pievinė lingė)

Radavietės / augavietės kodas	RAD-CIR-PYG-6866
Pavadinimas	Pievinė lingė
Lot. pavadinimas	*Circus pygargus*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Paukščių direktyva (I), Lietuvos raudonosios knygos sąrašas (1992) (3(R)), Lietuvos TSR raudonosios knygos sąrašas (1984), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (2(V)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))
Plotas	0.25 km²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Vystymosi stadija	Plotas
1.	2010-06-10	2	Suaugęs individas	0.25 km²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[515335.31 6120634.23, 515716.42 6120489.67, 515564.29 6120139.1, 515365.85 6120053.11, 515339.39 6119914.2, 515088.04 6119795.14, 515246.79 6120469.83, 515335.31 6120634.23]]]

42. RAD-CIC-CIC-23315 (Baltasis gandras)

Radavietės / augavietės kodas	RAD-CIC-CIC-23315
Pavadinimas	Baltasis gandras
Lot. pavadinimas	*Ciconia ciconia*
Įtraukta į sąrašus	AEWA susitarimas (III), Paukščių direktyva (I), Bonos konvencija (II), Berno konvencija (II)
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2010-04-24	1	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513857 6121817, 513856.98 6121816.8, 513856.92 6121816.62, 513856.83 6121816.44, 513856.71 6121816.29, 513856.56 6121816.17, 513856.38 6121816.08, 513856.2 6121816.02, 513856 6121816, 513855.8 6121816.02, 513855.62 6121816.08, 513855.44 6121816.17, 513855.29 6121816.29, 513855.17 6121816.44, 513855.08 6121816.62, 513855.02 6121816.8, 513855 6121817, 513855.02 6121817.2, 513855.08 6121817.38, 513855.17 6121817.56, 513855.29 6121817.71, 513855.44 6121817.83, 513855.62 6121817.92, 513855.8 6121817.98, 513856 6121818, 513856.2 6121817.98, 513856.38 6121817.92, 513856.56 6121817.83, 513856.71 6121817.71, 513856.83 6121817.56, 513856.92 6121817.38, 513856.98 6121817.2, 513857 6121817]]]

43. RAD-CIC-CIC-23321 (Baltasis gandras)

Radavietės / augavietės kodas	RAD-CIC-CIC-23321
Pavadinimas	Baltasis gandras
Lot. pavadinimas	*Ciconia ciconia*
Įtraukta į sąrašus	AEWA susitarimas (III), Paukščių direktyva (I), Bonos konvencija (II), Berno konvencija (II)
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2010-04-24	1	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

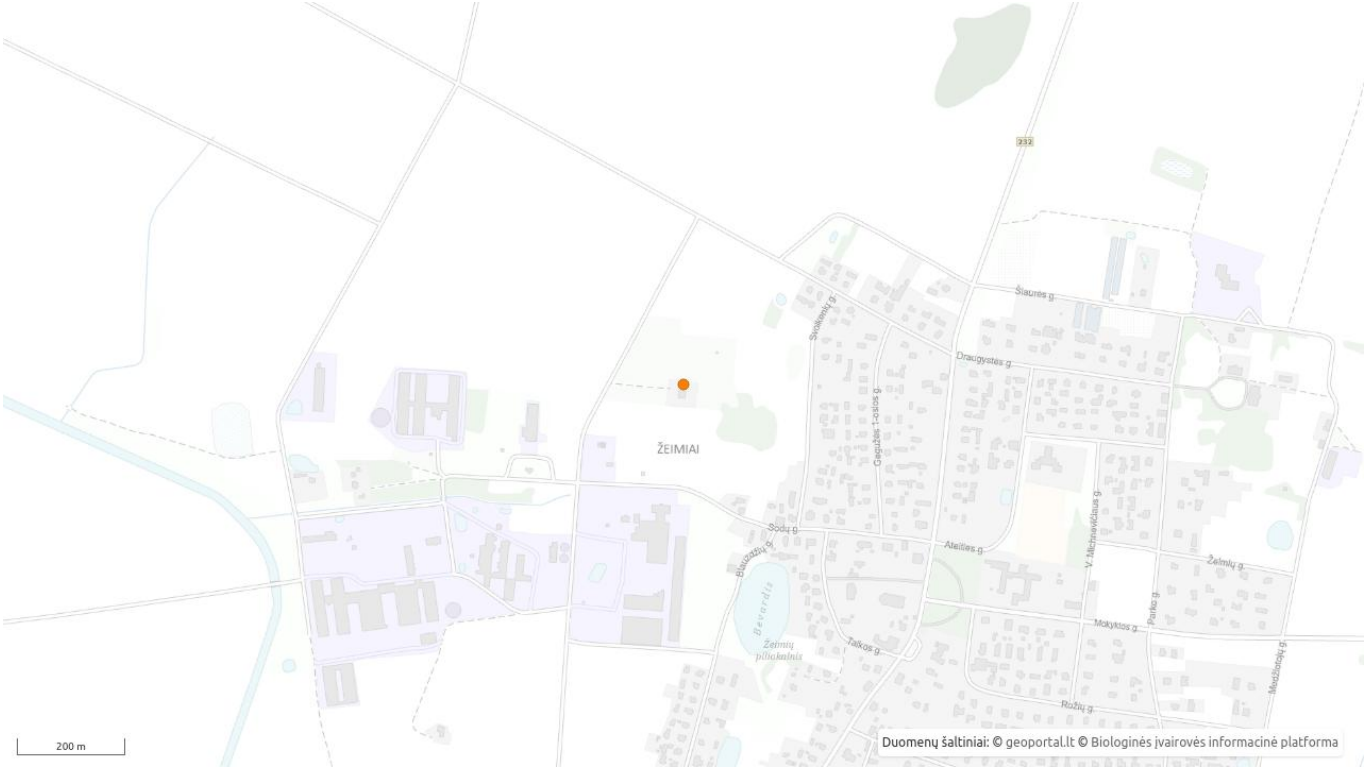
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[514757 6118345, 514756.98 6118344.8, 514756.92 6118344.62, 514756.83 6118344.44, 514756.71 6118344.29, 514756.56 6118344.17, 514756.38 6118344.08, 514756.2 6118344.02, 514756 6118344, 514755.8 6118344.02, 514755.62 6118344.08, 514755.44 6118344.17, 514755.29 6118344.29, 514755.17 6118344.44, 514755.08 6118344.62, 514755.02 6118344.8, 514755 6118345, 514755.02 6118345.2, 514755.08 6118345.38, 514755.17 6118345.56, 514755.29 6118345.71, 514755.44 6118345.83, 514755.62 6118345.92, 514755.8 6118345.98, 514756 6118346, 514756.2 6118345.98, 514756.38 6118345.92, 514756.56 6118345.83, 514756.71 6118345.71, 514756.83 6118345.56, 514756.92 6118345.38, 514756.98 6118345.2, 514757 6118345]]]

44. RAD-CIC-CIC-23344 (Baltasis gandras)

Radavietės / augavietės kodas	RAD-CIC-CIC-23344
Pavadinimas	Baltasis gandras
Lot. pavadinimas	*Ciconia ciconia*
Įtraukta į sąrašus	AEWA susitarimas (III), Paukščių direktyva (I), Bonos konvencija (II), Berno konvencija (II)
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2010-04-24	1	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

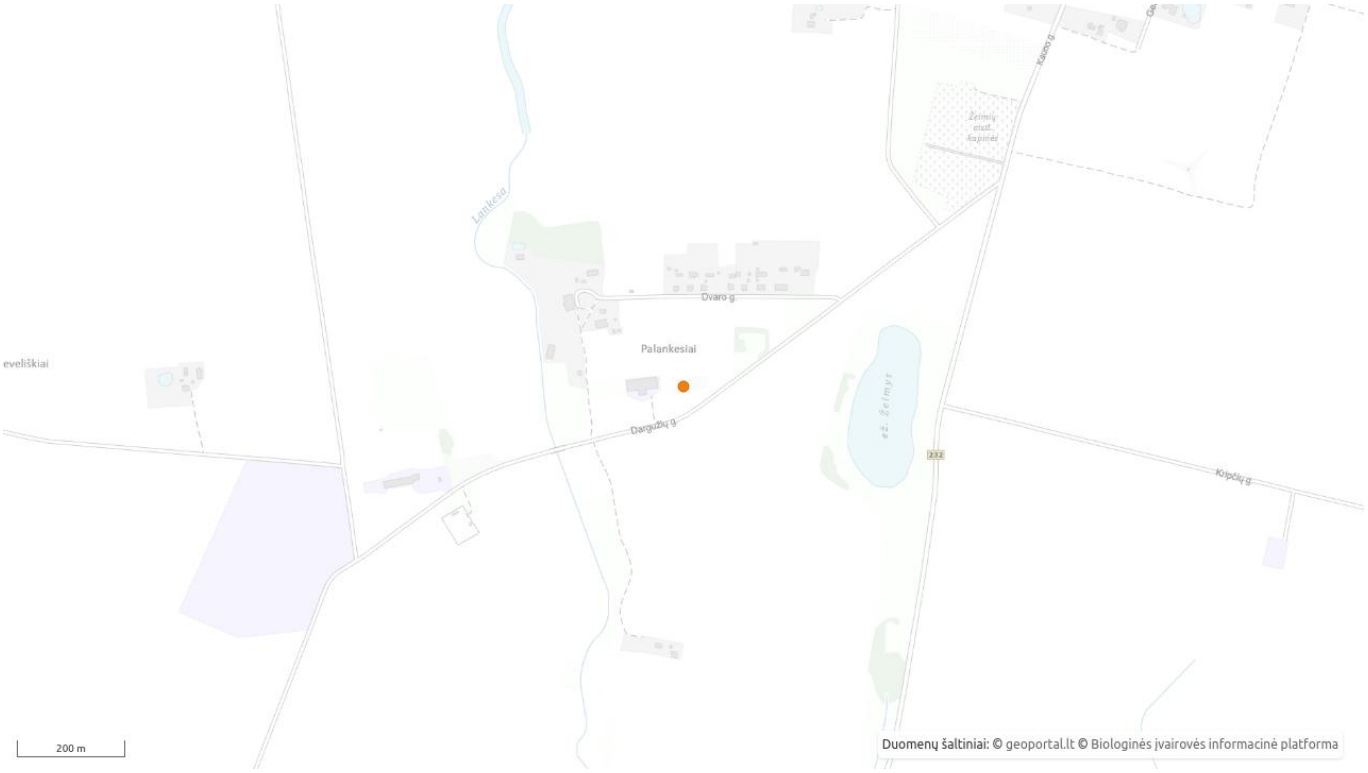
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513634 6116430, 513633.98 6116429.8, 513633.92 6116429.62, 513633.83 6116429.44, 513633.71 6116429.29, 513633.56 6116429.17, 513633.38 6116429.08, 513633.2 6116429.02, 513633 6116429, 513632.8 6116429.02, 513632.62 6116429.08, 513632.44 6116429.17, 513632.29 6116429.29, 513632.17 6116429.44, 513632.08 6116429.62, 513632.02 6116429.8, 513632 6116430, 513632.02 6116430.2, 513632.08 6116430.38, 513632.17 6116430.56, 513632.29 6116430.71, 513632.44 6116430.83, 513632.62 6116430.92, 513632.8 6116430.98, 513633 6116431, 513633.2 6116430.98, 513633.38 6116430.92, 513633.56 6116430.83, 513633.71 6116430.71, 513633.83 6116430.56, 513633.92 6116430.38, 513633.98 6116430.2, 513634 6116430]]]

45. RAD-CIC-CIC-23350 (Baltasis gandras)

Radavietės / augavietės kodas	RAD-CIC-CIC-23350
Pavadinimas	Baltasis gandras
Lot. pavadinimas	*Ciconia ciconia*
Įtraukta į sąrašus	AEWA susitarimas (III), Paukščių direktyva (I), Bonos konvencija (II), Berno konvencija (II)
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija	Plotas
1.	2010-04-24	1	Lizdas, ola ir pan	Suaugęs individas	3.00 m²

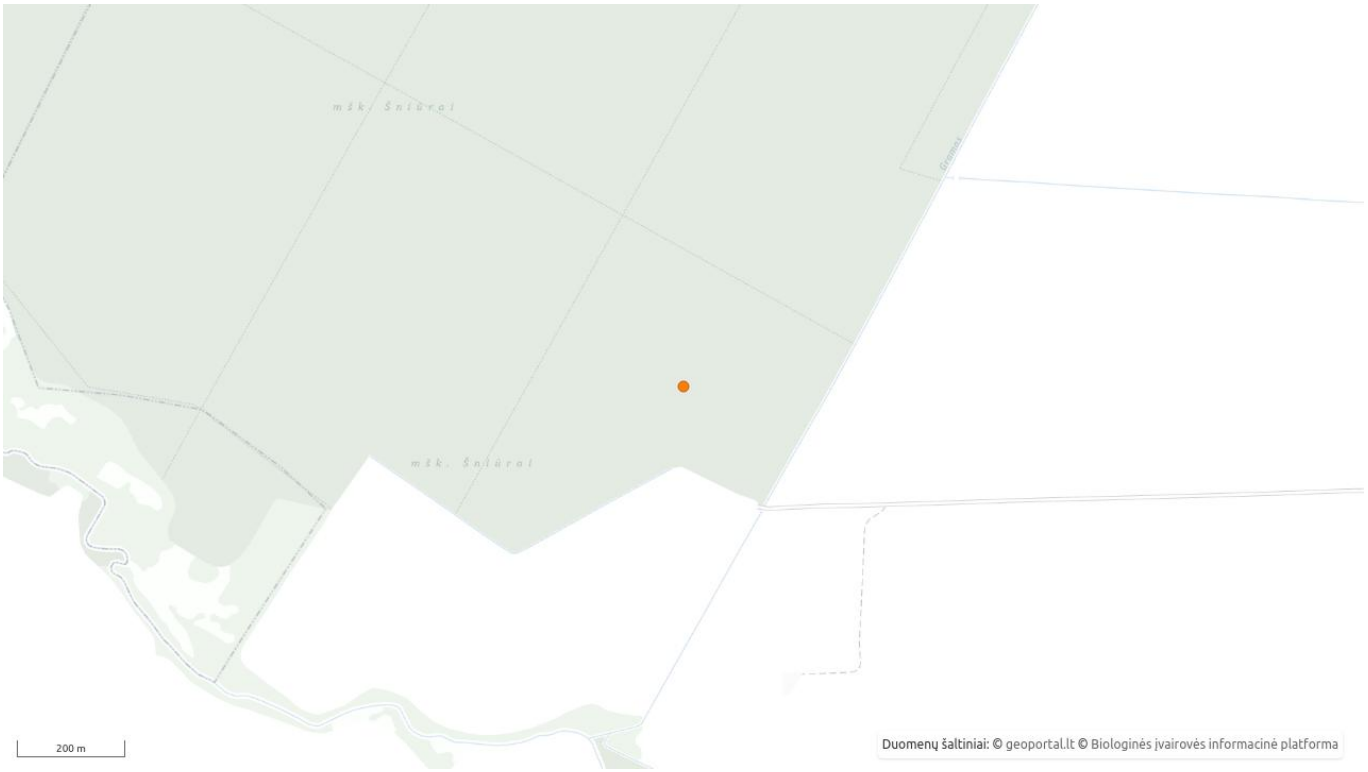
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512986 6114657, 512985.98 6114656.8, 512985.92 6114656.62, 512985.83 6114656.44, 512985.71 6114656.29, 512985.56 6114656.17, 512985.38 6114656.08, 512985.2 6114656.02, 512985 6114656, 512984.8 6114656.02, 512984.62 6114656.08, 512984.44 6114656.17, 512984.29 6114656.29, 512984.17 6114656.44, 512984.08 6114656.62, 512984.02 6114656.8, 512984 6114657, 512984.02 6114657.2, 512984.08 6114657.38, 512984.17 6114657.56, 512984.29 6114657.71, 512984.44 6114657.83, 512984.62 6114657.92, 512984.8 6114657.98, 512985 6114658, 512985.2 6114657.98, 512985.38 6114657.92, 512985.56 6114657.83, 512985.71 6114657.71, 512985.83 6114657.56, 512985.92 6114657.38, 512985.98 6114657.2, 512986 6114657]]]

46. RAD-HER-COR-26919 (Korališkasis trapiadyglis)

Radavietės / augavietės kodas	RAD-HER-COR-26919
Pavadinimas	Korališkasis trapiadyglis
Lot. pavadinimas	*Hericium coralloides*
Įtraukta į sąrašus	Lietuvos raudonosios knygos sąrašas (1992) (3(R)), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (3(R)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Vystymosi stadija	Plotas
1.	2007-10-10	1	Augantis grybas arba kerpė	3.00 m²

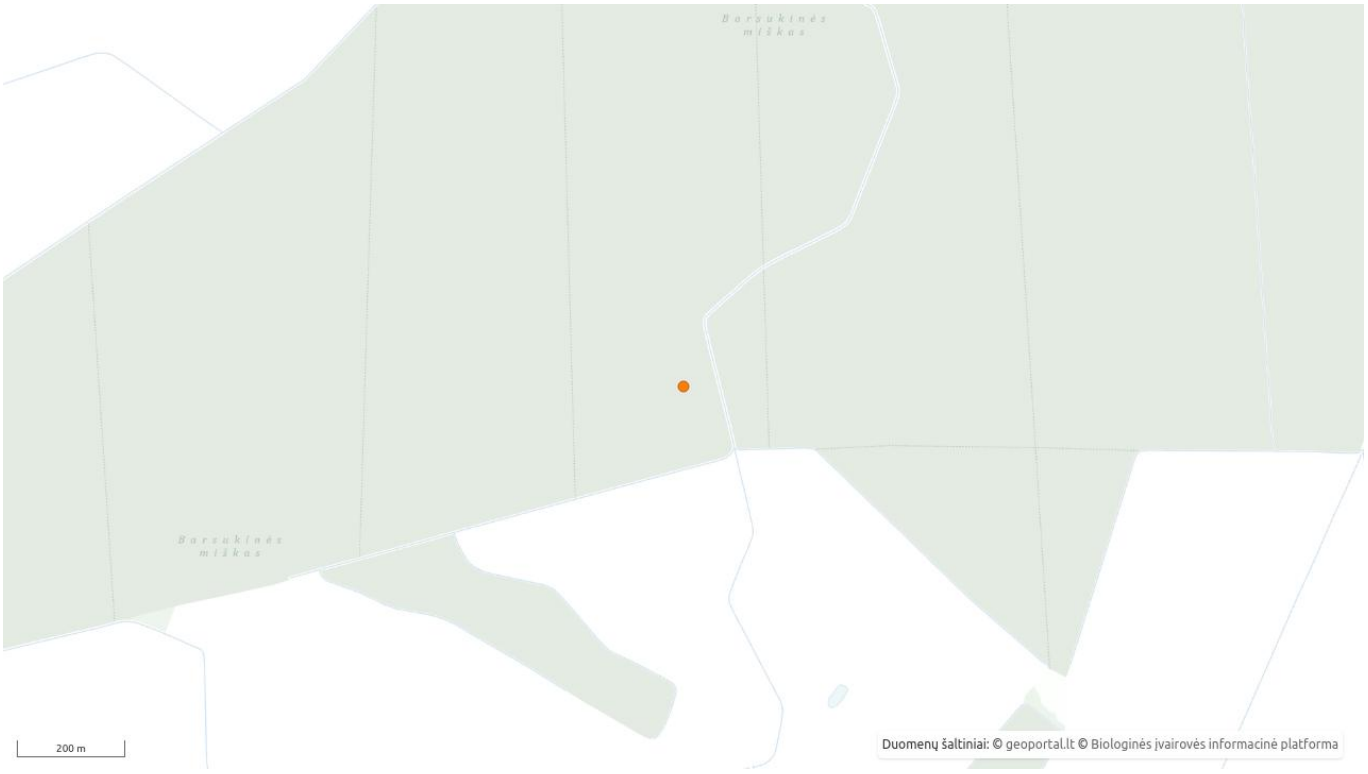
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512633.44 6123151.39, 512633.42 6123151.19, 512633.36 6123151.01, 512633.27 6123150.83, 512633.15 6123150.68, 512633 6123150.56, 512632.82 6123150.46, 512632.64 6123150.41, 512632.44 6123150.39, 512632.25 6123150.41, 512632.06 6123150.46, 512631.89 6123150.56, 512631.73 6123150.68, 512631.61 6123150.83, 512631.52 6123151.01, 512631.46 6123151.19, 512631.44 6123151.39, 512631.46 6123151.58, 512631.52 6123151.77, 512631.61 6123151.94, 512631.73 6123152.09, 512631.89 6123152.22, 512632.06 6123152.31, 512632.25 6123152.37, 512632.44 6123152.39, 512632.64 6123152.37, 512632.82 6123152.31, 512633 6123152.22, 512633.15 6123152.09, 512633.27 6123151.94, 512633.36 6123151.77, 512633.42 6123151.58, 512633.44 6123151.39]]]

47. RAD-XES-RUF-33406 (Ąžuolinis skaptukas)

Radavietės / augavietės kodas	RAD-XES-RUF-33406
Pavadinimas	Ąžuolinis skaptukas
Lot. pavadinimas	*Xestobium rufovillosum*
Įtraukta į sąrašus	LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (4(I)), Lietuvos raudonosios knygos sąrašas (2021) (Arti grėsmės esantys (NT))
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Plotas
1.	2003-09-08	1	Kiti buvimo požymiai (balsai ir kt.)	3.00 m²

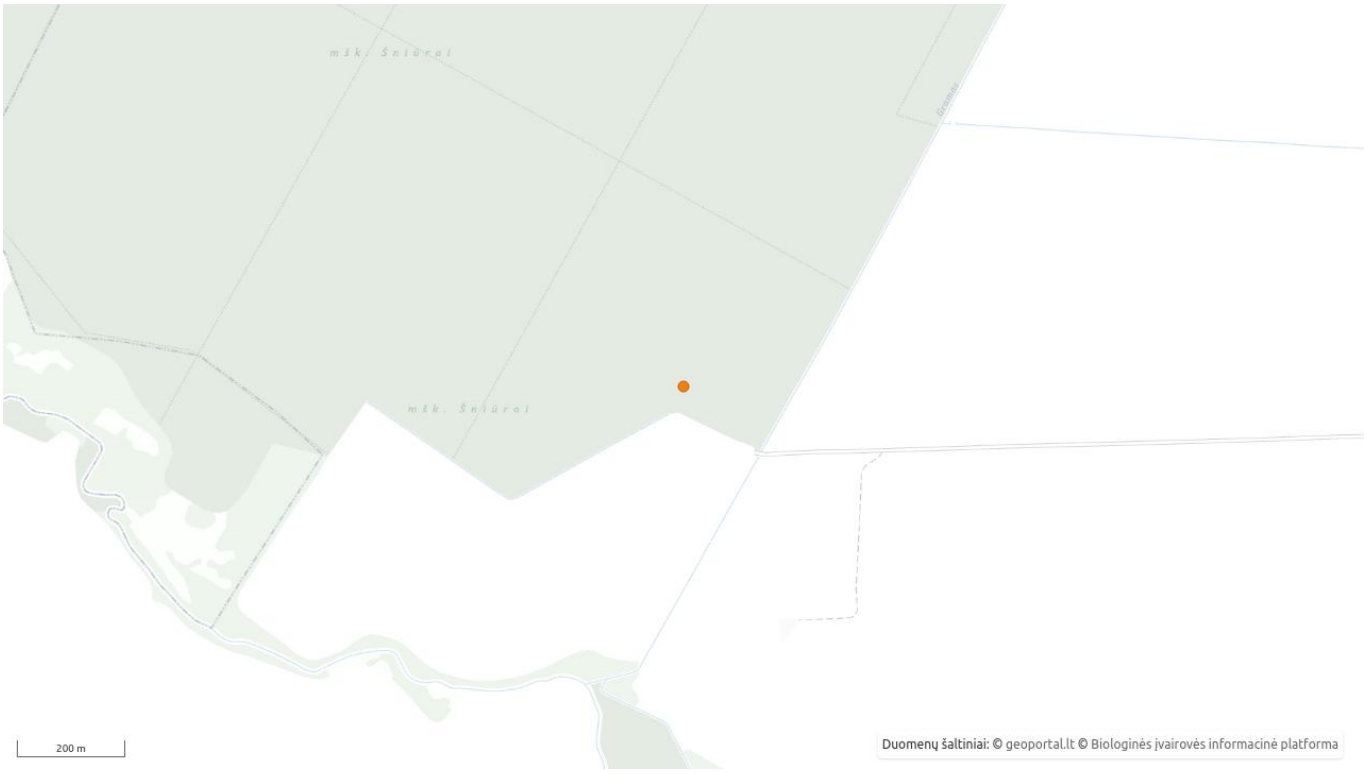
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[506984 6112358, 506983.98 6112357.8, 506983.92 6112357.62, 506983.83 6112357.44, 506983.71 6112357.29, 506983.56 6112357.17, 506983.38 6112357.08, 506983.2 6112357.02, 506983 6112357, 506982.8 6112357.02, 506982.62 6112357.08, 506982.44 6112357.17, 506982.29 6112357.29, 506982.17 6112357.44, 506982.08 6112357.62, 506982.02 6112357.8, 506982 6112358, 506982.02 6112358.2, 506982.08 6112358.38, 506982.17 6112358.56, 506982.29 6112358.71, 506982.44 6112358.83, 506982.62 6112358.92, 506982.8 6112358.98, 506983 6112359, 506983.2 6112358.98, 506983.38 6112358.92, 506983.56 6112358.83, 506983.71 6112358.71, 506983.83 6112358.56, 506983.92 6112358.38, 506983.98 6112358.2, 506984 6112358]]]

48. RAD-XES-RUF-34177 (Ąžuolinis skaptukas)

Radavietės / augavietės kodas	RAD-XES-RUF-34177
Pavadinimas	Ąžuolinis skaptukas
Lot. pavadinimas	*Xestobium rufovillosum*
Įtraukta į sąrašus	LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (4(I)), Lietuvos raudonosios knygos sąrašas (2021) (Arti grėsmės esantys (NT))
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Plotas
1.	2003-06-09	10	Kiti buvimo požymiai (balsai ir kt.)	3.00 m²

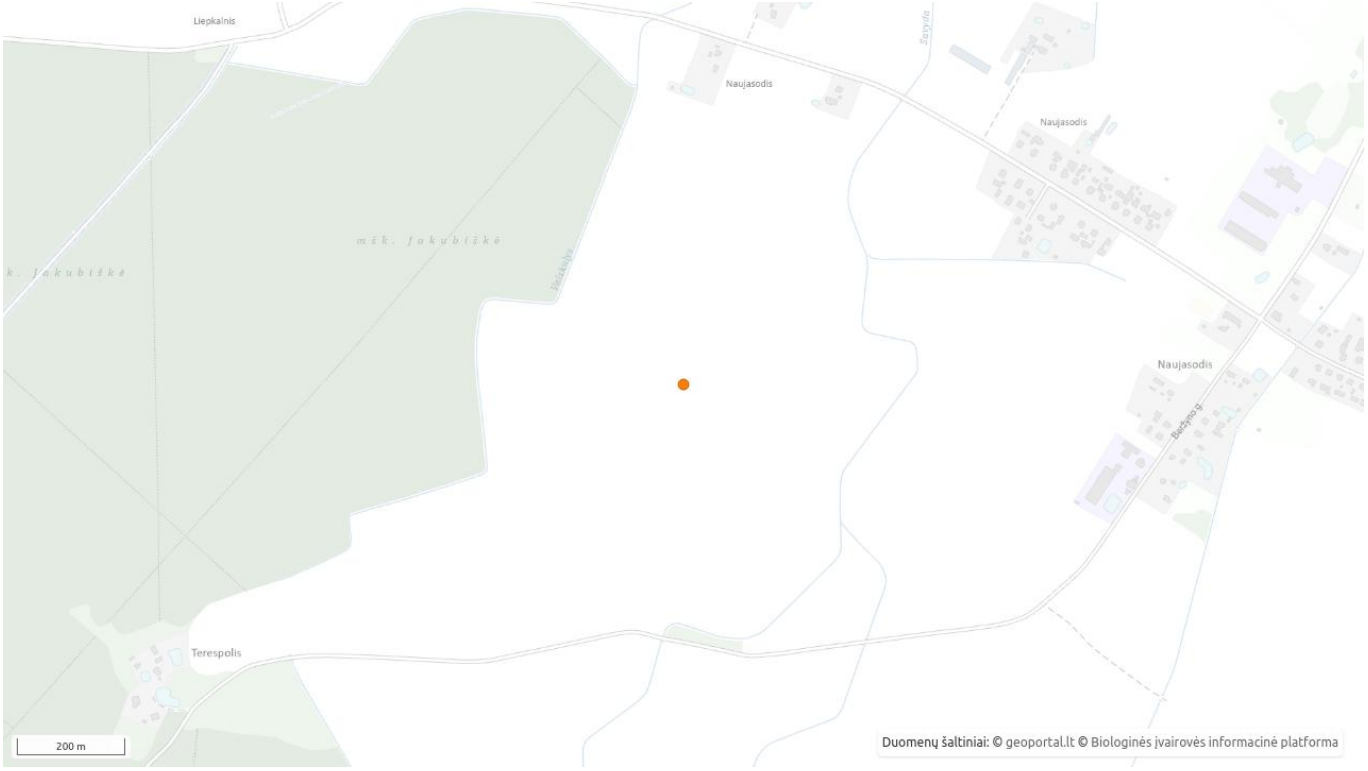
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512639 6123051, 512638.98 6123050.8, 512638.92 6123050.62, 512638.83 6123050.44, 512638.71 6123050.29, 512638.56 6123050.17, 512638.38 6123050.08, 512638.2 6123050.02, 512638 6123050, 512637.8 6123050.02, 512637.62 6123050.08, 512637.44 6123050.17, 512637.29 6123050.29, 512637.17 6123050.44, 512637.08 6123050.62, 512637.02 6123050.8, 512637 6123051, 512637.02 6123051.2, 512637.08 6123051.38, 512637.17 6123051.56, 512637.29 6123051.71, 512637.44 6123051.83, 512637.62 6123051.92, 512637.8 6123051.98, 512638 6123052, 512638.2 6123051.98, 512638.38 6123051.92, 512638.56 6123051.83, 512638.71 6123051.71, 512638.83 6123051.56, 512638.92 6123051.38, 512638.98 6123051.2, 512639 6123051]]]

49. RAD-COT-COT-22388 (Putpelė)

Radavietės / augavietės kodas	RAD-COT-COT-22388
Pavadinimas	Putpelė
Lot. pavadinimas	*Coturnix coturnix*
Įtraukta į sąrašus	Berno konvencija (III), Bonos konvencija (II), Paukščių direktyva (II/2), Lietuvos raudonosios knygos sąrašas (1992) (1(E))
Plotas	3.00 m²

Radavietės / augavietės žemėlapis:



Radavietės / augavietės stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Plotas
1.	1999-06-19	1	Kiti buvimo požymiai (balsai ir kt.)	3.00 m²

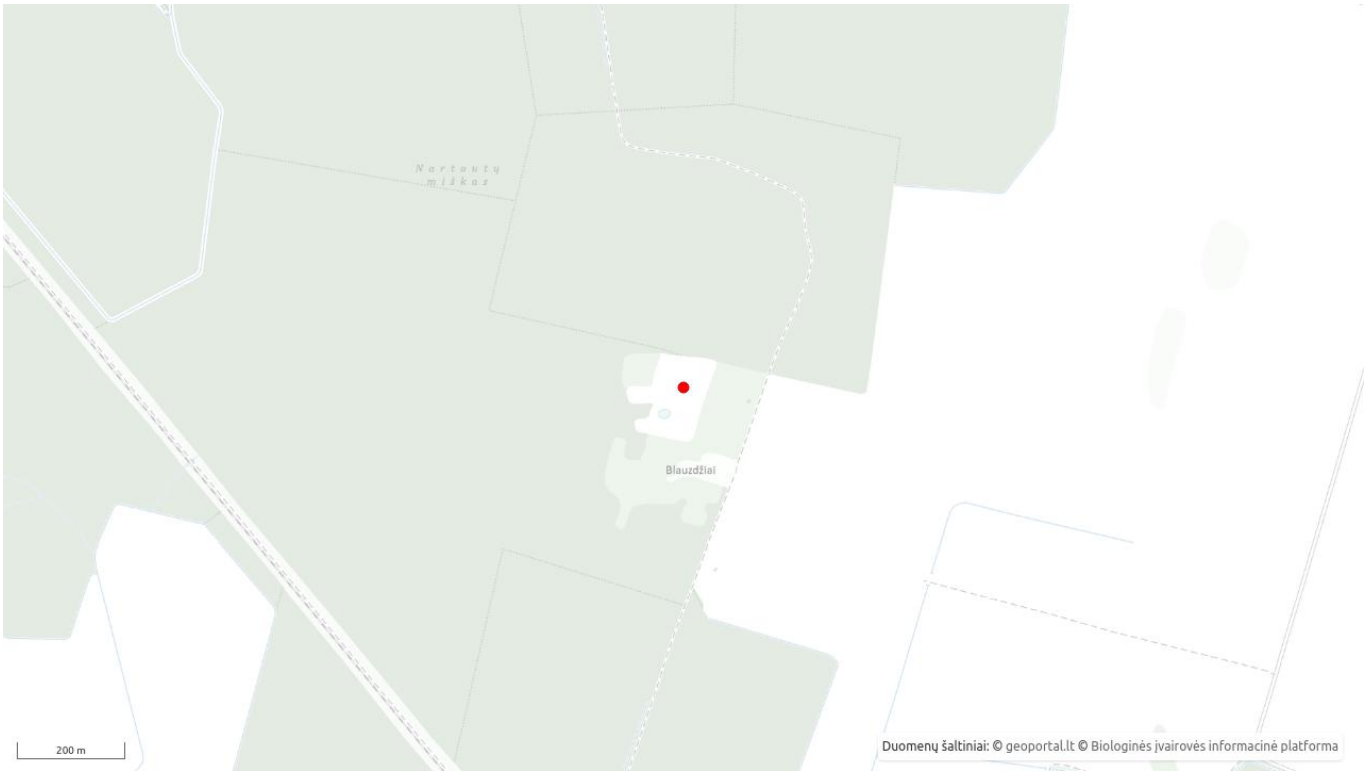
Radavietės / augavietės koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[506016.55 6110554.55, 506016.53 6110554.36, 506016.47 6110554.17, 506016.38 6110553.99, 506016.26 6110553.84, 506016.11 6110553.72, 506015.93 6110553.63, 506015.74 6110553.57, 506015.55 6110553.55, 506015.35 6110553.57, 506015.17 6110553.63, 506014.99 6110553.72, 506014.84 6110553.84, 506014.72 6110553.99, 506014.63 6110554.17, 506014.57 6110554.36, 506014.55 6110554.55, 506014.57 6110554.75, 506014.63 6110554.93, 506014.72 6110555.11, 506014.84 6110555.26, 506014.99 6110555.38, 506015.17 6110555.47, 506015.35 6110555.53, 506015.55 6110555.55, 506015.74 6110555.53, 506015.93 6110555.47, 506016.11 6110555.38, 506016.26 6110555.26, 506016.38 6110555.11, 506016.47 6110554.93, 506016.53 6110554.75, 506016.55 6110554.55]]]

Radavietės (pavieniai stebėjimai)

1. Machaonas

Pavadinimas	Machaonas
Lot. pavadinimas	*Papilio machaon*
Įtraukta į sąrašus	LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (4(I)), Lietuvos raudonosios knygos sąrašas (2021) (Nekeliantys susirūpinimo (LC))



Stebėjimų duomenys:

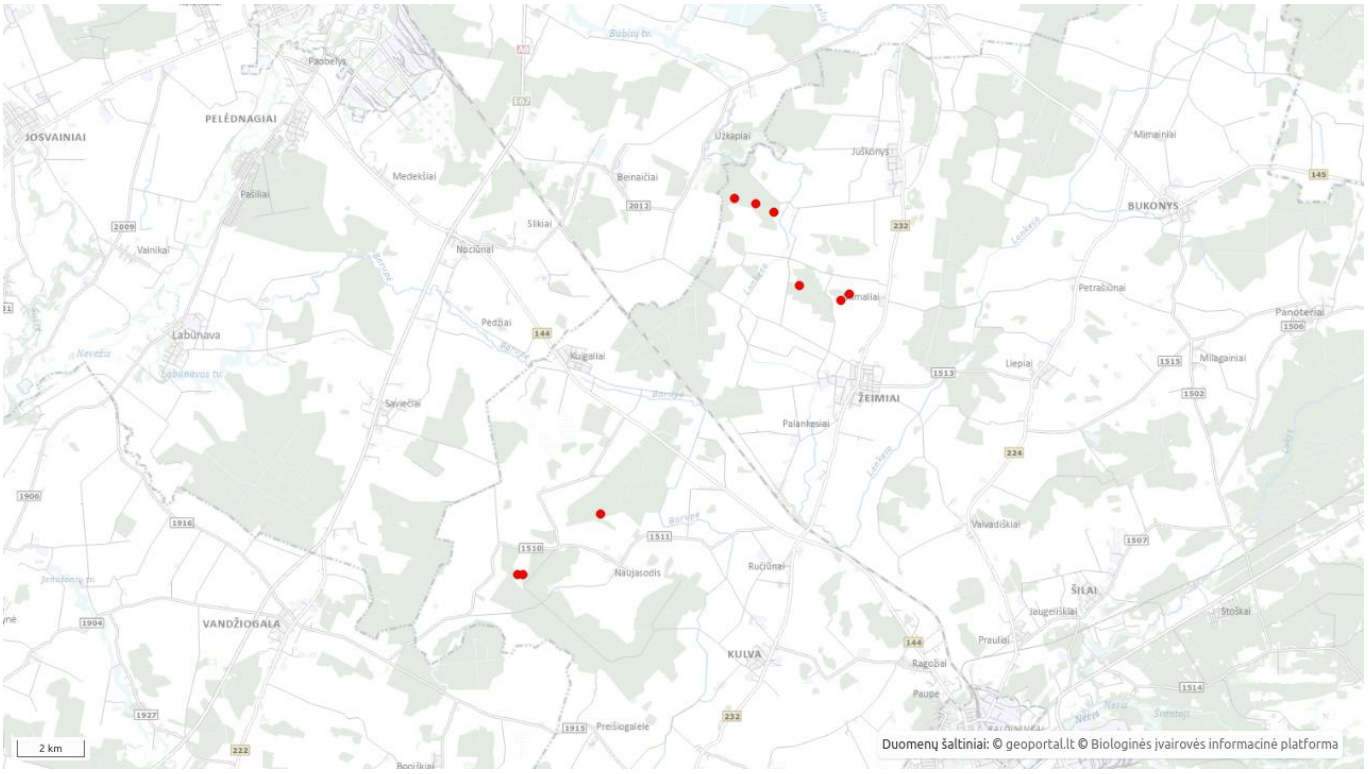
Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2025-06-03	1	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[509470.99 6116673.87, 509470.97 6116673.67, 509470.92 6116673.48, 509470.82 6116673.31, 509470.7 6116673.16, 509470.55 6116673.04, 509470.37 6116672.94, 509470.19 6116672.89, 509469.99 6116672.87, 509469.8 6116672.89, 509469.61 6116672.94, 509469.44 6116673.04, 509469.28 6116673.16, 509469.16 6116673.31, 509469.07 6116673.48, 509469.01 6116673.67, 509468.99 6116673.87, 509469.01 6116674.06, 509469.07 6116674.25, 509469.16 6116674.42, 509469.28 6116674.57, 509469.44 6116674.7, 509469.61 6116674.79, 509469.8 6116674.85, 509469.99 6116674.87, 509470.19 6116674.85, 509470.37 6116674.79, 509470.55 6116674.7, 509470.7 6116674.57, 509470.82 6116674.42, 509470.92 6116674.25, 509470.97 6116674.06, 509470.99 6116673.87]]]

2. Ąžuolinis skaptukas

Pavadinimas	Ąžuolinis skaptukas
Lot. pavadinimas	*Xestobium rufovillosum*
Įtraukta į sąrašus	LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (4(I)), Lietuvos raudonosios knygos sąrašas (2021) (Arti grėsmės esantys (NT))



Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai
1.	2003-09-18	1	Kiti buvimo požymiai (balsai ir kt.)

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513825 6118669, 513824.98 6118668.8, 513824.92 6118668.62, 513824.83 6118668.44, 513824.71 6118668.29, 513824.56 6118668.17, 513824.38 6118668.08, 513824.2 6118668.02, 513824 6118668, 513823.8 6118668.02, 513823.62 6118668.08, 513823.44 6118668.17, 513823.29 6118668.29, 513823.17 6118668.44, 513823.08 6118668.62, 513823.02 6118668.8, 513823 6118669, 513823.02 6118669.2, 513823.08 6118669.38, 513823.17 6118669.56, 513823.29 6118669.71, 513823.44 6118669.83, 513823.62 6118669.92, 513823.8 6118669.98, 513824 6118670, 513824.2 6118669.98, 513824.38 6118669.92, 513824.56 6118669.83, 513824.71 6118669.71, 513824.83 6118669.56, 513824.92 6118669.38, 513824.98 6118669.2, 513825 6118669]]]

2.	2003-09-18	3	Kiti buvimo požymiai (balsai ir kt.)

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513589 6118495, 513588.98 6118494.8, 513588.92 6118494.62, 513588.83 6118494.44, 513588.71 6118494.29, 513588.56 6118494.17, 513588.38 6118494.08, 513588.2 6118494.02, 513588 6118494, 513587.8 6118494.02, 513587.62 6118494.08, 513587.44 6118494.17, 513587.29 6118494.29, 513587.17 6118494.44, 513587.08 6118494.62, 513587.02 6118494.8, 513587 6118495, 513587.02 6118495.2, 513587.08 6118495.38, 513587.17 6118495.56, 513587.29 6118495.71, 513587.44 6118495.83, 513587.62 6118495.92, 513587.8 6118495.98, 513588 6118496, 513588.2 6118495.98, 513588.38 6118495.92, 513588.56 6118495.83, 513588.71 6118495.71, 513588.83 6118495.56, 513588.92 6118495.38, 513588.98 6118495.2, 513589 6118495]]]

3.	2003-09-18	1	Kiti buvimo požymiai (balsai ir kt.)

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512369 6118917, 512368.98 6118916.8, 512368.92 6118916.62, 512368.83 6118916.44, 512368.71 6118916.29, 512368.56 6118916.17, 512368.38 6118916.08, 512368.2 6118916.02, 512368 6118916, 512367.8 6118916.02, 512367.62 6118916.08, 512367.44 6118916.17, 512367.29 6118916.29, 512367.17 6118916.44, 512367.08 6118916.62, 512367.02 6118916.8, 512367 6118917, 512367.02 6118917.2, 512367.08 6118917.38, 512367.17 6118917.56, 512367.29 6118917.71, 512367.44 6118917.83, 512367.62 6118917.92, 512367.8 6118917.98, 512368 6118918, 512368.2 6118917.98, 512368.38 6118917.92, 512368.56 6118917.83, 512368.71 6118917.71, 512368.83 6118917.56, 512368.92 6118917.38, 512368.98 6118917.2, 512369 6118917]]]

4.	2003-09-05	1	Kiti buvimo požymiai (balsai ir kt.)

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[506512 6112210, 506511.98 6112209.8, 506511.92 6112209.62, 506511.83 6112209.44, 506511.71 6112209.29, 506511.56 6112209.17, 506511.38 6112209.08, 506511.2 6112209.02, 506511 6112209, 506510.8 6112209.02, 506510.62 6112209.08, 506510.44 6112209.17, 506510.29 6112209.29, 506510.17 6112209.44, 506510.08 6112209.62, 506510.02 6112209.8, 506510 6112210, 506510.02 6112210.2, 506510.08 6112210.38, 506510.17 6112210.56, 506510.29 6112210.71, 506510.44 6112210.83, 506510.62 6112210.92, 506510.8 6112210.98, 506511 6112211, 506511.2 6112210.98, 506511.38 6112210.92, 506511.56 6112210.83, 506511.71 6112210.71, 506511.83 6112210.56, 506511.92 6112210.38, 506511.98 6112210.2, 506512 6112210]]]

5.	2003-08-19	1	Kiti buvimo požymiai (balsai ir kt.)

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[504078 6110425, 504077.98 6110424.8, 504077.92 6110424.62, 504077.83 6110424.44, 504077.71 6110424.29, 504077.56 6110424.17, 504077.38 6110424.08, 504077.2 6110424.02, 504077 6110424, 504076.8 6110424.02, 504076.62 6110424.08, 504076.44 6110424.17, 504076.29 6110424.29, 504076.17 6110424.44, 504076.08 6110424.62, 504076.02 6110424.8, 504076 6110425, 504076.02 6110425.2, 504076.08 6110425.38, 504076.17 6110425.56, 504076.29 6110425.71, 504076.44 6110425.83, 504076.62 6110425.92, 504076.8 6110425.98, 504077 6110426, 504077.2 6110425.98, 504077.38 6110425.92, 504077.56 6110425.83, 504077.71 6110425.71, 504077.83 6110425.56, 504077.92 6110425.38, 504077.98 6110425.2, 504078 6110425]]]

6.	2003-08-19	1	Kiti buvimo požymiai (balsai ir kt.)

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[504232 6110404, 504231.98 6110403.8, 504231.92 6110403.62, 504231.83 6110403.44, 504231.71 6110403.29, 504231.56 6110403.17, 504231.38 6110403.08, 504231.2 6110403.02, 504231 6110403, 504230.8 6110403.02, 504230.62 6110403.08, 504230.44 6110403.17, 504230.29 6110403.29, 504230.17 6110403.44, 504230.08 6110403.62, 504230.02 6110403.8, 504230 6110404, 504230.02 6110404.2, 504230.08

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai

6110404.38, 504230.17 6110404.56, 504230.29 6110404.71, 504230.44 6110404.83, 504230.62 6110404.92, 504230.8 6110404.98, 504231 6110405, 504231.2 6110404.98, 504231.38 6110404.92, 504231.56 6110404.83, 504231.71 6110404.71, 504231.83 6110404.56, 504231.92 6110404.38, 504231.98 6110404.2, 504232 6110404]]]

7.	2003-07-01	10	Kiti buvimo požymiai (balsai ir kt.)

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[510444 6121494, 510443.98 6121493.8, 510443.92 6121493.62, 510443.83 6121493.44, 510443.71 6121493.29, 510443.56 6121493.17, 510443.38 6121493.08, 510443.2 6121493.02, 510443 6121493, 510442.8 6121493.02, 510442.62 6121493.08, 510442.44 6121493.17, 510442.29 6121493.29, 510442.17 6121493.44, 510442.08 6121493.62, 510442.02 6121493.8, 510442 6121494, 510442.02 6121494.2, 510442.08 6121494.38, 510442.17 6121494.56, 510442.29 6121494.71, 510442.44 6121494.83, 510442.62 6121494.92, 510442.8 6121494.98, 510443 6121495, 510443.2 6121494.98, 510443.38 6121494.92, 510443.56 6121494.83, 510443.71 6121494.71, 510443.83 6121494.56, 510443.92 6121494.38, 510443.98 6121494.2, 510444 6121494]]]

8.	2003-06-12	10	Kiti buvimo požymiai (balsai ir kt.)

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[511618 6121089, 511617.98 6121088.8, 511617.92 6121088.62, 511617.83 6121088.44, 511617.71 6121088.29, 511617.56 6121088.17, 511617.38 6121088.08, 511617.2 6121088.02, 511617 6121088, 511616.8 6121088.02, 511616.62 6121088.08, 511616.44 6121088.17, 511616.29 6121088.29, 511616.17 6121088.44, 511616.08 6121088.62, 511616.02 6121088.8, 511616 6121089, 511616.02 6121089.2, 511616.08 6121089.38, 511616.17 6121089.56, 511616.29 6121089.71, 511616.44 6121089.83, 511616.62 6121089.92, 511616.8 6121089.98, 511617 6121090, 511617.2 6121089.98, 511617.38 6121089.92, 511617.56 6121089.83, 511617.71 6121089.71, 511617.83 6121089.56, 511617.92 6121089.38, 511617.98 6121089.2, 511618 6121089]]]

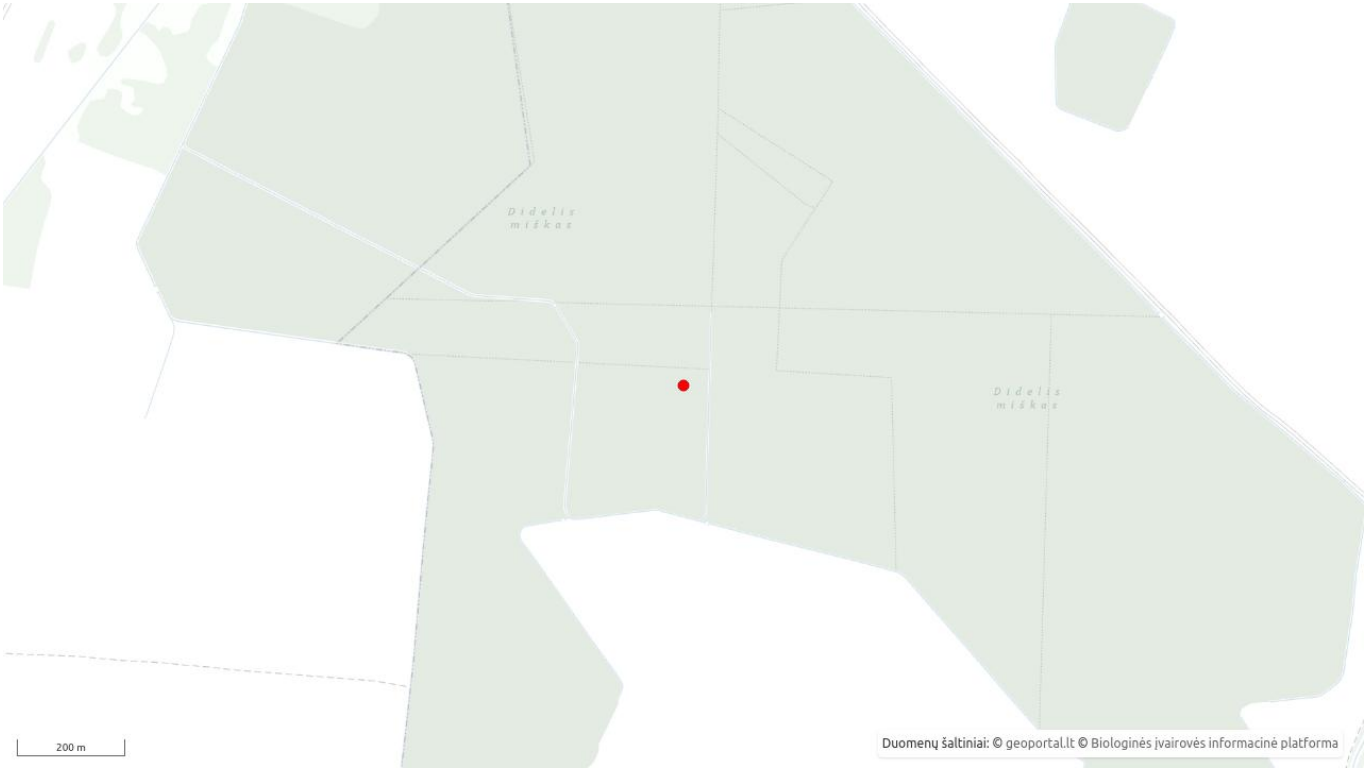
9.	2003-06-12	10	Kiti buvimo požymiai (balsai ir kt.)

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[511065 6121332, 511064.98 6121331.8, 511064.92 6121331.62, 511064.83 6121331.44, 511064.71 6121331.29, 511064.56 6121331.17, 511064.38 6121331.08, 511064.2 6121331.02, 511064 6121331, 511063.8 6121331.02, 511063.62 6121331.08, 511063.44 6121331.17, 511063.29 6121331.29, 511063.17 6121331.44, 511063.08 6121331.62, 511063.02 6121331.8, 511063 6121332, 511063.02 6121332.2, 511063.08 6121332.38, 511063.17 6121332.56, 511063.29 6121332.71, 511063.44 6121332.83, 511063.62 6121332.92, 511063.8 6121332.98, 511064 6121333, 511064.2 6121332.98, 511064.38 6121332.92, 511064.56 6121332.83, 511064.71 6121332.71, 511064.83 6121332.56, 511064.92 6121332.38, 511064.98 6121332.2, 511065 6121332]]]

3. Niūriaspalvis auksavabalis

Pavadinimas	Niūriaspalvis auksavabalis
Lot. pavadinimas	*Osmoderma barnabita*
Įtraukta į sąrašus	Berno konvencija (II), Buveinių direktyva (II), Buveinių direktyva (IV), LR griežtai saugomų gyvūnų, augalų ir grybų rūšių sąrašas, LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (2(V)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))



Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai
1.	2003-07-01	10	Kiti buvimo požymiai (balsai ir kt.)

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[510548 6121546, 510547.98 6121545.8, 510547.92 6121545.62, 510547.83 6121545.44, 510547.71 6121545.29, 510547.56 6121545.17, 510547.38 6121545.08, 510547.2 6121545.02, 510547 6121545, 510546.8 6121545.02, 510546.62 6121545.08, 510546.44 6121545.17, 510546.29 6121545.29, 510546.17 6121545.44, 510546.08 6121545.62, 510546.02 6121545.8, 510546 6121546, 510546.02 6121546.2, 510546.08 6121546.38, 510546.17 6121546.56, 510546.29 6121546.71, 510546.44 6121546.83, 510546.62 6121546.92, 510546.8 6121546.98, 510547 6121547, 510547.2 6121546.98, 510547.38 6121546.92, 510547.56 6121546.83, 510547.71 6121546.71, 510547.83 6121546.56, 510547.92 6121546.38, 510547.98 6121546.2, 510548 6121546]]]

4. Juodasis gandras

Pavadinimas	Juodasis gandras
Lot. pavadinimas	*Ciconia nigra*
Įtraukta į sąrašus	AEWA susitarimas (I), Berno konvencija (II), Bonos konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Paukščių direktyva (I), Lietuvos raudonosios knygos sąrašas (1992) (3(R)), Lietuvos TSR raudonosios knygos sąrašas (1984), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (2(V)), Lietuvos raudonosios knygos sąrašas (2021) (Grėsmingos būklės (EN))

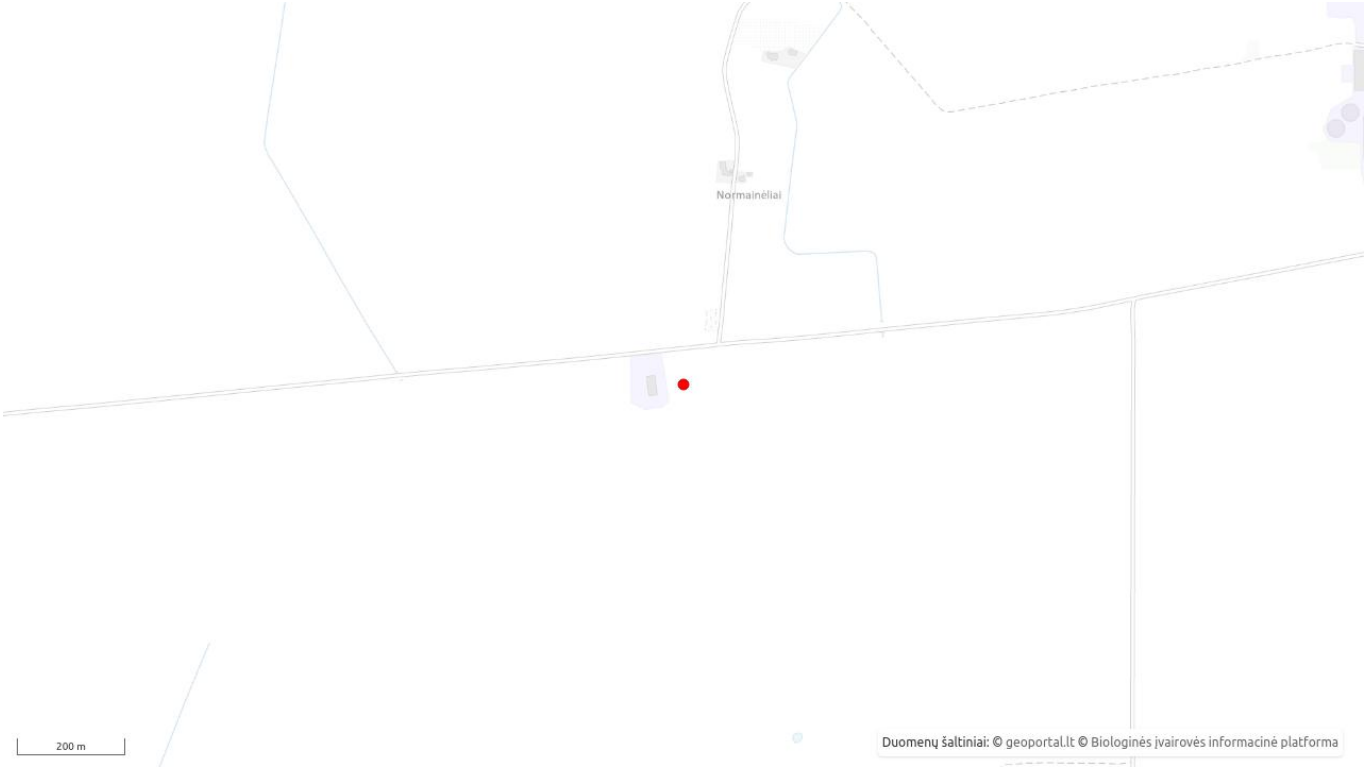


Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	1997-07-20	1	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	-
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[511846.21 6121583.09, 511846.19 6121582.89, 511846.14 6121582.7, 511846.04 6121582.53, 511845.92 6121582.38, 511845.77 6121582.26, 511845.6 6121582.16, 511845.41 6121582.11, 511845.21 6121582.09, 511845.02 6121582.11, 511844.83 6121582.16, 511844.66 6121582.26, 511844.51 6121582.38, 511844.38 6121582.53, 511844.29 6121582.7, 511844.23 6121582.89, 511844.21 6121583.09, 511844.23 6121583.28, 511844.29 6121583.47, 511844.38 6121583.64, 511844.51 6121583.79, 511844.66 6121583.92, 511844.83 6121584.01, 511845.02 6121584.07, 511845.21 6121584.09, 511845.41 6121584.07, 511845.6 6121584.01, 511845.77 6121583.92, 511845.92 6121583.79, 511846.04 6121583.64, 511846.14 6121583.47, 511846.19 6121583.28, 511846.21 6121583.09]]]				
2.	1997-06-05	1	-	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[509220.84 6117881.28, 509220.83 6117881.08, 509220.77 6117880.89, 509220.68 6117880.72, 509220.55 6117880.57, 509220.4 6117880.45, 509220.23 6117880.35, 509220.04 6117880.3, 509219.84 6117880.28, 509219.65 6117880.3, 509219.46 6117880.35, 509219.29 6117880.45, 509219.14 6117880.57, 509219.01 6117880.72, 509218.92 6117880.89, 509218.86 6117881.08, 509218.84 6117881.28, 509218.86 6117881.47, 509218.92 6117881.66, 509219.01 6117881.83, 509219.14 6117881.98, 509219.29 6117882.11, 509219.46 6117882.2, 509219.65 6117882.26, 509219.84 6117882.28, 509220.04 6117882.26, 509220.23 6117882.2, 509220.4 6117882.11, 509220.55 6117881.98, 509220.68 6117881.83, 509220.77 6117881.66, 509220.83 6117881.47, 509220.84 6117881.28]]]				

5. Paprastasis pelėsakalis

Pavadinimas	Paprastasis pelėsakalis
Lot. pavadinimas	*Falco tinnunculus*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Lietuvos raudonosios knygos sąrašas (1992) (4(I)), Lietuvos TSR raudonosios knygos sąrašas (1984), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (2(V)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))



Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Vystymosi stadija
1.	1997-07-20	1	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513744.68 6121282.26, 513744.66 6121282.06, 513744.61 6121281.87, 513744.51 6121281.7, 513744.39 6121281.55, 513744.24 6121281.42, 513744.07 6121281.33, 513743.88 6121281.27, 513743.68 6121281.26, 513743.49 6121281.27, 513743.3 6121281.33, 513743.13 6121281.42, 513742.98 6121281.55, 513742.85 6121281.7, 513742.76 6121281.87, 513742.7 6121282.06, 513742.68 6121282.26, 513742.7 6121282.45, 513742.76 6121282.64, 513742.85 6121282.81, 513742.98 6121282.96, 513743.13 6121283.09, 513743.3 6121283.18, 513743.49 6121283.24, 513743.68 6121283.26, 513743.88 6121283.24, 513744.07 6121283.18, 513744.24 6121283.09, 513744.39 6121282.96, 513744.51 6121282.81, 513744.61 6121282.64, 513744.66 6121282.45, 513744.68 6121282.26]]]

6. Mažasis erelis rėksnys

Pavadinimas	Mažasis erelis rėksnys
Lot. pavadinimas	*Clanga pomarina*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Paukščių direktyva (I), Lietuvos raudonosios knygos sąrašas (1992) (3(R)), Lietuvos TSR raudonosios knygos sąrašas (1984), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (3(R)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))

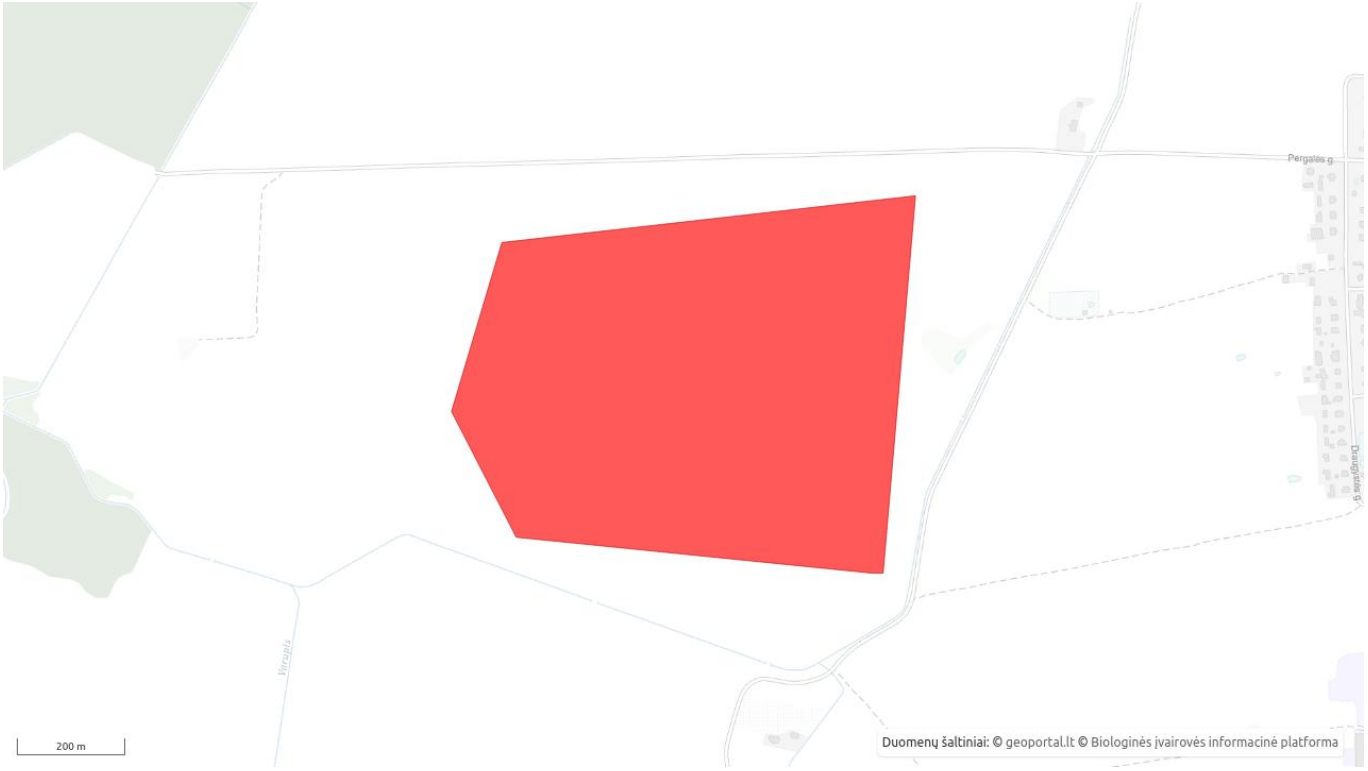


Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	1999-06-19	1	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	-
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[505758.58 6110600.85, 505758.56 6110600.66, 505758.5 6110600.47, 505758.41 6110600.3, 505758.29 6110600.15, 505758.14 6110600.02, 505757.96 6110599.93, 505757.78 6110599.87, 505757.58 6110599.85, 505757.39 6110599.87, 505757.2 6110599.93, 505757.02 6110600.02, 505756.87 6110600.15, 505756.75 6110600.3, 505756.66 6110600.47, 505756.6 6110600.66, 505756.58 6110600.85, 505756.6 6110601.05, 505756.66 6110601.23, 505756.75 6110601.41, 505756.87 6110601.56, 505757.02 6110601.68, 505757.2 6110601.78, 505757.39 6110601.83, 505757.58 6110601.85, 505757.78 6110601.83, 505757.96 6110601.78, 505758.14 6110601.68, 505758.29 6110601.56, 505758.41 6110601.41, 505758.5 6110601.23, 505758.56 6110601.05, 505758.58 6110600.85]]]				
2.	1999-06-19	1	-	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[503639.26 6110380.22, 503639.24 6110380.03, 503639.19 6110379.84, 503639.1 6110379.67, 503638.97 6110379.52, 503638.82 6110379.39, 503638.65 6110379.3, 503638.46 6110379.24, 503638.26 6110379.22, 503638.07 6110379.24, 503637.88 6110379.3, 503637.71 6110379.39, 503637.56 6110379.52, 503637.43 6110379.67, 503637.34 6110379.84, 503637.28 6110380.03, 503637.26 6110380.22, 503637.28 6110380.42, 503637.34 6110380.61, 503637.43 6110380.78, 503637.56 6110380.93, 503637.71 6110381.05, 503637.88 6110381.15, 503638.07 6110381.2, 503638.26 6110381.22, 503638.46 6110381.2, 503638.65 6110381.15, 503638.82 6110381.05, 503638.97 6110380.93, 503639.1 6110380.78, 503639.19 6110380.61, 503639.24 6110380.42, 503639.26 6110380.22]]]				
3.	1997-06-05	1	-	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[509588.45 6118637.59, 509588.43 6118637.39, 509588.37 6118637.2, 509588.28 6118637.03, 509588.16 6118636.88, 509588 6118636.76, 509587.83 6118636.66, 509587.64 6118636.61, 509587.45 6118636.59, 509587.25 6118636.61, 509587.07 6118636.66, 509586.89 6118636.76, 509586.74 6118636.88, 509586.62 6118637.03, 509586.52 6118637.2, 509586.47 6118637.39, 509586.45 6118637.59, 509586.47 6118637.78, 509586.52 6118637.97, 509586.62 6118638.14, 509586.74 6118638.29, 509586.89 6118638.42, 509587.07 6118638.51, 509587.25 6118638.57, 509587.45 6118638.59, 509587.64 6118638.57, 509587.83 6118638.51, 509588 6118638.42, 509588.16 6118638.29, 509588.28 6118638.14, 509588.37 6118637.97, 509588.43 6118637.78, 509588.45 6118637.59]]]				

7. Pievinė lingė

Pavadinimas	Pievinė lingė
Lot. pavadinimas	*Circus pygargus*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Paukščių direktyva (I), Lietuvos raudonosios knygos sąrašas (1992) (3(R)), Lietuvos TSR raudonosios knygos sąrašas (1984), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (2(V)), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))



Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2013-06-29	1	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[514107.7 6122191.96, 514087.85 6122191.96, 513433.01 6122258.11, 513313.95 6122489.62, 513406.55 6122800.5, 514167.23 6122886.49, 514107.7 6122191.96]]]

8. Paprastoji griežlė

Pavadinimas	Paprastoji griežlė
Lot. pavadinimas	*Crex crex*
Įtraukta į sąrašus	AEWA susitarimas (I), Berno konvencija (II), Bonos konvencija (II), Paukščių direktyva (I), Lietuvos raudonosios knygos sąrašas (1992) (4(I)), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (5(Rs)), Lietuvos raudonosios knygos sąrašas (2021) (Arti grėsmės esantys (NT))



Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2024-05-27	1	Kiti buvimo požymiai (balsai ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512492.03 6116732.29, 512492.01 6116732.09, 512491.96 6116731.91, 512491.86 6116731.73, 512491.74 6116731.58, 512491.59 6116731.46, 512491.41 6116731.36, 512491.23 6116731.31, 512491.03 6116731.29, 512490.84 6116731.31, 512490.65 6116731.36, 512490.48 6116731.46, 512490.33 6116731.58, 512490.2 6116731.73, 512490.11 6116731.91, 512490.05 6116732.09, 512490.03 6116732.29, 512490.05 6116732.48, 512490.11 6116732.67, 512490.2 6116732.84, 512490.33 6116732.99, 512490.48 6116733.12, 512490.65 6116733.21, 512490.84 6116733.27, 512491.03 6116733.29, 512491.23 6116733.27, 512491.41 6116733.21, 512491.59 6116733.12, 512491.74 6116732.99, 512491.86 6116732.84, 512491.96 6116732.67, 512492.01 6116732.48, 512492.03 6116732.29]]]

2.	2022-06-27	1	Kiti buvimo požymiai (balsai ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[502531 6111740, 502530.98 6111739.8, 502530.92 6111739.62, 502530.83 6111739.44, 502530.71 6111739.29, 502530.56 6111739.17, 502530.38 6111739.08, 502530.2 6111739.02, 502530 6111739, 502529.8 6111739.02, 502529.62 6111739.08, 502529.44 6111739.17, 502529.29 6111739.29, 502529.17 6111739.44, 502529.08 6111739.62, 502529.02 6111739.8, 502529 6111740, 502529.02 6111740.2, 502529.08 6111740.38, 502529.17 6111740.56, 502529.29 6111740.71, 502529.44 6111740.83, 502529.62 6111740.92, 502529.8 6111740.98, 502530 6111741, 502530.2 6111740.98, 502530.38 6111740.92, 502530.56 6111740.83, 502530.71 6111740.71, 502530.83 6111740.56, 502530.92 6111740.38, 502530.98 6111740.2, 502531 6111740]]]

9. Paprastoji pelėdikė

Pavadinimas	Paprastoji pelėdikė
Lot. pavadinimas	*Athene noctua*
Įtraukta į sąrašus	Berno konvencija (II), CITES konvencija (II), Prekybos reglamentas (A), Lietuvos raudonosios knygos sąrašas (1992) (4(I)), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (4(I)), Lietuvos raudonosios knygos sąrašas (2021) (Kritiškai grėsmingos būklės (CR))



Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2023-06-29	2	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[513560.49 6116264.98, 513560.47 6116264.79, 513560.42 6116264.6, 513560.32 6116264.43, 513560.2 6116264.28, 513560.05 6116264.15, 513559.88 6116264.06, 513559.69 6116264, 513559.49 6116263.98, 513559.3 6116264, 513559.11 6116264.06, 513558.94 6116264.15, 513558.79 6116264.28, 513558.66 6116264.43, 513558.57 6116264.6, 513558.51 6116264.79, 513558.49 6116264.98, 513558.51 6116265.18, 513558.57 6116265.37, 513558.66 6116265.54, 513558.79 6116265.69, 513558.94 6116265.81, 513559.11 6116265.91, 513559.3 6116265.96, 513559.49 6116265.98, 513559.69 6116265.96, 513559.88 6116265.91, 513560.05 6116265.81, 513560.2 6116265.69, 513560.32 6116265.54, 513560.42 6116265.37, 513560.47 6116265.18, 513560.49 6116264.98]]]

10. Paprastoji medšarkė

Pavadinimas	Paprastoji medšarkė
Lot. pavadinimas	*Lanius collurio*
Įtraukta į sąrašus	Paukščių direktyva (I), Berno konvencija (II)



Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2024-06-29	2	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[511422.39 6115761.32, 511422.37 6115761.13, 511422.31 6115760.94, 511422.22 6115760.77, 511422.1 6115760.62, 511421.95 6115760.49, 511421.77 6115760.4, 511421.59 6115760.34, 511421.39 6115760.32, 511421.2 6115760.34, 511421.01 6115760.4, 511420.84 6115760.49, 511420.68 6115760.62, 511420.56 6115760.77, 511420.47 6115760.94, 511420.41 6115761.13, 511420.39 6115761.32, 511420.41 6115761.52, 511420.47 6115761.7, 511420.56 6115761.88, 511420.68 6115762.03, 511420.84 6115762.15, 511421.01 6115762.25, 511421.2 6115762.3, 511421.39 6115762.32, 511421.59 6115762.3, 511421.77 6115762.25, 511421.95 6115762.15, 511422.1 6115762.03, 511422.22 6115761.88, 511422.31 6115761.7, 511422.37 6115761.52, 511422.39 6115761.32]]]				
2.	2024-06-25	1	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[512112.8 6121350.91, 512112.78 6121350.72, 512112.72 6121350.53, 512112.63 6121350.36, 512112.51 6121350.21, 512112.35 6121350.08, 512112.18 6121349.99, 512111.99 6121349.93, 512111.8 6121349.91, 512111.6 6121349.93, 512111.42 6121349.99, 512111.24 6121350.08, 512111.09 6121350.21, 512110.97 6121350.36, 512110.88 6121350.53, 512110.82 6121350.72, 512110.8 6121350.91, 512110.82 6121351.11, 512110.88 6121351.3, 512110.97 6121351.47, 512111.09 6121351.62, 512111.24 6121351.74, 512111.42 6121351.84, 512111.6 6121351.89, 512111.8 6121351.91, 512111.99 6121351.89, 512112.18 6121351.84, 512112.35 6121351.74, 512112.51 6121351.62, 512112.63 6121351.47, 512112.72 6121351.3, 512112.78 6121351.11, 512112.8 6121350.91]]]				
3.	2024-06-25	2	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[512623.97 6119457.91, 512623.95 6119457.71, 512623.89 6119457.52, 512623.8 6119457.35, 512623.67 6119457.2, 512623.52 6119457.07, 512623.35 6119456.98, 512623.16 6119456.92, 512622.97 6119456.91, 512622.77 6119456.92, 512622.58 6119456.98, 512622.41 6119457.07, 512622.26 6119457.2, 512622.13 6119457.35, 512622.04 6119457.52, 512621.99 6119457.71, 512621.97 6119457.91, 512621.99 6119458.1, 512622.04 6119458.29, 512622.13 6119458.46, 512622.26 6119458.61, 512622.41 6119458.74, 512622.58 6119458.83, 512622.77 6119458.89, 512622.97 6119458.91, 512623.16 6119458.89, 512623.35 6119458.83, 512623.52 6119458.74, 512623.67 6119458.61, 512623.8 6119458.46, 512623.89 6119458.29, 512623.95 6119458.1, 512623.97 6119457.91]]]				
4.	2024-06-25	1	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[513138.45 6118796.69, 513138.43 6118796.49, 513138.38 6118796.31, 513138.28 6118796.13, 513138.16 6118795.98, 513138.01 6118795.86, 513137.84 6118795.76, 513137.65 6118795.71, 513137.45 6118795.69, 513137.26 6118795.71, 513137.07 6118795.76, 513136.9 6118795.86, 513136.75 6118795.98, 513136.62 6118796.13, 513136.53 6118796.31, 513136.47 6118796.49, 513136.45 6118796.69, 513136.47 6118796.88, 513136.53 6118797.07, 513136.62 6118797.24, 513136.75 6118797.4, 513136.9 6118797.52, 513137.07 6118797.61, 513137.26 6118797.67, 513137.45 6118797.69, 513137.65 6118797.67, 513137.84 6118797.61, 513138.01 6118797.52, 513138.16 6118797.4, 513138.28 6118797.24, 513138.38 6118797.07, 513138.43 6118796.88, 513138.45 6118796.69]]]				
5.	2024-06-04	1	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[510071.16 6115270.39, 510071.14 6115270.2, 510071.09 6115270.01, 510070.99 6115269.84, 510070.87 6115269.69, 510070.72 6115269.56, 510070.54 6115269.47, 510070.36 6115269.41, 510070.16 6115269.39, 510069.97 6115269.41, 510069.78 6115269.47, 510069.61 6115269.56, 510069.45 6115269.69, 510069.33 6115269.84, 510069.24 6115270.01, 510069.18 6115270.2, 510069.16 6115270.39, 510069.18 6115270.59, 510069.24 6115270.78, 510069.33 6115270.95, 510069.45 6115271.1, 510069.61 6115271.23, 510069.78 6115271.32, 510069.97				

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija

6115271.38, 510070.16 6115271.39, 510070.36 6115271.38, 510070.54 6115271.32, 510070.72 6115271.23, 510070.87 6115271.1, 510070.99 6115270.95, 510071.09 6115270.78, 510071.14 6115270.59, 510071.16 6115270.39]]]

6.	2022-06-27	2	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[504894 6112264, 504893.98 6112263.8, 504893.92 6112263.62, 504893.83 6112263.44, 504893.71 6112263.29, 504893.56 6112263.17, 504893.38 6112263.08, 504893.2 6112263.02, 504893 6112263, 504892.8 6112263.02, 504892.62 6112263.08, 504892.44 6112263.17, 504892.29 6112263.29, 504892.17 6112263.44, 504892.08 6112263.62, 504892.02 6112263.8, 504892 6112264, 504892.02 6112264.2, 504892.08 6112264.38, 504892.17 6112264.56, 504892.29 6112264.71, 504892.44 6112264.83, 504892.62 6112264.92, 504892.8 6112264.98, 504893 6112265, 504893.2 6112264.98, 504893.38 6112264.92, 504893.56 6112264.83, 504893.71 6112264.71, 504893.83 6112264.56, 504893.92 6112264.38, 504893.98 6112264.2, 504894 6112264]]]

7.	2022-06-27	2	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[502571 6111785, 502570.98 6111784.8, 502570.92 6111784.62, 502570.83 6111784.44, 502570.71 6111784.29, 502570.56 6111784.17, 502570.38 6111784.08, 502570.2 6111784.02, 502570 6111784, 502569.8 6111784.02, 502569.62 6111784.08, 502569.44 6111784.17, 502569.29 6111784.29, 502569.17 6111784.44, 502569.08 6111784.62, 502569.02 6111784.8, 502569 6111785, 502569.02 6111785.2, 502569.08 6111785.38, 502569.17 6111785.56, 502569.29 6111785.71, 502569.44 6111785.83, 502569.62 6111785.92, 502569.8 6111785.98, 502570 6111786, 502570.2 6111785.98, 502570.38 6111785.92, 502570.56 6111785.83, 502570.71 6111785.71, 502570.83 6111785.56, 502570.92 6111785.38, 502570.98 6111785.2, 502571 6111785]]]

8.	2022-06-24	2	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[504668 6114100, 504667.98 6114099.8, 504667.92 6114099.62, 504667.83 6114099.44, 504667.71 6114099.29, 504667.56 6114099.17, 504667.38 6114099.08, 504667.2 6114099.02, 504667 6114099, 504666.8 6114099.02, 504666.62 6114099.08, 504666.44 6114099.17, 504666.29 6114099.29, 504666.17 6114099.44, 504666.08 6114099.62, 504666.02 6114099.8, 504666 6114100, 504666.02 6114100.2, 504666.08 6114100.38, 504666.17 6114100.56, 504666.29 6114100.71, 504666.44 6114100.83, 504666.62 6114100.92, 504666.8 6114100.98, 504667 6114101, 504667.2 6114100.98, 504667.38 6114100.92, 504667.56 6114100.83, 504667.71 6114100.71, 504667.83 6114100.56, 504667.92 6114100.38, 504667.98 6114100.2, 504668 6114100]]]

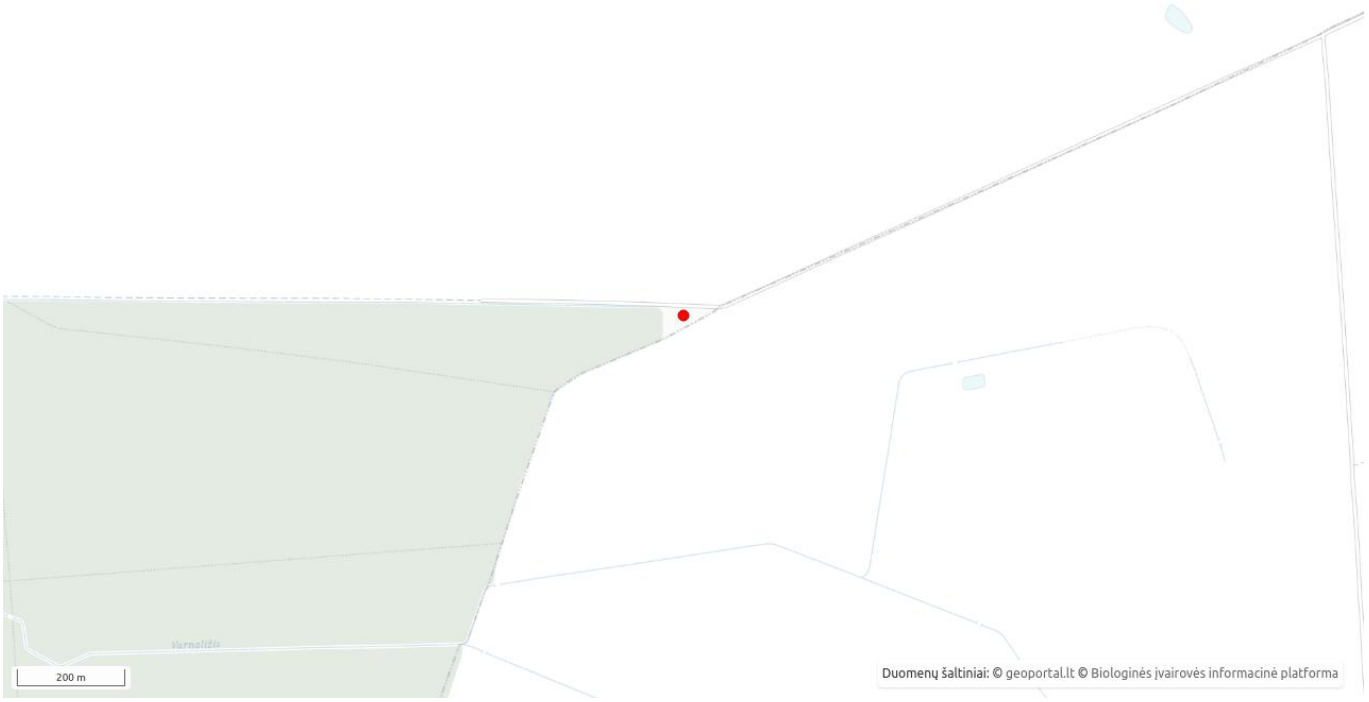
9.	2022-06-24	1	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[506496 6113305, 506495.98 6113304.8, 506495.92 6113304.62, 506495.83 6113304.44, 506495.71 6113304.29, 506495.56 6113304.17, 506495.38 6113304.08, 506495.2 6113304.02, 506495 6113304, 506494.8 6113304.02, 506494.62 6113304.08, 506494.44 6113304.17, 506494.29 6113304.29, 506494.17 6113304.44, 506494.08 6113304.62, 506494.02 6113304.8, 506494 6113305, 506494.02 6113305.2, 506494.08 6113305.38, 506494.17 6113305.56, 506494.29 6113305.71, 506494.44 6113305.83, 506494.62 6113305.92, 506494.8 6113305.98, 506495 6113306, 506495.2 6113305.98, 506495.38 6113305.92, 506495.56 6113305.83, 506495.71 6113305.71, 506495.83 6113305.56, 506495.92 6113305.38, 506495.98 6113305.2, 506496 6113305]]]

11. Sodinė nendrinukė

Pavadinimas	Sodinė nendrinukė
Lot. pavadinimas	*Acrocephalus dumetorum*
Įtraukta į sąrašus	Bonos konvencija (II), Berno konvencija (II)



Stebėjimų duomenys:

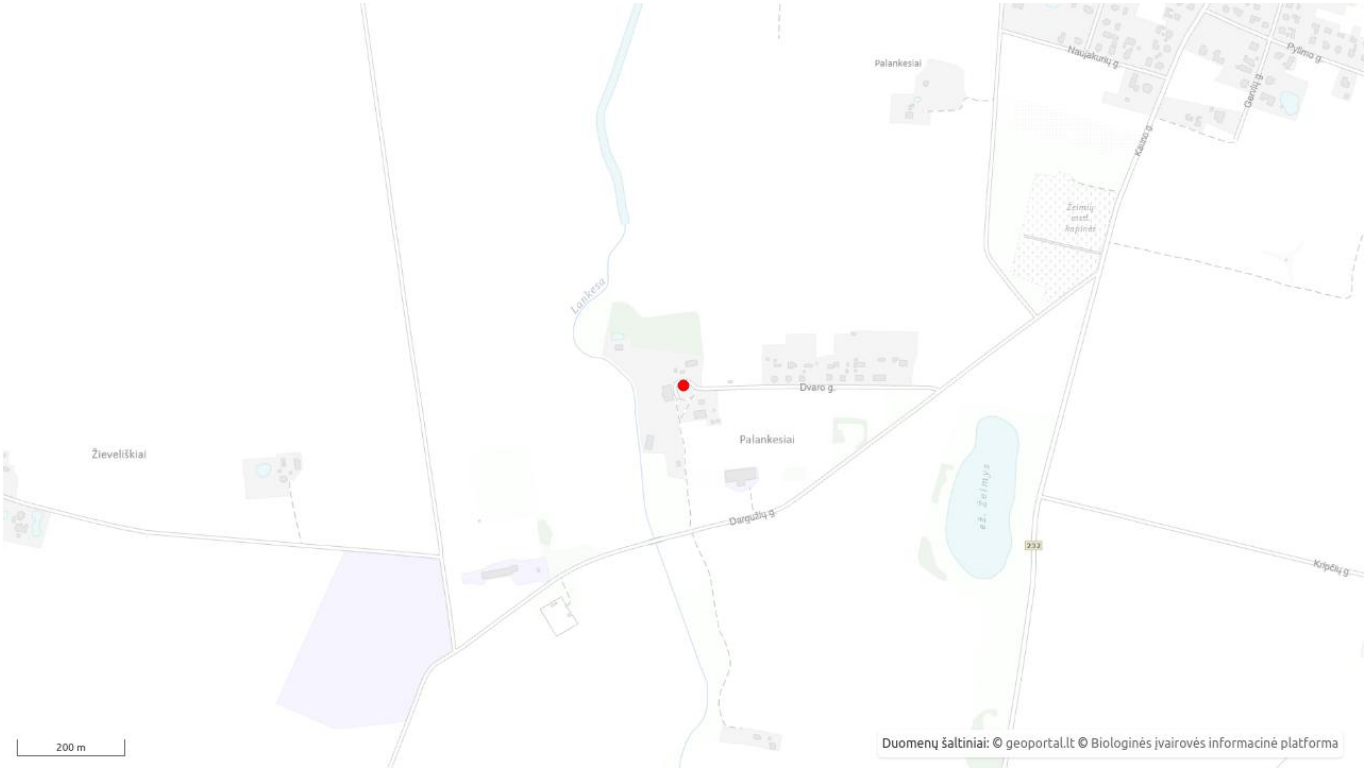
Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2022-07-02	1	Kiti buvimo požymiai (balsai ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[502216 6112537, 502215.98 6112536.8, 502215.92 6112536.62, 502215.83 6112536.44, 502215.71 6112536.29, 502215.56 6112536.17, 502215.38 6112536.08, 502215.2 6112536.02, 502215 6112536, 502214.8 6112536.02, 502214.62 6112536.08, 502214.44 6112536.17, 502214.29 6112536.29, 502214.17 6112536.44, 502214.08 6112536.62, 502214.02 6112536.8, 502214 6112537, 502214.02 6112537.2, 502214.08 6112537.38, 502214.17 6112537.56, 502214.29 6112537.71, 502214.44 6112537.83, 502214.62 6112537.92, 502214.8 6112537.98, 502215 6112538, 502215.2 6112537.98, 502215.38 6112537.92, 502215.56 6112537.83, 502215.71 6112537.71, 502215.83 6112537.56, 502215.92 6112537.38, 502215.98 6112537.2, 502216 6112537]]]

12. Dvispalvis plikšnys

Pavadinimas	Dvispalvis plikšnys
Lot. pavadinimas	*Vespertilio murinus*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), Buveinių direktyva (IV), Lietuvos raudonosios knygos sąrašas (1992) (4(I)), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (3(R)), Lietuvos raudonosios knygos sąrašas (2021) (Trūksta duomenų (DD))



Stebėjimų duomenys:

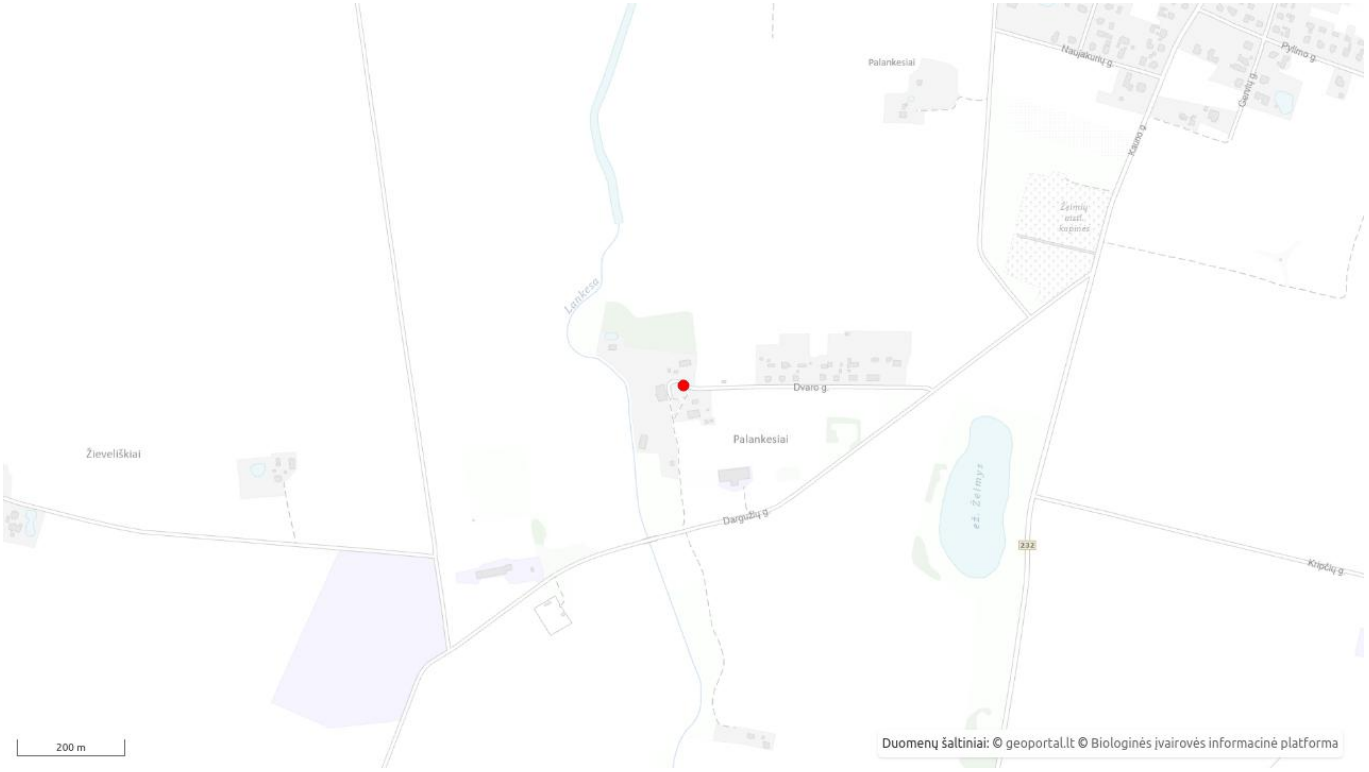
Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2015-07-23	2	Kiti buvimo požymiai (balsai ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512805.63 6114826.33, 512805.61 6114826.13, 512805.55 6114825.94, 512805.46 6114825.77, 512805.34 6114825.62, 512805.18 6114825.49, 512805.01 6114825.4, 512804.82 6114825.35, 512804.63 6114825.33, 512804.43 6114825.35, 512804.25 6114825.4, 512804.07 6114825.49, 512803.92 6114825.62, 512803.8 6114825.77, 512803.7 6114825.94, 512803.65 6114826.13, 512803.63 6114826.33, 512803.65 6114826.52, 512803.7 6114826.71, 512803.8 6114826.88, 512803.92 6114827.03, 512804.07 6114827.16, 512804.25 6114827.25, 512804.43 6114827.31, 512804.63 6114827.33, 512804.82 6114827.31, 512805.01 6114827.25, 512805.18 6114827.16, 512805.34 6114827.03, 512805.46 6114826.88, 512805.55 6114826.71, 512805.61 6114826.52, 512805.63 6114826.33]]]

13. Vėlyvasis šikšnys

Pavadinimas	Vėlyvasis šikšnys
Lot. pavadinimas	*Eptesicus serotinus*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), Buveinių direktyva (IV), Lietuvos raudonosios knygos sąrašas (1992) (4(I)), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2007) (5(Rs)), Lietuvos raudonosios knygos sąrašas (2021) (Nekeliantys susirūpinimo (LC))



Stebėjimų duomenys:

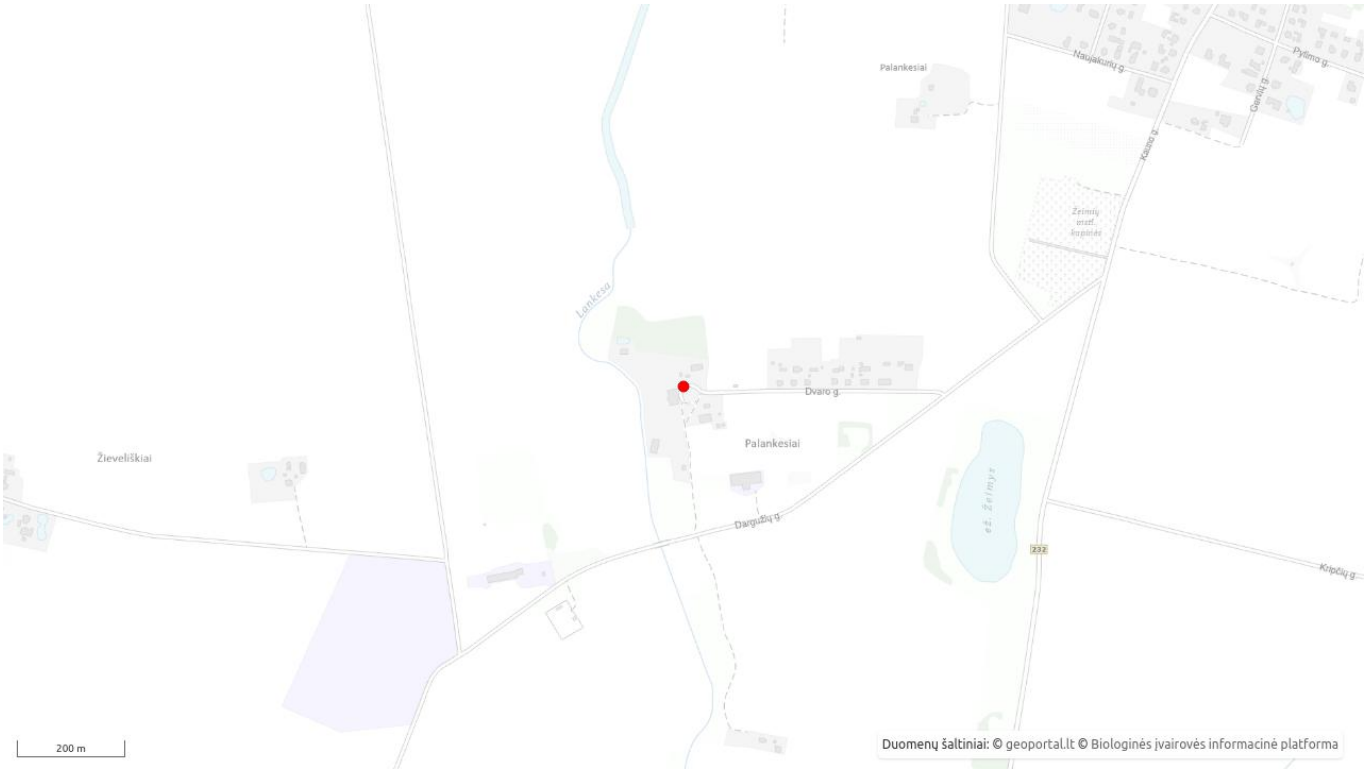
Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2015-07-23	2	Kiti buvimo požymiai (balsai ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512816.57 6114825.85, 512816.55 6114825.66, 512816.5 6114825.47, 512816.4 6114825.3, 512816.28 6114825.15, 512816.13 6114825.02, 512815.95 6114824.93, 512815.77 6114824.87, 512815.57 6114824.85, 512815.38 6114824.87, 512815.19 6114824.93, 512815.02 6114825.02, 512814.86 6114825.15, 512814.74 6114825.3, 512814.65 6114825.47, 512814.59 6114825.66, 512814.57 6114825.85, 512814.59 6114826.05, 512814.65 6114826.24, 512814.74 6114826.41, 512814.86 6114826.56, 512815.02 6114826.69, 512815.19 6114826.78, 512815.38 6114826.83, 512815.57 6114826.85, 512815.77 6114826.83, 512815.95 6114826.78, 512816.13 6114826.69, 512816.28 6114826.56, 512816.4 6114826.41, 512816.5 6114826.24, 512816.55 6114826.05, 512816.57 6114825.85]]]

14. Šikšniukas nykštukas

Pavadinimas	Šikšniukas nykštukas
Lot. pavadinimas	*Pipistrellus pipistrellus*
Įtraukta į sąrašus	Berno konvencija (III), Bonos konvencija (II), Buveinių direktyva (IV), Lietuvos raudonosios knygos sąrašas (1992) (4(I)), Lietuvos raudonosios knygos sąrašas (2007) (4(I))



Stebėjimų duomenys:

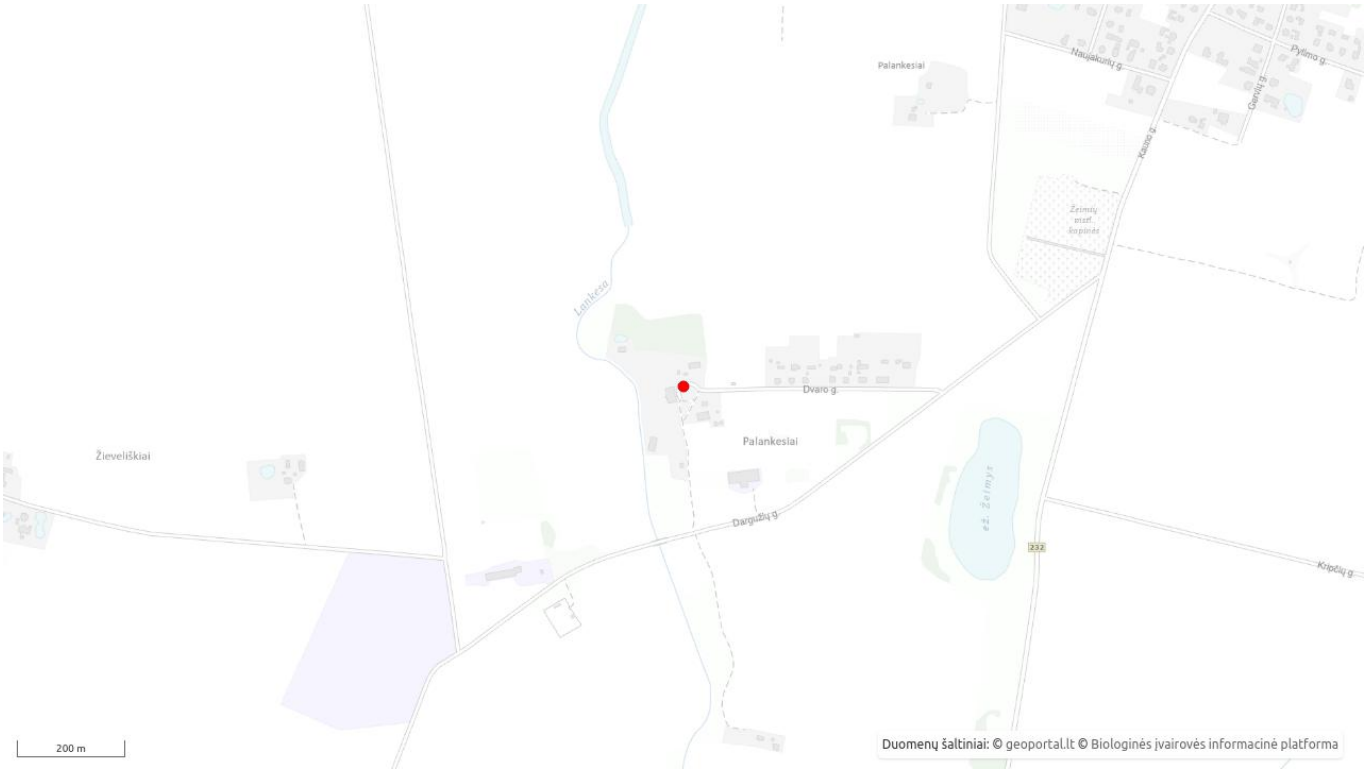
Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2015-07-23	1	Kiti buvimo požymiai (balsai ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512795.44 6114831.93, 512795.42 6114831.74, 512795.36 6114831.55, 512795.27 6114831.38, 512795.14 6114831.22, 512794.99 6114831.1, 512794.82 6114831.01, 512794.63 6114830.95, 512794.44 6114830.93, 512794.24 6114830.95, 512794.05 6114831.01, 512793.88 6114831.1, 512793.73 6114831.22, 512793.6 6114831.38, 512793.51 6114831.55, 512793.45 6114831.74, 512793.44 6114831.93, 512793.45 6114832.13, 512793.51 6114832.31, 512793.6 6114832.49, 512793.73 6114832.64, 512793.88 6114832.76, 512794.05 6114832.86, 512794.24 6114832.91, 512794.44 6114832.93, 512794.63 6114832.91, 512794.82 6114832.86, 512794.99 6114832.76, 512795.14 6114832.64, 512795.27 6114832.49, 512795.36 6114832.31, 512795.42 6114832.13, 512795.44 6114831.93]]]

15. Rudasis nakviša

Pavadinimas	Rudasis nakviša
Lot. pavadinimas	*Nyctalus noctula*
Įtraukta į sąrašus	Berno konvencija (II), Bonos konvencija (II), Buveinių direktyva (IV), Lietuvos raudonosios knygos sąrašas (1992) (4(I)), Lietuvos raudonosios knygos sąrašas (2007) (5(Rs))



Stebėjimų duomenys:

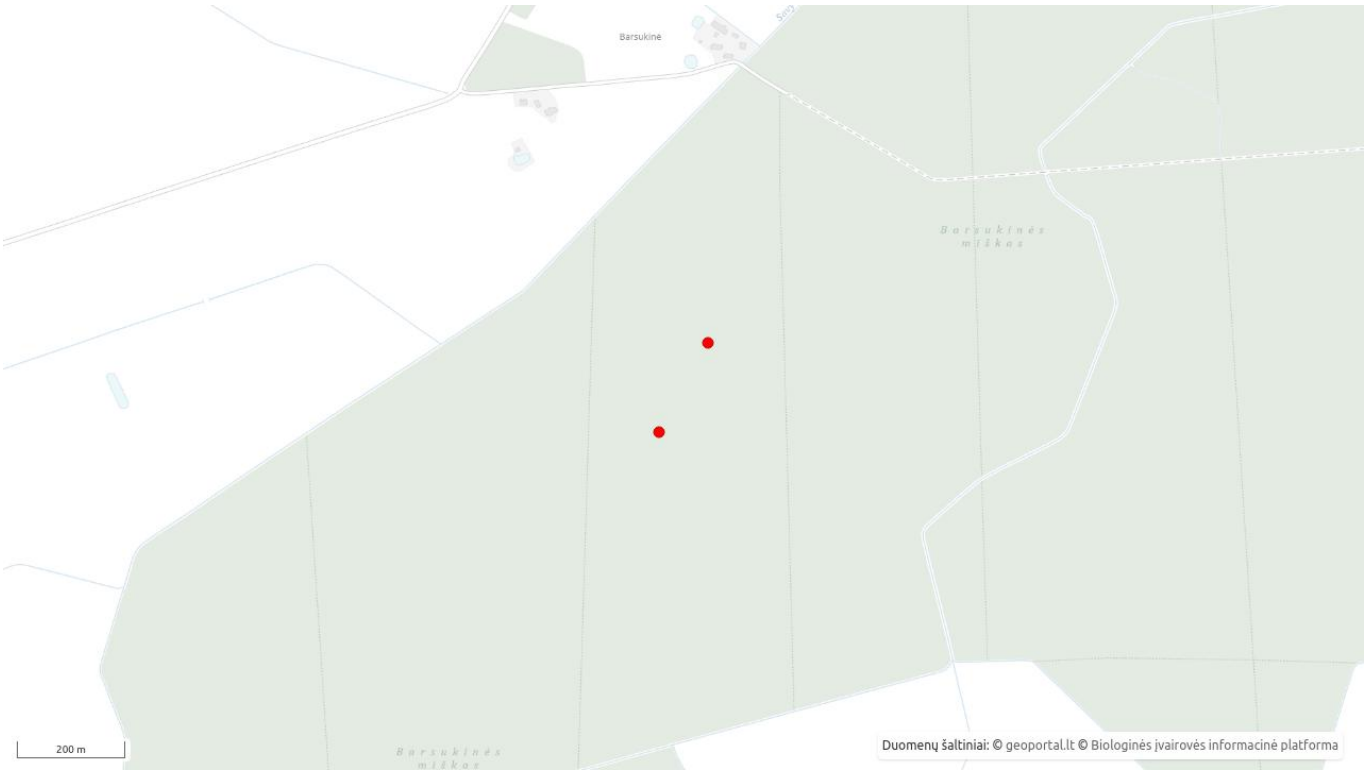
Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2015-07-23	2	Kiti buvimo požymiai (balsai ir kt.)	Suaugęs individas

Koordinatės (LKS-94 koordinačių sistema):

Poligonas [[[512799.01 6114828.13, 512798.99 6114827.94, 512798.94 6114827.75, 512798.85 6114827.57, 512798.72 6114827.42, 512798.57 6114827.3, 512798.4 6114827.21, 512798.21 6114827.15, 512798.01 6114827.13, 512797.82 6114827.15, 512797.63 6114827.21, 512797.46 6114827.3, 512797.31 6114827.42, 512797.18 6114827.57, 512797.09 6114827.75, 512797.03 6114827.94, 512797.01 6114828.13, 512797.03 6114828.33, 512797.09 6114828.51, 512797.18 6114828.69, 512797.31 6114828.84, 512797.46 6114828.96, 512797.63 6114829.05, 512797.82 6114829.11, 512798.01 6114829.13, 512798.21 6114829.11, 512798.4 6114829.05, 512798.57 6114828.96, 512798.72 6114828.84, 512798.85 6114828.69, 512798.94 6114828.51, 512798.99 6114828.33, 512799.01 6114828.13]]]

16. Lazdyninė miegapelė

Pavadinimas	Lazdyninė miegapelė
Lot. pavadinimas	*Muscardinus avellanarius*
Įtraukta į sąrašus	Berno konvencija (III), Buveinių direktyva (IV)



Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	1992-09-05	1	Kiti buvimo požymiai (balsai ir kt.)	-
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[506626.71 6112827.79, 506626.69 6112827.6, 506626.63 6112827.41, 506626.54 6112827.24, 506626.42 6112827.09, 506626.27 6112826.96, 506626.09 6112826.87, 506625.91 6112826.81, 506625.71 6112826.79, 506625.52 6112826.81, 506625.33 6112826.87, 506625.16 6112826.96, 506625 6112827.09, 506624.88 6112827.24, 506624.79 6112827.41, 506624.73 6112827.6, 506624.71 6112827.79, 506624.73 6112827.99, 506624.79 6112828.18, 506624.88 6112828.35, 506625 6112828.5, 506625.16 6112828.62, 506625.33 6112828.72, 506625.52 6112828.77, 506625.71 6112828.79, 506625.91 6112828.77, 506626.09 6112828.72, 506626.27 6112828.62, 506626.42 6112828.5, 506626.54 6112828.35, 506626.63 6112828.18, 506626.69 6112827.99, 506626.71 6112827.79]]]				
2.	1965-05-15	1	-	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[506538.64 6112663.39, 506538.62 6112663.2, 506538.56 6112663.01, 506538.47 6112662.84, 506538.34 6112662.68, 506538.19 6112662.56, 506538.02 6112662.47, 506537.83 6112662.41, 506537.64 6112662.39, 506537.44 6112662.41, 506537.25 6112662.47, 506537.08 6112662.56, 506536.93 6112662.68, 506536.8 6112662.84, 506536.71 6112663.01, 506536.66 6112663.2, 506536.64 6112663.39, 506536.66 6112663.59, 506536.71 6112663.77, 506536.8 6112663.95, 506536.93 6112664.1, 506537.08 6112664.22, 506537.25 6112664.31, 506537.44 6112664.37, 506537.64 6112664.39, 506537.83 6112664.37, 506538.02 6112664.31, 506538.19 6112664.22, 506538.34 6112664.1, 506538.47 6112663.95, 506538.56 6112663.77, 506538.62 6112663.59, 506538.64 6112663.39]]]				

17. Pilkoji kurapka

Pavadinimas	Pilkoji kurapka
Lot. pavadinimas	*Perdix perdix*
Įtraukta į sąrašus	Berno konvencija (III), Paukščių direktyva (II/1), Paukščių direktyva (III/1), LR saugomų gyvūnų, augalų ir grybų rūšių sąrašas (aktualus), Lietuvos raudonosios knygos sąrašas (2021) (Pažeidžiami (VU))



Stebėjimų duomenys:

Nr.	Stebėjimo data	Gausumas	Veiklos požymiai	Vystymosi stadija
1.	2024-06-25	2	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[513044.66 6119346.48, 513044.65 6119346.29, 513044.59 6119346.1, 513044.5 6119345.93, 513044.37 6119345.78, 513044.22 6119345.65, 513044.05 6119345.56, 513043.86 6119345.5, 513043.66 6119345.48, 513043.47 6119345.5, 513043.28 6119345.56, 513043.11 6119345.65, 513042.96 6119345.78, 513042.83 6119345.93, 513042.74 6119346.1, 513042.68 6119346.29, 513042.66 6119346.48, 513042.68 6119346.68, 513042.74 6119346.87, 513042.83 6119347.04, 513042.96 6119347.19, 513043.11 6119347.32, 513043.28 6119347.41, 513043.47 6119347.47, 513043.66 6119347.48, 513043.86 6119347.47, 513044.05 6119347.41, 513044.22 6119347.32, 513044.37 6119347.19, 513044.5 6119347.04, 513044.59 6119346.87, 513044.65 6119346.68, 513044.66 6119346.48]]]				
2.	2024-05-18	2	Stebėtas gyvas (praskrendantis, besimaitinantis ir kt.)	Suaugęs individas
Koordinatės (LKS-94 koordinačių sistema): **Poligonas** [[[510603.4 6117876.87, 510603.38 6117876.68, 510603.32 6117876.49, 510603.23 6117876.32, 510603.1 6117876.17, 510602.95 6117876.04, 510602.78 6117875.95, 510602.59 6117875.89, 510602.4 6117875.87, 510602.2 6117875.89, 510602.01 6117875.95, 510601.84 6117876.04, 510601.69 6117876.17, 510601.56 6117876.32, 510601.47 6117876.49, 510601.41 6117876.68, 510601.4 6117876.87, 510601.41 6117877.07, 510601.47 6117877.26, 510601.56 6117877.43, 510601.69 6117877.58, 510601.84 6117877.71, 510602.01 6117877.8, 510602.2 6117877.86, 510602.4 6117877.87, 510602.59 6117877.86, 510602.78 6117877.8, 510602.95 6117877.71, 510603.1 6117877.58, 510603.23 6117877.43, 510603.32 6117877.26, 510603.38 6117877.07, 510603.4 6117876.87]]]				

PAUKŠČIŲ IR ŠIKŠNOSPARNIŲ 2022–2023 M. TYRIMŲ, ATLIKTŲ JONAVOS R. SAV. PLANUOJAMO VĖJO ELEKTRINIŲ PARKO TERITORIJOJE, ATASKAITA



Ataskaita parengta remiantis Lietuvos ornitologų draugijos gautu UAB „Infraplanas“ užsakymu

2022–2024 m., Vilnius

Turinys

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ĮVADAS

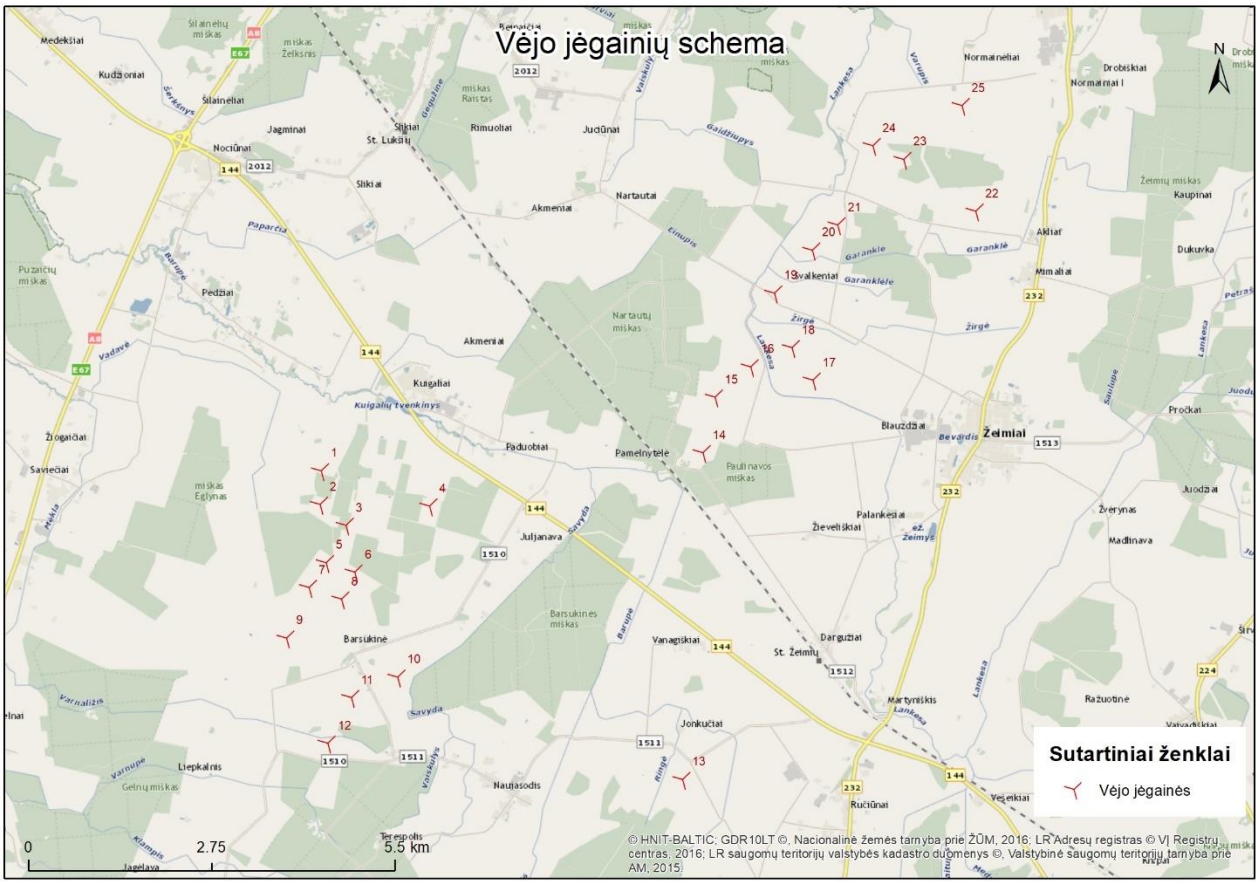
Prasidėjus analizuojamam projektui, užsakovas pateikė pirmines vėjo elektrinių vietas (planuojamas VE skaičius 33 VE), tačiau atlikus pirminę analizę ir įvertinus esminius faktorius (gyvenamą aplinką, saugomas ir „Natura 2000“ teritorijas, kultūros vertybes, biologinę įvairovę bei pirminius ornitologinius ir šiksnosparnių tyrimus) bei pasikonsultavus su užsakovu buvo atsisakyta įrengti didžiausią riziką keliančių VE. 8 VE buvo atmestos dėl šių faktorių:

- Mažo atstumo iki miško;
- VE įgyvendinimo vandens telkinio apsaugos zonoje ir/ar pakrantės apsaugos juostoje.

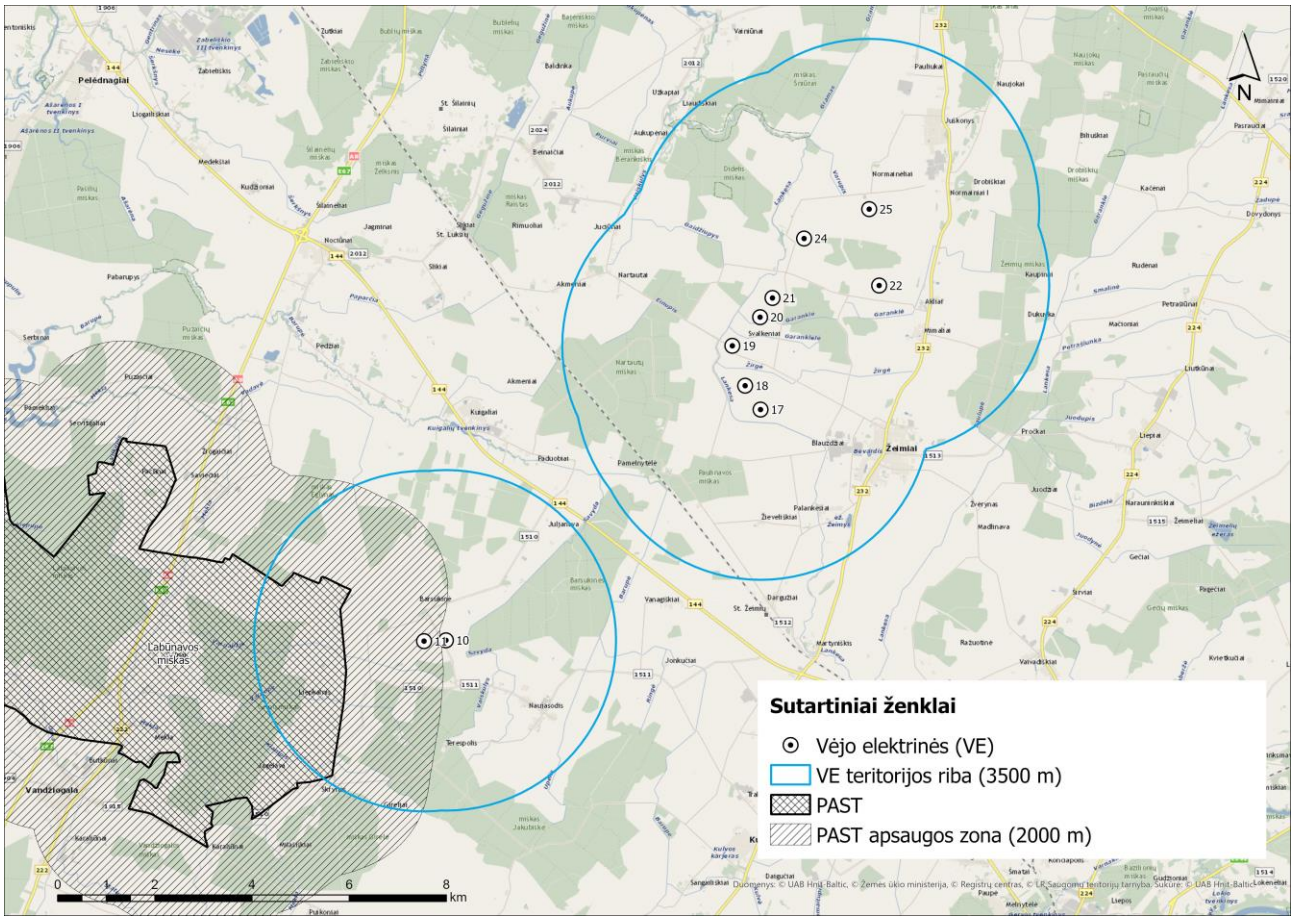
Atmetus 8 VE, PAV ataskaitoje analizuotos 25 VE, kurių vieta PAV ataskaitoje nebuvo koreguojama, t.y. liko viena PŪV vietos alternatyva.
PAV ataskaitos derinimo su subjektais etape, šiai ataskaitai pritarė praktiškai visi PAV subjektai. Nepritarimą išreiškė tik Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos. Atsižvengiant į nepritarimo argumetus veiklos vystytojai atsisakė 15 VE, kurios potencialiai gali daryti žalą saugomoms teritorijoms, paukščiams bei šikšnosparniams. Taip pat likusioms 10 VE numatyta taikyti ir poveikio mažinimo priemones, kurios nurodytos ir detalizuotos ornitologinių tyrimų ataskaitoje.

Paukščių ir šikšnosparnių tyrimai buvo atliekami nuo 2022 m. rugsėjo mėn. iki 2023 m. rugpjūčio mėn. (2023 m. rugsėjo mėn. atlikti papildomi šikšnosparnių migracijos tyrimai, o paukščių lizdų vietos dar buvo tikslinamos ir 2024 metais) planuojamo vėjo elektrinių (toliau – VE) parko teritorijoje, išsidėsčiusioje Jonavos r. sav. Žeimių ir Kulvos seniūnijose.

Paukščių ir šikšnosparnių tyrimai buvo vykdomi siekiant įvertinti galimą planuojamos ūkinės veiklos (PŪV) – 25 iki 280 metrų aukščio vėjo elektrinių (toliau – VE) įrengimo ir eksploatacijos, poveikį paukščiams ir šikšnosparniams. Vėlesniais etapais ir atsisakius statyti dalį VE, tyrimų medžiaga buvo atnaujinta, taip pat buvo panaudoti ir kitų Lietuvos ornitologų draugijos atliktų tyrimų duomenys.



1a) pav. Planuojamų VE išdėstymas teritorijoje pirminių tyrimų metu



1b) pav. Planuojamų VE išdėstymas teritorijoje po patikslinimų

Trumpas situacijos aprašymas

Informacija apie planuojamą ūkinę veiklą ir jos įgyvendinimo vietą.

Planuojamo 10 VE parko teritorija yra išsidėsčiusi Žeimių sen. ir Kulvos sen., Jonavos r. sav., Kauno apskr. Čia suformuotuose sklypuose planuojama statyti 10 vnt. iki 280 metrų aukščio VE.

Trumpas planuojamo VE parko vietovių gamtinės aplinkos aprašymas

VE parkas planuojamas statyti agrariniame kraštovaizdyje, intensyvios mišrios žemdirbystės zonoje, kur vyrauja augalininkystei skirti plotai. Planuojamo VE parko teritorija išsidėsčiusi lygiame reljefe, vyrauja agrarinis kraštovaizdis – nedideli kaimai ir vienkiemiai, žemės ūkio plotai su ariamais laukais ir čia auginamais javais bei kitomis žemės ūkio kultūromis, nedideli fragmentuoti miškų plotai.

Centrinėje planuojamos VE teritorijos dalyje išsidėstę kiek didesni Nartautų ir Barsukinės miškai, likusioje teritorijoje yra nemažai nedidelių miškelių, lauko giraičių. Vyrauja lapuočių medynai, yra mišrių miškų. Piečiau Kuigailių k. esančioje planuojamų VE parko teritorijoje intensyviai vystoma sodininkystė.

Vandens telkinių teritorijoje praktiškai nėra, teka nedideli upeliai: Barupė, Lankesa ir jos melioracijos kanalais paversti intakai – Garanklės bei Žirglės upeliai. Barupės upelis Kugalių kaime patvenktas ir čia yra didžiausias VE parko teritorijoje esantis vandens telkinys – Kuigalių tvenkinys (maždaug 4,5 ha ploto).

Nors kraštovaizdis gana mozaikiškas, dirbami laukai paįvairinti laukų želdiniais ir miškais, paukščių įvairove ir išskirtine ornitologine verte teritorija nepasižymi. Čia daugiausiai aptinkami dažni ir įprasti agrarinio kraštovaizdžio, miškų ir pamiškių paukščiai. Planuojamo VE parko teritorijoje aptiktos retos ir saugomų paukščių rūšys, teritoriją jie naudoja kaip maitinimosi plotus arba lankosi perskridimų metu. Planuojamo VE parko teritorijoje nesiformuoja reguliarios tarptautinės svarbos vandens paukščių sankaupos, kurių apsaugai turi būti skirtas išskirtinis gamtosauginis dėmesys.

Planuojamo VE parko teritorija nėra išskirtinė ir šikšnosparnių įvairovės atžvilgiu.

Paukščių ir šikšnosparnių monitoringo svarba siekiant užtikrinti jų apsaugą PŪV metu

Išsamūs ir standartizuoti paukščių ir šikšnosparnių stebėsenos tyrimai suteikia svarbių žinių apie VE poveikį šioms gyvūnų grupėms. Kadangi VE plėtra didžiausią neigiamą poveikį kelia būtent paukščiams ir šikšnosparniams, tinkamai suplanuotos bei parengtos stebėsenos programos suteikia būtiną informaciją objektyviam tokio poveikio vertinimui tiek įrengiant VE parką, tiek jį eksploatuojant. Būtina sąlyga yra ta, kad išsamūs tyrimai būtų atliekami skirtingais etapais palaipsniui: vertinant PŪV, prieš statybas, statybų metu ir jau eksploatuojant VE parką. Tik žinant pagrindinius parametrus ir situacijos būklę prieš pradedant VE eksploatavimą, galima spręsti apie poveikio reikšmingumą.

1. TYRIMŲ ORGANIZAVIMAS

Tyrimų tikslas – nustatyti ir apžvelgti planuojamo 10 VE parko teritorijoje perinčių, migruojančių, sudarančių sankaupas ir besimaitinančių paukščių ir gyvenančių bei migruojančių šikšnosparnių rūšinę sudėtį, populiacijos gausą ir galimą VE parko poveikį jų populiacijoms.

Tyrimų uždaviniai:

- atlikti paukščių migracijos srautų stebėjimus VE parko teritorijoje;
- atlikti pavasarinių ir rudeninių paukščių sankaupų stebėjimus VE parko teritorijoje;
- įvertinti galimas plėšriųjų paukščių ir juodųjų gandrų perimvietes VE parko teritorijoje ir jai artimoje aplinkoje;
- atlikti plėšriųjų paukščių ir juodųjų gandrų bei kitų VE poveikiui jautrių paukščių stebėjimus VE parko teritorijoje;
- atlikti perinčių paukščių stebėjimus VE parko teritorijoje;
- atlikti šikšnosparnių stebėjimus veisimosi ir migracijų sezono metu VE parko teritorijoje.
- įvertinti VE parko įrengimo grėsmes perintiems, migruojantiems ir besimaitinantiems teritorijoje paukščiams ir šikšnosparniams.

Tyrimų atlikimo laikotarpiai (konkrečios datos nurodomos stebėjimų skyriuose):

	2022 m. mėn. ir dekados							2023 m. mėn. ir dekados																				
Stebėjimai	IX			X			XI	III			IV			V			VI			VII			VIII			IX		
	1	2	3	1	2	3	2	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Paukščių migracijos srautai																												
Šišnosparnių migracija																												
Pavasarinės ir rudeninės paukščių sankaupos																												
Plėšriųjų paukščių ir juodųjų gandrų perimviečių buvimo įvertinimas																												
Plėšrieji paukščiai ir juodieji gandrai																												
Perintys paukščiai																												
Kiti reti/jautrūs VE poveikiui paukščiai																												
Šišnosparniai veisimosi metu																												

Papildomos lizdų vietų paieškos vyko ir 2024 metais.

Atliekant paukščių migracijos ir migruojančių paukščių santalkų bei šikšnosparnių veisimosi ir migracijų metu tyrimus buvo vadovaujamasi projekto „Vėjo energetikos plėtra ir biologinei įvairovei svarbios teritorijos (VENBIS) Nr. EEE-LT03-AM-01-K-01-004[1] rekomendacijomis.

[1] https://www.birdlife.lt/upload/user_uploads/Dokumentai/Venbis_dokumentai/3.1.3_Monitoringo_programos_metodiniai_reikalavimai.pdf

Atliekant plėšriųjų paukščių perėjimo įvertinimą VE parkui artimoje aplinkoje ir plėšriųjų paukščių bei VE jautrių rūšių perskridimų tyrimus buvo vadovaujamasi Europos bendrijos svarbos paukščių rūšių monitoringo metodikomis (L. Raudonikis ir kt., 2016, Vilnius)[2].

Atliekant įprastų agrarinio kraštovaizdžio paukščių taškines apskaitas buvo vadovaujamasi įprastų paukščių gausos stebėsenos metodikomis[3]. Migruojančių paukščių srautų tyrimai atlikti iš numatytų 2-jų taškų rytais po saulėtekio, migruojančių paukščių sankaupų tyrimai atlikti visoje teritorijoje šviesiu paros metu, perinčių paukščių tyrimai atlikti visais paros laikotarpiais visoje teritorijoje, plėšriųjų paukščių ir juodųjų gandrų tyrimai, baltųjų gandrų lizdaviečių apskaita, buveinių vertinimas atliktas šviesiu paros metu visoje teritorijoje, griežlių ir kitų jautrių VE poveikiui rūšių specializuotos apskaitos atliktos visoje teritorijoje vakare ir naktį, šikšnosparnių tyrimai veisimosi ir migracijų metu atlikti numatytuose 19-oje taškų vakare ir naktį (tamsiu paros metu).
Planuojamo VE parko teritorijoje ir apylinkėse paukščių tyrimai buvo atliekami apytiksliai 490 val., o šikšnosparnių tyrimai apėmė apie 250 val.

2. TYRIMŲ VIETOS

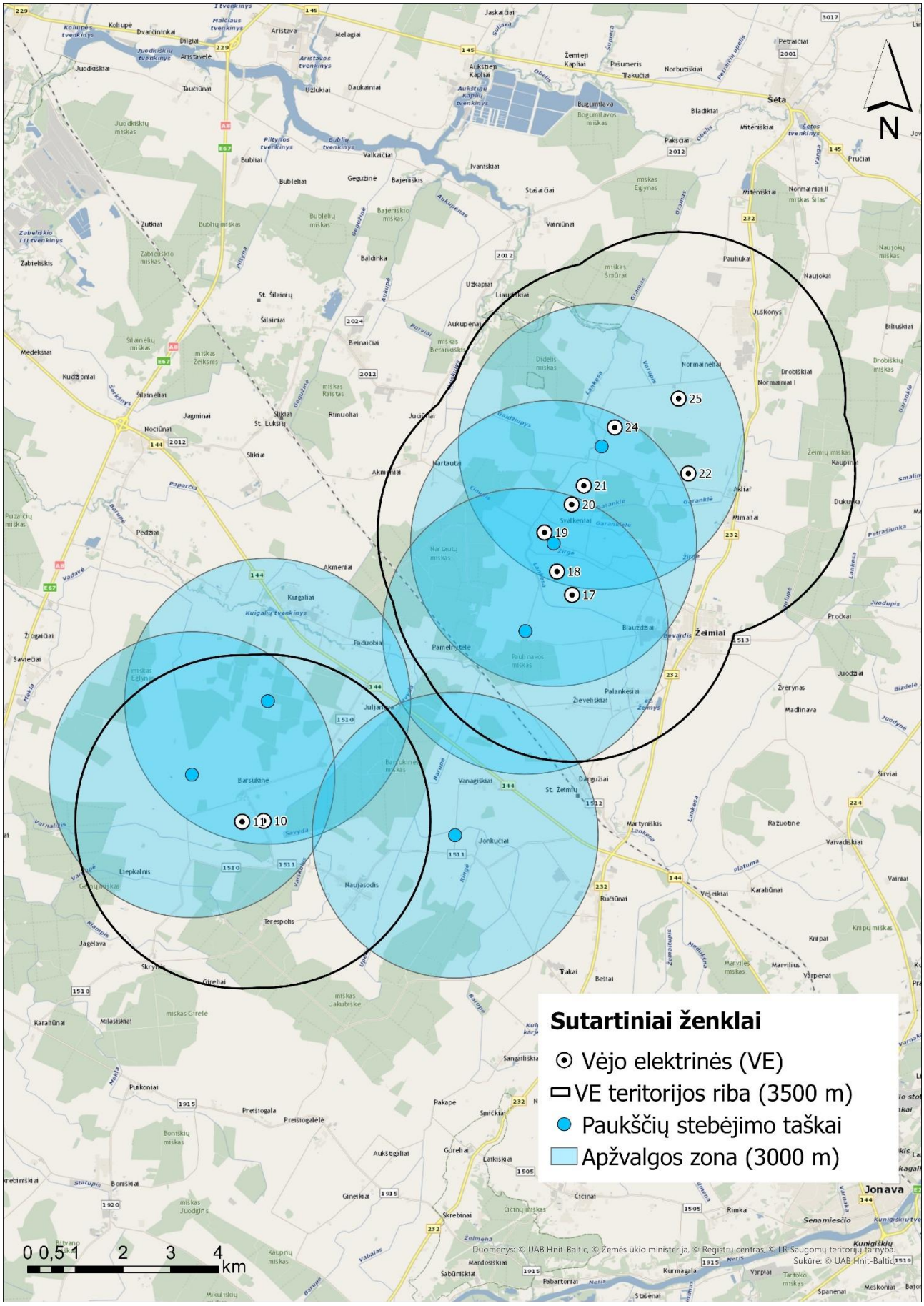
Tyrimai buvo vykdomi ir stebėjimai atliekami planuojamo 10 VE parko teritorijoje Žeimių sen. ir Kulvos sen., Jonavos r. sav., Kauno apskr. Dalis stebėjimų atlikta ir už šios teritorijos ribų apimant artimiausias apylinkes įskaitant ir dalį Kėdainių r. Pelėdnagių sen. teritorijos.

Tyrimai atlikti siekiant tinkamai reprezentuoti perinčių ir besimaitinančių, migruojančių, sankaupas sudarančių paukščių ir šikšnosparnių veisimosi bei migracijų metu gausumą ir rūšinę sudėtį planuojamo VE parko teritorijoje.

Plėšriųjų paukščių ir juodųjų gandrų mitybos ir perskridimų vietoms bei migruojančių paukščių skridimo srautams nustatyti buvo pasirinkti 6 pastovūs stebėjimo taškai (LKS koordinatės):

1. 512157, 6120025.
2. 511151, 6117991.
3. 510557, 6116146.
4. 505152, 6114679.
5. 503563, 6113136.
6. 509086, 6111868.

[2] https://www.birdlife.lt/upload/user_uploads/LEIDINIAI/Paukciu_metodikos_2016._elektronine_versija.pdf
[3] http://www.ipgs.lt/view.php?kat_id=1&sub_id=7



2 pav. Plėšriųjų ir sklandančių paukščių paukščių stebėjimo taškai

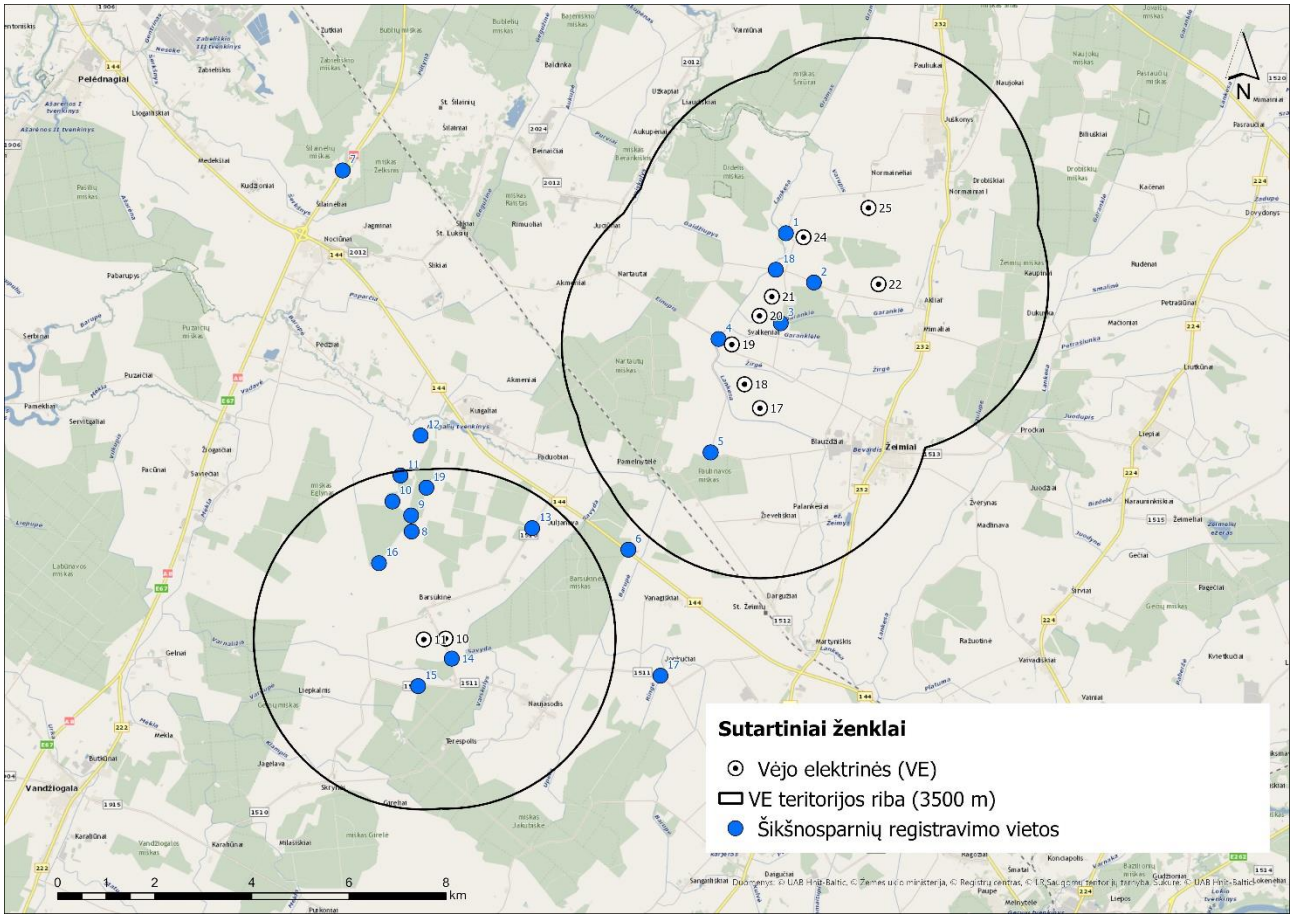
Stebėjimų vietos pasirinktos taip, kad galima būtų apžvelgti visą planuojamo parko teritoriją, įvertinant paukščių perskridimus ir mitybos vietas. Ataskaitos 2 pav. parodyti kiekvieno stebėjimo taško apžvalgos plotai (stebint su optine įranga). Miškuose, nepatenkančiuose į šiuos plotus, lizdų buvo ieškoma papildomai, o atvirose vietose buvo registruojami visi praskrendantys paukščiai. Pasirenkant stebėjimo vietas, buvo taip pat atsižvelgta į aplinkinių kraštovaizdžio objektų (miškų, kalvų, būsimų vėjo elektrinių) išsidėstymą. Pasirinktuose taškuose buvo stebimi ir registruojami visi teritorijoje pastebėti plėšrieji paukščiai, juodieji gandrai, migruojantys paukščiai pasižymint jų skridimo aukščius, kryptis ir mitybos vietas. Nurodytų paukščių stebėjimai taip pat buvo atlikti ir lankantis kitose teritorijos vietose, ieškant paukščių sankaupų, perinčių paukščių apskaitų metu. Migruojančių paukščių sankaupų stebėjimai vykdyti naudojant Europos Bendrijos svarbos paukščių rūšių monitoringo metodikas. Paukščių apskaitos vykdytos pavasarinių ir rudeninių migracijų metu.

Perinčių paukščių apskaitos buvo vykdomos apeinant ir apvažiuojant teritoriją, apžiūrint skirtingus biotopus ir stebint visas perinčių paukščių rūšis. Apskaitos vykdytos daugiausiai rytinėmis valandomis stengiantis aplankyti visas teritorijoje esančias buveines.

Besiveisiančių šikšnosparnių tyrimai buvo vykdomi, taikant metodus, kurie buvo taikyti, įgyvendinant 2009–2014 m. Europos ekonominės erdvės finansinio mechanizmo LT03 programos „Biologinė įvairovė ir ekosistemų funkcijos“ projektą „Vėjo energetikos plėtra ir biologinei įvairovei svarbios teritorijos“ (VENBIS).

Šikšnosparnių stebėjimai atlikti nešiojamu ultragarsiniu detektoriumi, todėl duomenys gali būti pakartotinai analizuojami šikšnosparnių garsų analizei skirtomis specialiomis programinėmis įrangomis (išmaniųjų įrenginių priedėlių programėlės rūšies autoidentifikavimo funkcija naudota tik kaip pagalbinė priemonė rūšiai nustatyti, bet ne stebėjimo faktams patvirtinti). Šikšnosparnių tyrimams naudojamo ultragarsinio detektoriaus veikimo diapazonas įrašų atlikimo metu apėmė nuo žemiausio iki aukščiausio šikšnosparnių skleidžiamo ultragarso dažnio. Stebėjimai atlikti ramiu nelietingu ir nevėjuotu oru esant ne žemesnei nei +10 °C temperatūrai. Stebėjimai atlikti taškuose prie VE darant juose įrašus 10 minučių. Migracijos metu įrašai buvo daromi po 1 valandą pagal „Vėjo energetikos plėtra ir biologinei įvairovei svarbios teritorijos (VENBIS) Nr. EEE-LT03-AM-01-K-01-004 rekomendacijas“. Šikšnosparnių įrašams fiksuoti (veisimosi ir migracijų metu) buvo pasirinkta 19 stebėjimo taškų (LKS koordinatės):

1. 512072, 6120510.
2. 512649, 6119492.
3. 511969, 6118655.
4. 510689, 6118328.
5. 510520, 6115998.
6. 508828, 6113993.
7. 502947, 6121802.
8. 504366, 6114367.
9. 504358, 6114700.
10. 503971, 6114991.
11. 504135, 6115523.
12. 504554, 6116347.
13. 506851, 6114437.
14. 505195, 6111751.
15. 504497, 6111188.
16. 503696, 6113720.
17. 509489, 6111403.
18. 511867, 6119754.
19. 504668, 6115269.



3 pav. Pastovūs šikšnosparnių stebėjimo (įrašų darymo vietos) taškai VE parke

3. PLĖŠRIŲJŲ PAUKŠČIŲ, APTINKAMŲ PERĖJIMO IR MIGRACIJŲ BEI PERSKRIDIMŲ METU, TYRIMŲ REZULTATAI

Planuojamo VE parko teritorijoje perėjimo metų dažniausiai aptinkami plėšrieji paukščiai – paprastieji suopiai. Teritorijoje taip pat peri ir mažieji ereliai rėksniai, o kitos rūšys, tokios kaip nendrinė ar pievinė lingės, perėjimo metu stebėtos tik praskrendančios, dažniausiai matytos nuo planuojamų VE labiau nutolusiose vietose, besimaitinančios.

Kai kurie plėšrieji paukščiai, aptinkami perėjimo metu planuojamo VE parko teritorijoje, čia neperi, tačiau praskrenda besimaitindami ar teritoriją praskrenda tranzitu (joje nesustoja). Migracijų metu nenustatyta jokių plėšriesiems paukščiams svarbių vietų, todėl VE parko neigiamas poveikis neprognozuojamas.

Nendrinė ir pievinė lingės (*Circus aeroginosus*, *Circus pygargus*)

Planuojamoje VE parko teritorija nėra tinkama abiejų rūšių lingėms perėti, t.y. perimviečių ir/ar lizdaviečių nerasta. Nendrinės lingės perėjimui renkasi didesnius ar mažesnius nendrynus. Kadangi vandens telkinių su dideliais nendrynais tirtoje teritorijoje nėra, tai perinčių nendrinių lingių nebuvo surasta, tačiau šiauriau VE parko, už tiriamos teritorijos ribų, matyta pora pavasarį, kuri galėtų perėti atviroje miško pelkėje. Medžiojančios nendrinės lingės perėjimo metu tirtoje teritorijoje matytos besimaitinančios labiau nuo planuojamų VE nutolusių upelių slėniuose ir kitose maitinimuisi tinkamose agrarinio kraštovaizdžio vietose.

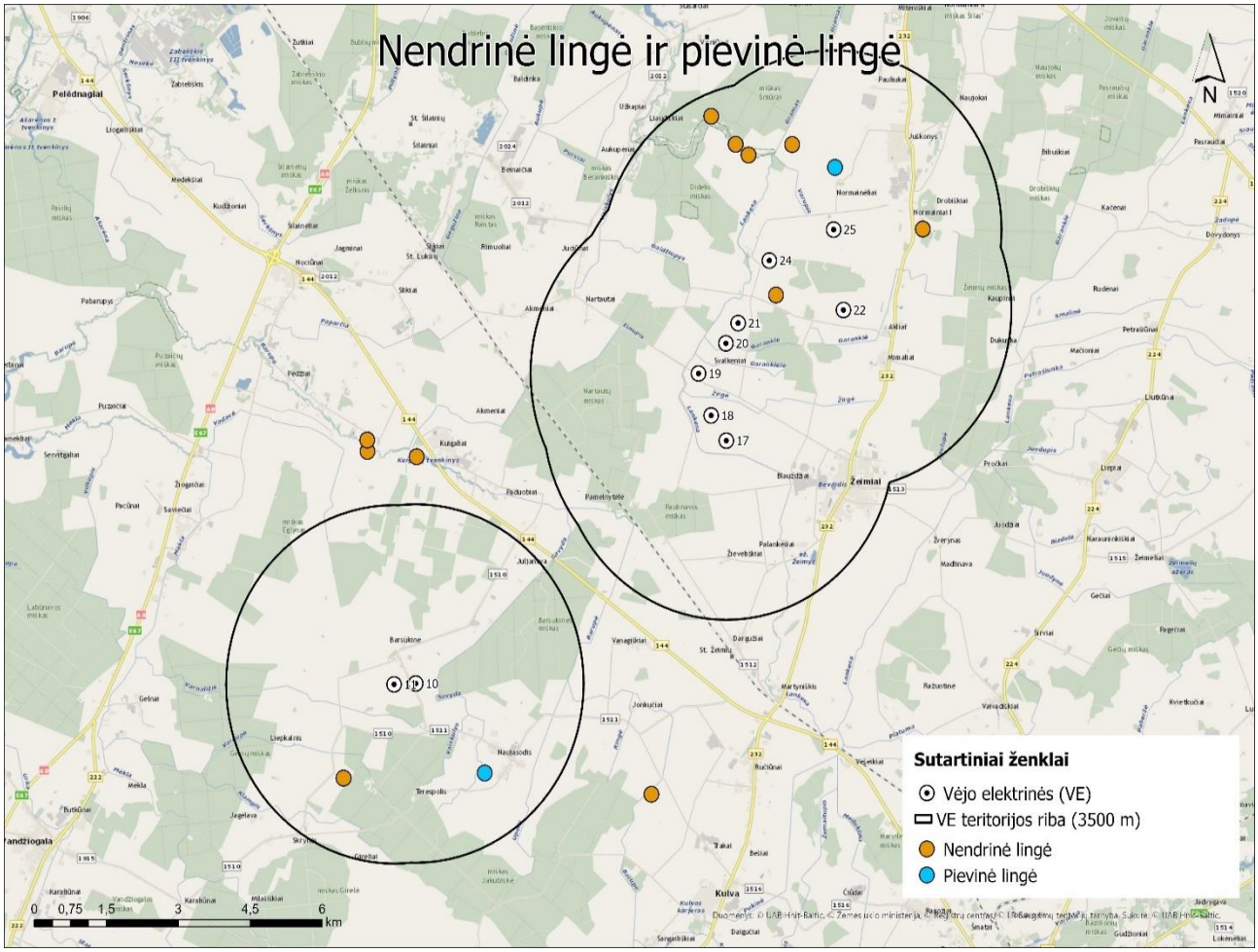
Pievinės lingės perėjimo metu nestebėtos, kelis kartus matytos tik rudenį, praskrendančios VE parko teritorijoje migracijų metu..

Lingės medžiodamos gali nuskristi gana toli nuo lizdo vietos, medžioja virš laukų ir pievų, paprastai neaukštai (dažniausiai iki 15 m aukštyje). VE gali daryti neigiamą poveikį šioms paukščių rūšims tik pavasarį, tuoktuvinių skrydžių metu, ir rudenį, kai perskridimai ilgesni ir skridimo aukštis didesnis. Perėjimo (ir migracijų) metu VE parkas neturėtų kelti šiems paukščiams grėsmės, nes dauguma lingių skrydžių vyksta nedideliame, iki , nes dauguma lingių skrydžių vyksta nedideliame, iki 40 m aukštyje.

1 lentelė. Nendrinių ir pievinių lingių stebėjimų planuojamo VE parko teritorijoje suvestinė:

Rūšis	**Skaičius**	**Elgsena**	**Skridimo aukštis**	**Buveinė**	**Stebėjimo data**	**Pastabos**	**X**	**Y**
Circus aeruginosus	1	Maitinosi	1-20	Pieva	2022-09-17	Medžioja patelė.	512576.4	6119753
Circus aeruginosus	1	Maitinosi	1-20	Javai	2022-10-01		509980	6110002
Circus aeruginosus	1	Skrido-skrido	1-20		2022-10-01		515631.9	6121039
Circus aeruginosus	1	Skrido-skrido	1-20	Javai	2022-10-08		503558.1	6110317
Circus aeruginosus	1	Skrido-skrido	21-40	Javai	2023-04-29	Patinas.	512003	6122482
Circus aeruginosus	1	Maitinosi	1-20	Pieva	2023-05-13	Medžioja patinas.	505082.6	6116595
Circus aeruginosus	2	Skrido-skrido	41-60	Pieva	2023-05-05	Pora, tuoktuvių skrydis.	511226.4	6123240
Circus aeruginosus	1	Maitinosi	1-20	Pieva	2023-05-21	Patinas.	511732.9	6122693
Circus aeruginosus	1	Maitinosi	21-40	Javai	2023-06-18		504062.2	6116699

Rūšis	Skaičius	Elgsena	Skridimo aukštis	Buveinė	Stebėjimo data	Pastabos	X	Y
Circus aeruginosus	1	Skrido-skrido	1-20	Pieva	2023-07-03	Patelė.	504052.2	6116918
Circus aeruginosus	1	Maitinosi	1-20	Javai	2023-07-08	Patelė.	512910.4	6122692
Circus pygargus	1	Skrido-skrido	1-20	Javai	2022-09-24	Virš laukų medžioja.	506502.6	6110415
Circus pygargus	1	???	21-40	Javai	2022-09-30	Patinas praskrido į pietvakarius.	513802.4	6122246



4 pav. Nendrinių ir pievinių lingių stebėjimo vietos

<u>Mažasis erelis rėksnys (*Clanga pomarina*)</u>

Planuojamoje VE parko (3,5 km aplink VE parką) teritorijoje žinoma 16 mažųjų erelių rėksnių lizdų,. Ne visuose rastuose lizduose paukščiai perėjo. Į galimo reikšmingo poveikio zoną patenka VE 17, 18, 19, 20, 21, 22, 24.

Nors mažieji ereliai rėksniai maitintis skrenda į aplinkinius laukus ir pievas, gali skristi gana toli, planuojamo VE parko teritorijoje svarbių maitinimosi plotų 2023 m.ir 2024 m. nenustatyta. Dažniausiai perėjimo metu šie paukščiai maitinosi netoli lizdo esančiose atvirose miško vietose ir netoli nuo pamiškių, o jaunikliams palikus lizdus, prieš migraciją, pasklinda gana plačiai, maitindamiesi laukuose. Jų mitybos vietos šiuo laikotarpiu labai priklauso nuo žemės ūkio vaiklos.

Pavasarį, teritorinių skrydžių metu ir perskrisdami didesnius atstumus mitybos metu, mažieji ereliai rėksniai paprastai skrenda iki 200 metrų aukštyje, tačiau sklandydami gali iškilti gerokai aukščiau, iki 1 km. Teritorijoje vykdytų stebėjimų metu stebėtų paukščių skrydžio aukštis buvo labai įvairus, nuo 20 m iki 1000 m.

Šios rūšies paukščiai yra itin jautrūs VE poveikiui, jų žuvimo tikimybė gana didelė. Perėjimo metu vietiniai besimaitinantys paukščiai dažniau stebėti centrinėje parko dalyje (į vakarus nuo planuojamų VE vietų), kitose vietose stebėti tik keletą kartų. Migracijų metu rūšis teritorijoje negausi, matyti tik pavieniai paukščiai.

Perėjimo metu VE parkas gali kelti šiems paukščiams reikšmingą pavojų dėl tiesioginio susidūrimo (ypač VE, esančios arti lizdų vietų: VE 17, 18, 19, 20, 21, 22, 24).

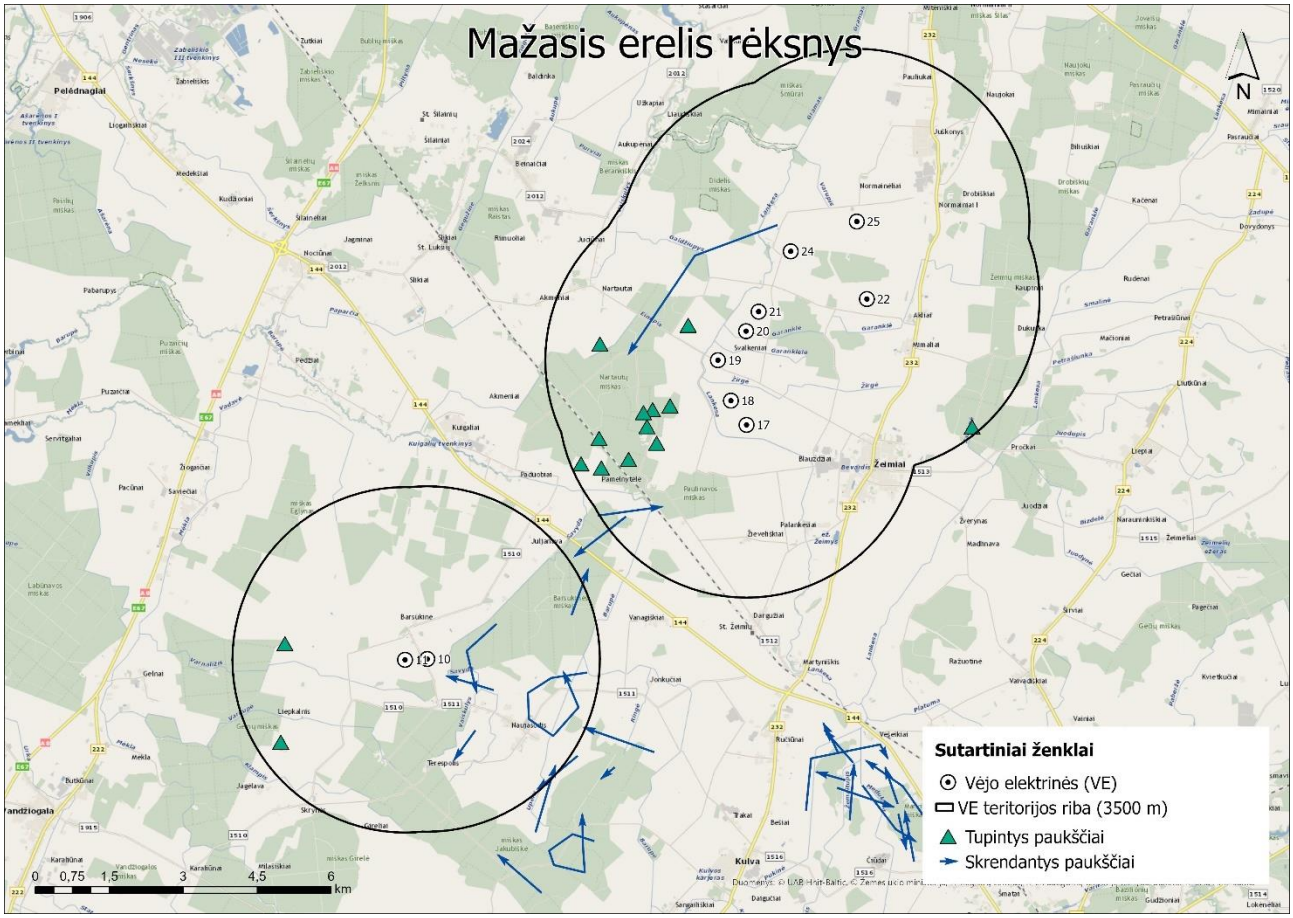
2 lentelė. Mažųjų erelių rėksnių lizdaviečių stebėjimo planuojamo VE parko teritorijoje suvestinė:

Pastabos *	**X**	**Y**	**Clanga pomarina**
2023 m. lizde perėjo, lizdas ąžuole.	509768,4	6116779	Lizdas
2023 m. lizde perėjo, lizdas ąžuole.	507952,2	6118012	Lizdas
Lizdas eglėje, 2023 m. šalia matyti mažieji ereliai rėksniai, galimai perėjo.	509930,5	6114178	Lizdas
2023 m. lizde lankėsi, bet ar perėjo neaišku, lizdas ąžuole.	503899,4	6114491	Lizdas
2023 m. lizde galimai perėjo, lizdas ąžuole. Čia MERpora stebima jau keli metai. 2023 m. netoliese matyti suaugę paukščiai.	500415,6	6112652	Lizdas
2023 m. lizde greičiausiai perėjo, lizdas liepoje.	501045,6	6107899	Lizdas
Dirbtinis lizdas, naudotas, juodojo gandro. eglėje.	501478,6	6111715	Lizdas
2024 m. perėjo.	509305,4	6110345	Lizdas
2023 perėjo	506987,7	6112354	Lizdas
SRIS	512328,4	6123131	Lizdas
SRIS	519570,7	6122203	Lizdas
SRIS	517685	6125001	Lizdas
SRIS	519642,8	6126443	Lizdas
Senas lizdas, tik likučiai, berže.	519700,6	6126505	Lizdas
Pridėta iš SRIS 2024-08	507785,6	6108916	Lizdas
Pridėta iš SRIS 2024-08	508607	6109456	Lizdas
Pridėta iš SRIS 2024-08	507857,8	6113662	Lizdas
Pridėta iš SRIS 2024-08	501515,2	6110346	Lizdas
Pridėta iš SRIS 2024-08	502639	6116047	Lizdas
Pridėta iš SRIS 2024-08	508302,9	6116253	Lizdas
Pridėta iš SRIS 2024-08	509371,8	6118869	Lizdas
Pridėta iš SRIS 2024-08	512806,9	6118754	Lizdas
SRIS 2011	498318	6113261	Lizdas
SRIS 2023	500579,1	6112608	Lizdas
SRIS 2011	500902,5	6110573	Lizdas

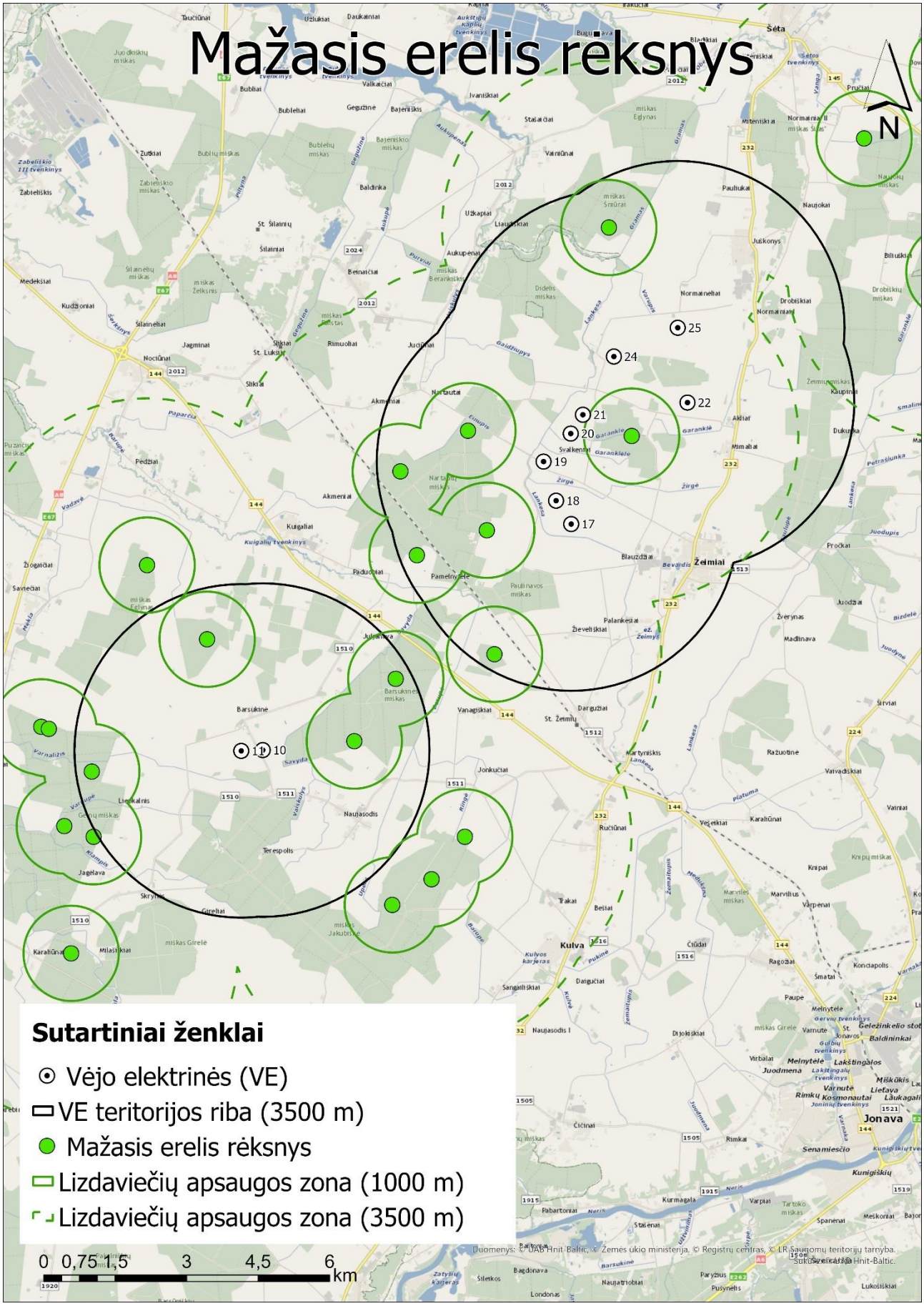
3 lentelė. Mažųjų erelių rėksnių stebėjimo vietų planuojamo VE parko teritorijoje suvestinė:

Rūšis	**Skaičius**	**Elgsena**	**Skridimo aukštis**	**Buveinė**	**Stebėjimo data**	**Pastabos**	**X**	**Y**
Clanga pomarina	2	Maitinosi	21-40	Ganykla	2022-09-17	Sklando, suka ratus.	510186.1	6115979
Clanga pomarina	1	Sklandė	151-200	Miškas	2022-09-18	Sklando aukštai.	509562.4	6118058
Clanga pomarina	1	Skrido-skrido	41-60	Javai	2022-09-24	Skraido pamiškėje.	504291.5	6121268
Clanga pomarina	3	Skrido-skrido	81-100	Javai	2022-09-24	Skraidė ilgokai pamiškėje ir virš lauko.	510467.4	6119069
Clanga	1	Skrido-	41-60	Pieva	2022-09-24	Sklando neaukštai.	508706.2	6106748

Rūšis	Skai-čius	Elgsena	Skridimo aukštis	Buveinė	Stebėjimo data	Pastabos	X	Y
pomarina		skrido						
Clanga pomarina	5	Skrido-skrido	>200		2022-09-25	Per 20 min. praskrido 2+1+2	512187.9	6120965.6
Clanga pomarina	1	Skrido-skrido	61-80	Miškas	2023-05-05		509632.2	6117235
Clanga pomarina	2	Skrido-skrido	81-100	Miškas	2023-05-12		509519.8	6116892
Clanga pomarina	1	Maitinosi	1-20	Javai	2023-05-21		509715.5	6116556
Clanga pomarina	1	Kilo-skrido	1-20		2023-05-28		510354.9	6118945
Clanga pomarina	2	Skrido-skrido	121-150		2023-06-02		502178.4	6112494
Clanga pomarina	1	Skrido-skrido	81-100	Javai	2023-06-10		509987.5	6117314
Clanga pomarina	1	Maitinosi	41-60	Javai	2023-06-15		508565.8	6118566
Clanga pomarina	1	Skrido-skrido	81-100		2023-06-18		502093.2	6110499
Clanga pomarina	1	Maitinosi	21-40		2023-06-18		508182	6116137
Clanga pomarina	1	Skrido-skrido	21-40		2023-06-23		508593.7	6116056
Clanga pomarina	2	Maitinosi	81-100	Miškas	2023-07-01		509146.4	6116228
Clanga pomarina	1	Skrido-skrido	81-100	Miškas	2023-07-07		509447.6	6117176
Clanga pomarina	2	Skrido-skrido	121-150	Miškas	2023-08-07		508547.6	6116653
Clanga pomarina	2	Skrido-skrido	81-100	Miškas	2023-08-21		516113.6	6116884



5 pav. Mažųjų erelių rėksnių stebėjimo vietos



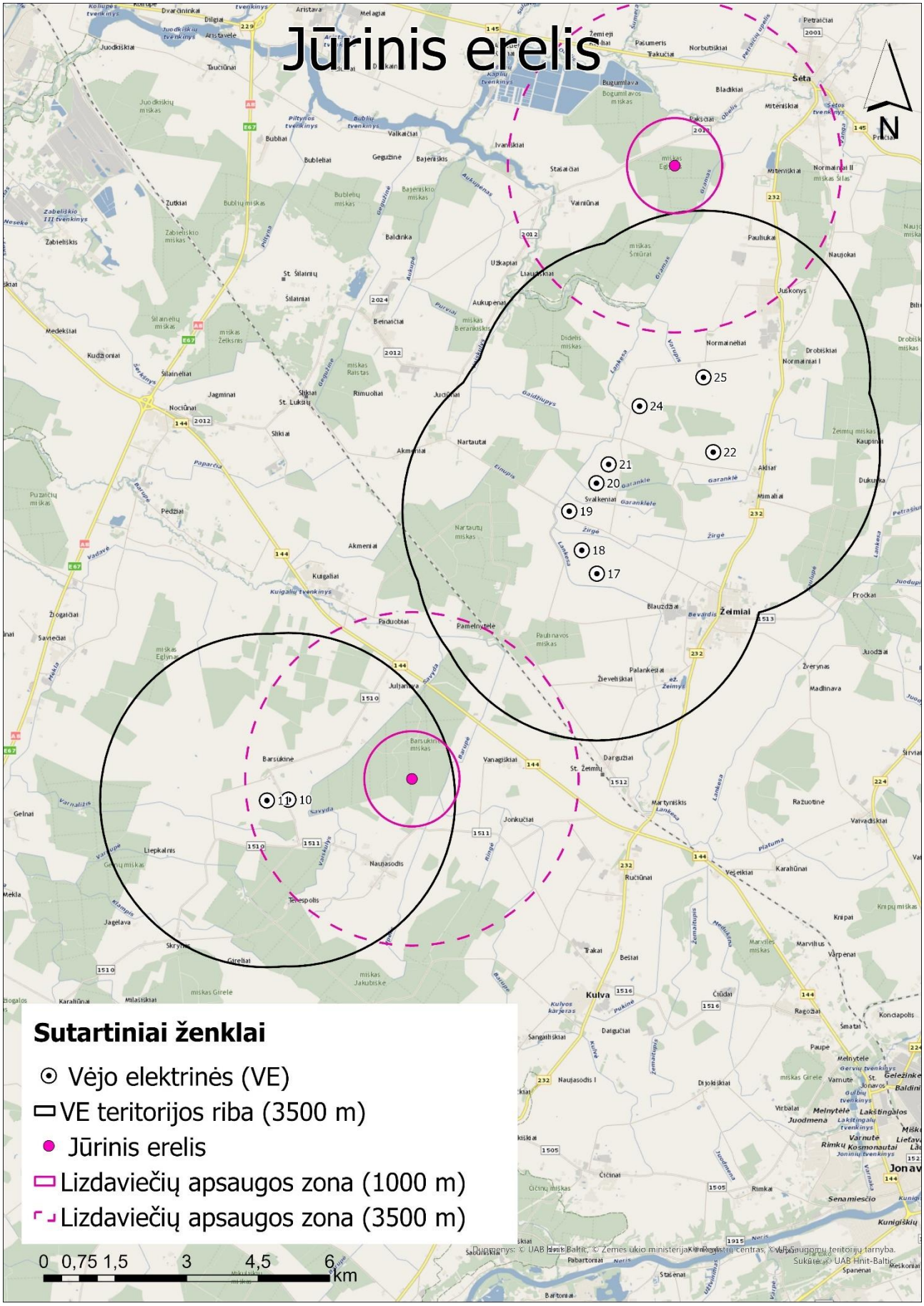
6 pav. Mažųjų erelių rėksnių lizdų vietos

Jūrinis erelis (*Haliaeetus albicilla*)

Barsukinės miške buvo rastas užimtas jūrinio erelio lizdas, šalia kurio stebėtas suaugęs paukštis. Stebėjimų metu paukštis šioje vietoje buvo pastebėtas vos tris kartus. Dar vienas lizdas yra už VE parko ribų (daugiau nei 3,5 km). VE 10 patenka į galimo reikšmingo poveikio jūriniam ereliui zoną (1001-3500 m).

4 lentelė. Jūrinio erelio perėjimo vieta VE parke

Rūšis	**Skai-čius**	**Elgsena**	**Medis**	**Buveinė**	**Stebėjimo data**	**Pastabos**	**X**	**Y**
Haliaeetus albicilla	1	Perintis	Drebulė	Miškas	2022-09-17	Užimtas lizdas	507657,6	6112602



7 pav. Jūrinio erelio lizdų vietos

Paprastasis suopis (*Buteo buteo*)

Įprastas, beveik išimtinai agrariniame kraštovaizdyje medžiojantis plėšrusis paukštis, perintis miškuose, giraitėse, bet kokiuose didesniuose želdiniuose. Planuojamo VE parko teritorijoje nustatyti 32 lizdai, tačiau ne visuose paukščiai perėjo.

Paprastieji suopiai nuolat stebimi medžiojantys arba tykantys grobio, tačiau jų stebėjimo atvejų skaičius neatspindi tikros gausos. Kadangi paprastieji suopiai maitinasi atvirose vietose ir skraido paprastai 50–150 m aukštyje arba sklando labai aukštai, jie pastebimi itin dažnai ir daugeliu atvejų kasdien registruojami tie patys individai.

Į paprastojo suopio galimo reikšmingo poveikio zoną patenka VE 25, 22, 21.

Nepaisant daugkartinių rūšies registracijų planuojamo VE parko teritorijoje, tyrimų Europos šalyse duomenys rodo, kad paprastieji suopiai geba išvengti susidūrimo su VE ir planuojamas parkas reikšmingo neigiamo poveikio nedarys nei perėjimo metu, nei migracijų metu (migracija teritorijoje neintensyvi, matyti pavieniai paukščiai).

5 lentelė. Paprastųjų suopių lizdaviečių stebėjimo planuojamo VE parko teritorijoje suvestinė:

Pastabos *	**Stebėjimo data**	**X**	**Y**	**Rūšis ***
Gyvenamas lizdas berže.	2023-06-30 09:38:31.531	507843,1	6113459	Buteo buteo
Gyvenamas lizdas berže.	2023-06-30 09:39:44.508	510567,8	6120054	Buteo buteo
Gali būti ir MER, lizdas eglėje 1 m skersmens. tikrinti pavasarį.	2024-01-27 12:05:45.275	509322,9	6109504	Buteo buteo
GB suopio, reikia tikrint, atrodo nenaudotas 2023.	2024-02-24 09:09:25.528	503886,2	6114843	Buteo buteo
juodalksnyje, panašu naudojamas.	2024-02-24 14:00:31.492	501109,1	6110622	Buteo buteo
GB ir MERo. juodalksnyje.	2024-02-24 14:09:58.623	500992,7	6110577	Buteo buteo
2024 m. perėjo	<Null>	508813,9	6110379	Buteo buteo
Ąžuolas, sklando du paukščiai, rėkia.	2024-03-15 10:09:38.096	508446,4	6112925	Buteo buteo
Eglėje, senas, nežinia ar naudotas 2023. jei čia Augusto MER tai tyliu...	2024-03-15 11:28:13.876	506502,2	6112231	Buteo buteo
g.b ir MER, ąžuole, bet nėra ženklų, kad būtų naudotas 23m.	2024-03-15 11:50:22.980	506520,7	6112161	Buteo buteo
pušyje, išskrido suaugęs, girdisi balsas kito laukuose už 300 m.	2024-04-11 11:30:54.683	513316,8	6109233	Buteo buteo
Berže, už 70-100 m yra lizdas, iš kurio išskrido suaugęs.	2024-04-11 11:36:13.950	513243,3	6109250	Buteo buteo
Pušy, pagal dydį gb mer. gyvybės nėra, prie pirmo kranksi du c rax.	2024-04-11 12:33:39.455	513417	6110044	Buteo buteo
<Null>		504589,6	6110255	Buteo buteo
<Null>		507274,4	6113614	Buteo buteo
<Null>		509065,5	6117948	Buteo buteo
<Null>		508735,5	6116103	Buteo buteo
<Null>		507833,6	6117127	Buteo buteo
<Null>		512971,6	6118296	Buteo buteo
<Null>	<Null>	513474,9	6118622	Buteo buteo
pradėtas krauti, neužbaigtas, pušyje	2024-07-05 09:20:29.865	513478,4	6110153	Buteo buteo

Pastabos *	Stebėjimo data	X	Y	Rūšis *
drebulėje, neblogas, bet naudojimo požymių nėra.	2024-07-05 15:00:01.140	509420,6	6110330	Buteo buteo
SRIS	<Null>	511566,6	6121226	Buteo buteo
SRIS	<Null>	516353,5	6119076	Buteo buteo
SRIS	<Null>	516689,3	6120056	Buteo buteo
SRIS	<Null>	516263,8	6123862	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	507299	6112428	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	508434,9	6114919	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	508354,6	6115099	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	506366,9	6115354	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	505073	6113715	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	505179	6113625	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	505391,8	6114197	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	510821,5	6115890	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	509292,8	6115969	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	509298,9	6116043	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	509362,9	6116336	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	508163	6116826	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	508084,9	6116952	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	509195	6117559	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	513442,7	6118562	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	512620,1	6119110	Buteo buteo
Pridėta iš SRIS 2024-08	2024-08-27	512876,7	6118154	Buteo buteo
SRIS 2023		502823,7	6105563	Buteo buteo
SRIS 2023		499678,3	6107485	Buteo buteo
SRIS 2023		498267,3	6107884	Buteo buteo
SRIS 2023		502309,8	6107412	Buteo buteo
SRIS 2023		503175,4	6107633	Buteo buteo
Kiti tyrimai	2024-11-16 09:15:45.672	504817,1	6109729	Buteo buteo
Kiti tyrimai	2024-11-16 09:43:19.251	506255,8	6108516	Buteo buteo
Kiti tyrimai	2024-11-16 11:24:49.954	504906	6108594	Buteo buteo
Kiti tyrimai	2024-11-16	506104	61079	Buteo

Pastabos *	Stebėjimo data	X	Y	Rūšis *
	11:52:41.081	,7	28	buteo
Kiti tyrimai	2024-12-03 09:15:30.102	503378 ,8	61080 02	Buteo buteo
Kiti tyrimai	2024-12-03 09:37:19.318	503051 ,6	61085 85	Buteo buteo
SRIS 2024-07-03		513923 ,1	61200 99	Buteo buteo
SRIS 2024-06-10		510666 ,4	61134 54	Buteo buteo
SRIS 2024-06-26		504769 ,1	61159 97	Buteo buteo

6 lentelė. Paprastųjų suopių stebėjimo vietų planuojamo VE parko teritorijoje suvestinė:

Rūšis	Skaičius	Elgsena	Skridimo aukštis	Buveinė	Stebėjimo data	X	Y
Buteo buteo	1	Maitinosi	41-60	Javai	2022-09-17	512544.1	6115500
Buteo buteo	1		81-100	Javai	2022-09-17	511931.8	6115372
Buteo buteo	2	Maitinosi	1-20	Ankštiniai	2022-09-17	505864.1	6111752
Buteo buteo	1	Kilo-skrido	1-20	Pieva	2022-09-18	503215.8	6121784
Buteo buteo	2		81-100	Javai	2022-09-18	502450.5	6111028
Buteo buteo	1		101-120	Javai	2022-09-18	508162.4	6110565
Buteo buteo	1	Skrido-skrido	81-100	Ankštiniai	2022-09-18	503846.5	6115018
Buteo buteo	2	Skrido-skrido	101-120	Miškas	2022-09-24	509421.9	6110469
Buteo buteo	1	Skrido-skrido	81-100	Javai	2022-09-24	503640.8	6112266
Buteo buteo	3	Skrido-skrido	61-80	Javai	2022-09-24	505133.1	6117465
Buteo buteo	1	Skrido-skrido	61-80	Miškas	2022-09-25	503136.9	6123433
Buteo buteo	1	Kilo-tūpė	1-20	Miškas	2022-09-17	510471.4	6115993
Buteo buteo	1	Kilo-skrido	1-20	Miškas	2022-09-17	513359.8	6119294
Buteo buteo	1	Maitinosi	61-80	Javai	2022-09-17	504551.8	6116184
Buteo buteo	2	Maitinosi	1-20	Javai	2022-10-01	505425.1	6113752
Buteo buteo	1	Skrido-skrido	61-80	Javai	2022-10-01	505225.6	6115467
Buteo buteo	1	Skrido-skrido	41-60	Javai	2022-10-01	504531.8	6111349
Buteo buteo	1	Skrido-skrido	21-40	Javai	2022-10-01	508464.6	6112225
Buteo buteo	1	Skrido-skrido	41-60	Miškas	2022-10-01	509667.4	6113896
Buteo buteo	1	Skrido-skrido	81-100	Javai	2022-10-01	513156.6	6120636
Buteo buteo	1	Skrido-skrido	61-80	Miškas	2022-10-01	509994	6119123
Buteo buteo	1	Kilo-skrido	1-20	Javai	2022-10-08	510174.6	6113587
Buteo buteo	1	Skrido-skrido	21-40	Javai	2022-10-08	510139.8	6118098
Buteo buteo	2	Skrido-skrido	101-120		2022-10-08	514395.1	6122312
Buteo buteo	1	Skrido-skrido	41-60	Miškas	2022-10-08	512805.8	6118670
Buteo buteo	1	Skrido-skrido	81-100	Miškas	2022-10-08	509923.6	6117062
Buteo buteo	1	Maitinosi	1-20	Ankštiniai	2022-10-08	507722.4	6115595
Buteo buteo	1	Skrido-skrido	41-60		2022-10-23	507241.8	6114124
Buteo buteo	2	Skrido-skrido	61-80		2022-10-23	506324.9	6111570
Buteo buteo	1	Skrido-skrido	81-100		2022-10-23	504395.7	6114144
Buteo buteo	1	Maitinosi	1-20		2022-10-23	512369.9	6121629
Buteo buteo	1	Skrido-skrido	41-60	Miškas	2022-11-11	511023.9	6115522
Buteo buteo	1	Skrido-skrido	41-60		2022-11-11	510869.4	6120659
Buteo buteo	1	Skrido-skrido	61-80		2022-11-11	504578	6117221
Buteo buteo	1	Maitinosi	1-20	Javai	2022-11-26	512556.7	6120267
Buteo buteo	1	Skrido-skrido	81-100		2022-11-26	512289.9	6117069

Rūšis	Skaičius	Elgsena	Skridimo aukštis	Buveinė	Stebėjimo data	X	Y
Buteo buteo	1	Kilo-skrido	1-20		2022-11-26	510074.9	6118536
Buteo buteo	2	Skrido-skrido	21-40		2022-11-26	507768.1	6114983
Buteo buteo	1	Skrido-skrido	101-120		2022-11-26	510592.7	6112008
Buteo buteo	1	Skrido-tūpė	21-40	Miškas	2022-11-20	504817.8	6111533
Buteo buteo	1	Maitinosi	1-20	Javai	2023-03-18	512189.3	6119528
Buteo buteo	1	Kilo-skrido	1-20		2023-03-18	510131.7	6119943
Buteo buteo	2	Skrido-skrido	61-80	Javai	2023-03-18	510813.3	6116241
Buteo buteo	1	Skrido-skrido	41-60	Miškas	2023-03-18	509761	6113783
Buteo buteo	1	Skrido-skrido	81-100		2023-03-18	505438.4	6111134
Buteo buteo	1	Skrido-skrido	61-80		2023-03-18	503072.6	6111959
Buteo buteo	2	Skrido-skrido	101-120		2023-03-19	504249.5	6114844
Buteo buteo	3	Skrido-skrido	121-150		2023-03-19	506774.7	6114689
Buteo buteo	1	Skrido-skrido	41-60		2023-03-19	511562.9	6113641
Buteo buteo	2		61-80	Miškas	2023-03-26	512253.2	6118594
Buteo buteo	1	Skrido-skrido	21-40		2023-03-26	513790.7	6119610
Buteo buteo	3	Skrido-skrido	101-120	Javai	2023-03-26	504486.5	6113189
Buteo buteo	1	Skrido-skrido	41-60	Javai	2023-03-31	506349.8	6115428
Buteo buteo	2	Skrido-skrido	61-80		2023-03-31	505596.1	6111911
Buteo buteo	1	Maitinosi	1-20	Ankštiniai	2023-03-31	503027.7	6109918
Buteo buteo	2	Skrido-skrido	81-100		2023-03-31	506375.3	6114112
Buteo buteo	1	Kilo-tūpė	21-40		2023-03-31	504536.6	6115950
Buteo buteo	1	Skrido-skrido	61-80	Javai	2023-03-31	512022.7	6119855
Buteo buteo	1	Maitinosi	1-20		2023-03-31	514584.8	6119240
Buteo buteo	1	Skrido-skrido	41-60	Javai	2023-03-27	512151.2	6119126
Buteo buteo	1	Skrido-tūpė	1-20	Javai	2023-04-07	512905.1	6118027
Buteo buteo	2	Skrido-skrido	101-120	Miškas	2023-04-07	511065.8	6119282
Buteo buteo	2	Skrido-skrido	61-80	Javai	2023-04-07	508734.2	6113531
Buteo buteo	1	Maitinosi	21-40	Javai	2023-04-07	505645.6	6110319
Buteo buteo	2	Skrido-skrido	81-100		2023-04-07	504276.6	6115257
Buteo buteo	1	Skrido-skrido	21-40	Javai	2023-04-10	512283.4	6117759
Buteo buteo	2	Skrido-skrido	41-60	Javai	2023-04-10	510596.7	6119760
Buteo buteo	1	Maitinosi	1-20	Javai	2023-04-10	512404.3	6119501
Buteo buteo	2	Skrido-skrido	121-150		2023-04-10	514724.6	6121210
Buteo buteo	2	Skrido-skrido	81-100	Miškas	2023-04-10	506558.9	6112816
Buteo buteo	1	Skrido-skrido	101-120	Miškas	2023-04-10	503847.8	6114477
Buteo buteo	1	Kilo-skrido	1-20	Javai	2023-04-10	504282.4	6110931
Buteo buteo	1	Skrido-skrido	41-60	Javai	2023-04-14	508789.5	6110691
Buteo buteo	1	Skrido-skrido	81-100	Miškas	2023-04-14	506609	6112099
Buteo buteo	2	Maitinosi	1-20	Javai	2023-04-14	504151.9	6111480
Buteo buteo	2	Skrido-skrido	21-40	Miškas	2023-04-14	507112.6	6113578
Buteo buteo	1	Skrido-skrido	41-60	Javai	2023-04-14	510377.5	6113827
Buteo buteo	2	Skrido-skrido	61-80	Miškas	2023-04-14	513642.2	6118568
Buteo buteo	1	Skrido-tūpė	1-20	Ankštiniai	2023-04-14	513357.2	6121816
Buteo buteo	1	Skrido-skrido	61-80	Javai	2023-04-22	512517.6	6118189
Buteo buteo	2	Skrido-skrido	41-60	Javai	2023-04-22	511730.6	6118884
Buteo buteo	1	Kilo-skrido	21-40	Javai	2023-04-22	510852.5	6117924
Buteo buteo	1	Skrido-skrido	81-100	Javai	2023-04-22	504353.8	6115324
Buteo buteo	1	Skrido-skrido	61-80		2023-04-22	504836.7	6114304

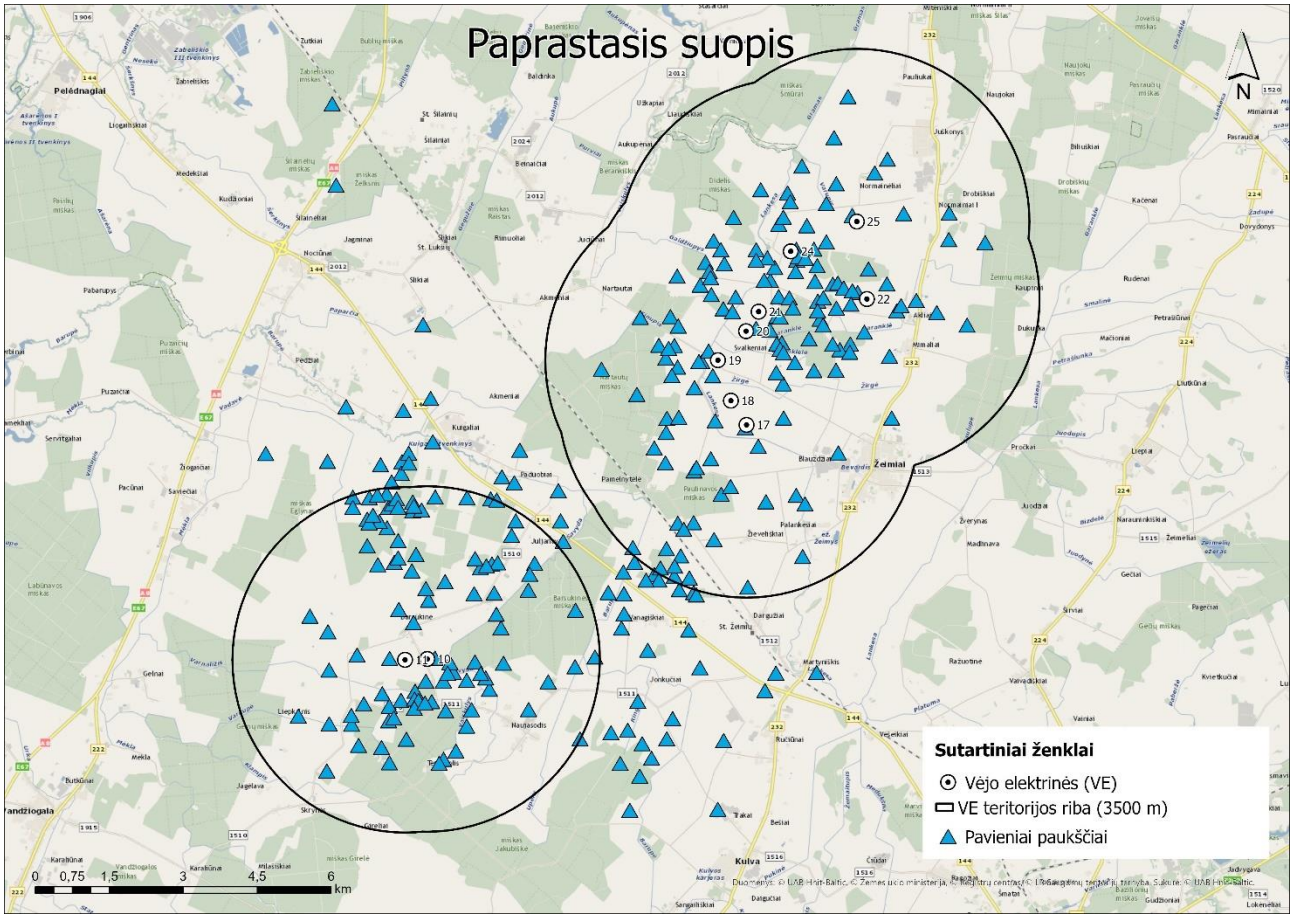
Rūšis	Skaičius	Elgsena	Skridimo aukštis	Buveinė	Stebėjimo data	X	Y
Buteo buteo	1	Maitinosi	1-20		2023-04-17	505154.1	6111320
Buteo buteo	1	Maitinosi	1-20	Javai	2023-04-17	511074.3	6110533
Buteo buteo	1	Kilo-skrido	1-20	Miškas	2023-04-17	509314	6117546
Buteo buteo	1	Skrido-skrido	41-60	Miškas	2023-04-17	510705	6120221
Buteo buteo	1	Maitinosi	1-20		2023-04-17	512191.3	6120994
Buteo buteo	1	Skrido-tūpė	1-20		2023-04-23	513031.5	6119071
Buteo buteo	1	Skrido-skrido	81-100		2023-04-23	512675	6114261
Buteo buteo	1	Skrido-skrido	41-60	Miškas	2023-04-29	505090	6113374
Buteo buteo	1	Kilo-skrido	1-20		2023-04-29	504806.2	6111373
Buteo buteo	1	Maitinosi	1-20		2023-04-29	503531.4	6110863
Buteo buteo	1	Skrido-skrido	121-150		2023-04-29	502685.4	6113052
Buteo buteo	1	Skrido-skrido	101-120		2023-04-29	509759.6	6118541
Buteo buteo	1	Skrido-skrido	41-60		2023-04-29	513927	6118807
Buteo buteo	1	Skrido-skrido	61-80	Miškas	2023-05-05	509791.9	6114029
Buteo buteo	1	Skrido-skrido	81-100	Miškas	2023-05-05	509372.4	6109812
Buteo buteo	1	Maitinosi	1-20	Javai	2023-05-05	503554.4	6115463
Buteo buteo	1	Maitinosi	1-20	Javai	2023-05-05	512533.2	6120035
Buteo buteo	1	Skrido-skrido	121-150		2023-05-05	511512.9	6116866
Buteo buteo	1	Skrido-skrido	41-60		2023-05-05	510143.6	6114937
Buteo buteo	1	Kilo-skrido	1-20	Javai	2023-05-05	505220.2	6112202
Buteo buteo	1	Skrido-skrido	41-60	Javai	2023-05-12	509128	6110742
Buteo buteo	1	Skrido-skrido	101-120		2023-05-12	505391.9	6111742
Buteo buteo	1	Skrido-skrido	41-60		2023-05-12	503889.2	6115447
Buteo buteo	1	Skrido-skrido	61-80		2023-05-12	509900.5	6118280
Buteo buteo	2	Skrido-skrido	101-120		2023-05-12	511733.2	6120477
Buteo buteo	1	Maitinosi	1-20		2023-05-12	515395.2	6119203
Buteo buteo	1	Skrido-skrido	61-80	Javai	2023-05-13	509040.6	6113948
Buteo buteo	1	Skrido-skrido	21-40		2023-05-13	504751.5	6113971
Buteo buteo	1	Kilo-skrido	21-40	Javai	2023-05-13	513286.9	6119779
Buteo buteo	1	Skrido-tūpė	1-20		2023-05-13	513351.7	6118037
Buteo buteo	2	Skrido-skrido	101-120		2023-05-15	504474.6	6114581
Buteo buteo	1	Skrido-skrido	41-60		2023-05-15	504886	6111345
Buteo buteo	1	Kilo-skrido	1-20		2023-05-21	504640.1	6110559
Buteo buteo	1	Maitinosi	1-20		2023-05-21	505523	6112112
Buteo buteo	1	Skrido-skrido	101-120		2023-05-21	504240.6	6115532
Buteo buteo	1	Kilo-skrido	1-20	Javai	2023-05-21	506492.3	6114134
Buteo buteo	1	Skrido-tūpė	21-40	Javai	2023-05-21	510074.1	6113866
Buteo buteo	1	Skrido-skrido	61-80		2023-05-21	509666.9	6116460
Buteo buteo	1	Maitinosi	1-20	Javai	2023-05-21	510783	6120033
Buteo buteo	1	Maitinosi	1-20		2023-05-21	513388.9	6119800
Buteo buteo	1	Kilo-skrido	21-40		2023-05-21	512284	6121136
Buteo buteo	2	Skrido-skrido	61-80		2023-05-26	509914.4	6114420
Buteo buteo	1	Skrido-skrido	41-60		2023-05-26	510878	6114606
Buteo buteo	1	Maitinosi	1-20		2023-05-26	512220.3	6119114
Buteo buteo	1	Kilo-skrido	41-60		2023-05-26	510808.5	6119913
Buteo buteo	1	Skrido-tūpė	21-40		2023-05-26	513506.7	6119703
Buteo buteo	1	Skrido-tūpė	1-20	Javai	2023-05-26	512424.7	6121450
Buteo buteo	1	Skrido-skrido	61-80		2023-05-28	509334.3	6111326

Rūšis	Skaičius	Elgsena	Skridimo aukštis	Buveinė	Stebėjimo data	X	Y
Buteo buteo	1	Skrido-skrido	41-60		2023-05-28	507517	6111723
Buteo buteo	2	Skrido-skrido	121-150	Miškas	2023-05-28	506030.7	6112125
Buteo buteo	1	Skrido-skrido	21-40		2023-05-28	504294.4	6111227
Buteo buteo	1	Skrido-skrido	61-80		2023-05-28	504093.6	6114971
Buteo buteo	1	Skrido-skrido	1-20		2023-05-28	505871	6115453
Buteo buteo	1	Skrido-skrido	61-80		2023-05-28	511317	6119519
Buteo buteo	1	Maitinosi	1-20		2023-05-28	513090.5	6118951
Buteo buteo	1	Skrido-skrido	151-200		2023-06-05	513680	6121171
Buteo buteo	1	Skrido-skrido	21-40		2023-06-02	512982.4	6119438
Buteo buteo	1	Kilo-skrido	1-20		2023-06-02	512110.1	6120118
Buteo buteo	1	Kilo-skrido	1-20		2023-06-02	510466.7	6113532
Buteo buteo	1	Kilo-skrido	1-20		2023-06-02	509920.4	6110568
Buteo buteo	1	Maitinosi	1-20	Miškas	2023-06-02	504801.8	6111187
Buteo buteo	1	Skrido-skrido	41-60		2023-06-02	503884.9	6114944
Buteo buteo	1	Maitinosi	1-20	Javai	2023-06-09	506577.4	6115875
Buteo buteo	1	Skrido-skrido	61-80	Javai	2023-06-09	504687.2	6116354
Buteo buteo	1	Kilo-skrido	1-20	Miškas	2023-06-09	504442.5	6115429
Buteo buteo	2	Skrido-skrido	81-100	Javai	2023-06-09	504061.4	6114095
Buteo buteo	1	Skrido-skrido	21-40		2023-06-09	505862.8	6110824
Buteo buteo	1	Maitinosi	1-20	Javai	2023-06-10	505034.7	6111735
Buteo buteo	1	Kilo-skrido	1-20	Upė, griovys	2023-06-10	503075.2	6110872
Buteo buteo	1	Skrido-skrido	101-120		2023-06-10	509268.9	6114146
Buteo buteo	1	Kilo-skrido	1-20	Upė, griovys	2023-06-09	510631.7	6118210
Buteo buteo	1	Skrido-skrido	41-60	Miškas	2023-06-10	512150.3	6118571
Buteo buteo	1	Kilo-skrido	1-20		2023-06-10	513095.6	6119502
Buteo buteo	2	Skrido-skrido	81-100		2023-06-09	512547.8	6120484
Buteo buteo	1	Skrido-skrido	21-40		2023-06-10	511089.4	6120194
Buteo buteo	1	Skrido-skrido	41-60		2023-06-10	514480.6	6117069
Buteo buteo	1	Skrido-tūpė	1-20		2023-06-10	503523.8	6111041
Buteo buteo	1	Skrido-skrido	21-40		2023-06-18	504473.3	6114233
Buteo buteo	2	Skrido-skrido	81-100		2023-06-18	506249.9	6111800
Buteo buteo	1	Kilo-skrido	1-20		2023-06-18	510364.8	6112771
Buteo buteo	1	Maitinosi	1-20		2023-06-18	510570.9	6118211
Buteo buteo	1	Skrido-skrido	101-120		2023-06-18	513430.8	6118452
Buteo buteo	1	Skrido-skrido	61-80		2023-06-19	511960.3	6120312
Buteo buteo	1	Skrido-skrido	41-60		2023-06-19	512220.3	6118462
Buteo buteo	1	Kilo-skrido	41-60	Javai	2023-06-19	510464.1	6114947
Buteo buteo	2	Skrido-skrido	121-150		2023-06-19	509611.6	6110174
Buteo buteo	1	Skrido-skrido	101-120		2023-06-19	505035.9	6113613
Buteo buteo	1	Maitinosi	1-20		2023-06-23	510203.3	6114275
Buteo buteo	1	Skrido-skrido	21-40		2023-06-23	509957.4	6118479
Buteo buteo	1	Skrido-skrido	1-20		2023-06-23	512588.3	6120339
Buteo buteo	1	Skrido-skrido	81-100		2023-06-23	503963.4	6115096
Buteo buteo	1	Skrido-skrido	21-40		2023-06-23	506142.4	6114031
Buteo buteo	1	Skrido-skrido	41-60		2023-06-23	510824.1	6119569
Buteo buteo	2	Skrido-skrido	121-150		2023-06-30	514009.8	6120086
Buteo buteo	1	Skrido-skrido	21-40		2023-06-30	511825.1	6121692

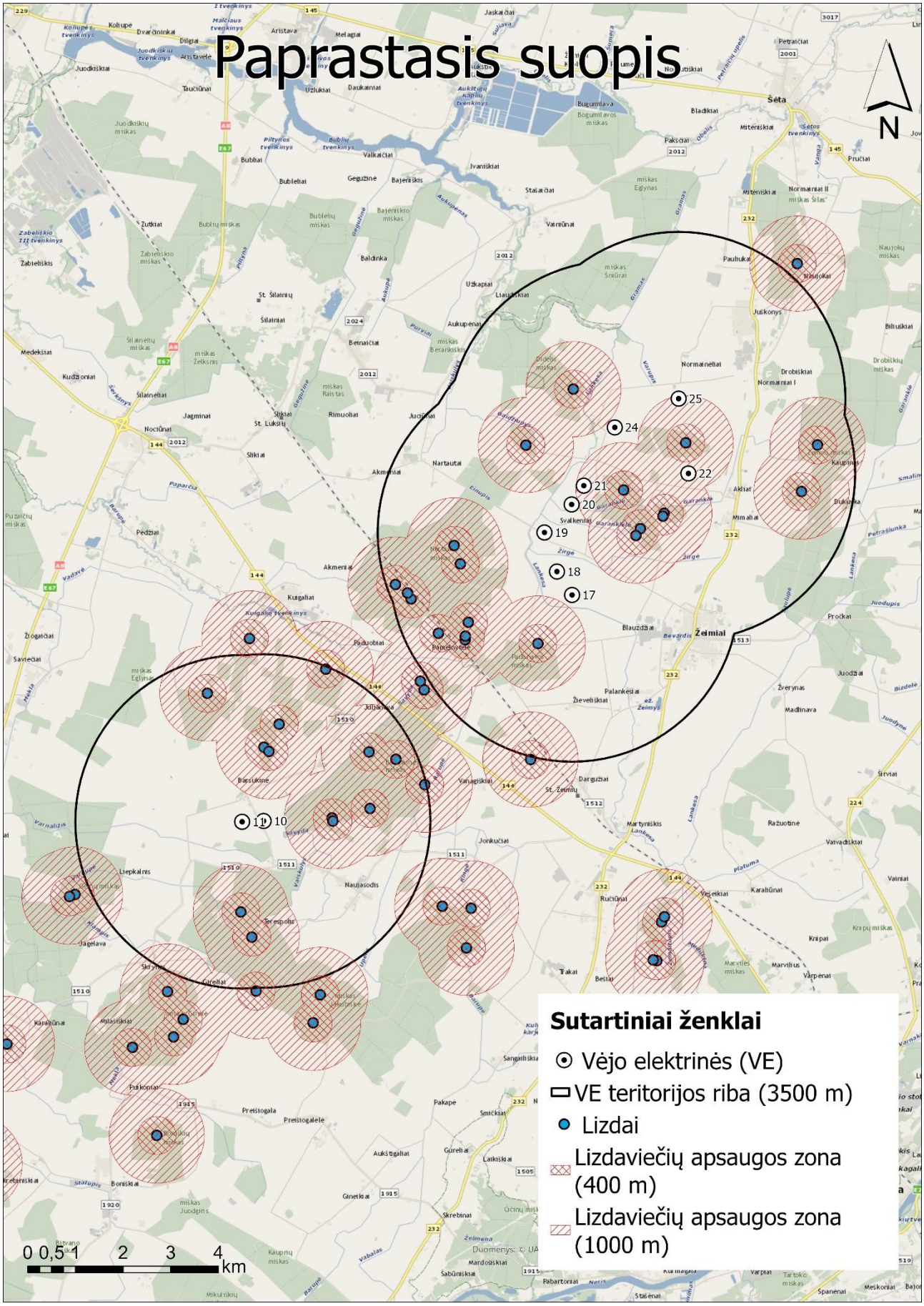
Rūšis	Skaičius	Elgsena	Skridimo aukštis	Buveinė	Stebėjimo data	X	Y
Buteo buteo	1	Kilo-skrido	21-40	Miškas	2023-06-30	512009.9	6118855
Buteo buteo	1	Skrido-skrido	61-80		2023-06-30	510521.6	6116065
Buteo buteo	1	Kilo-skrido	21-40		2023-06-30	509051.6	6113507
Buteo buteo	1	Skrido-skrido	41-60		2023-06-30	510038.5	6110977
Buteo buteo	1	Skrido-skrido	21-40	Javai	2023-06-30	504118.2	6116120
Buteo buteo	1	Skrido-skrido	81-100		2023-06-30	504300.9	6112195
Buteo buteo	1	Kilo-skrido	41-60		2023-06-30	505393.8	6110152
Buteo buteo	2	Skrido-skrido	101-120	Javai	2023-06-30	510164.1	6117082
Buteo buteo	1	Maitinosi	1-20		2023-06-30	512957.9	6111910
Buteo buteo	1	Kilo-skrido	1-20	Upė, griovys	2023-06-30	513155.6	6121412
Buteo buteo	1	Skrido-skrido	101-120		2023-06-23	504770.3	6115183
Buteo buteo	1	Skrido-skrido	121-150		2023-06-23	501789.2	6116347
Buteo buteo	1	Skrido-skrido	41-60		2023-07-01	504052.3	6115504
Buteo buteo	1		1-20	Javai	2023-07-01	504386.4	6110995
Buteo buteo	1	Maitinosi	1-20	Javai	2023-07-01	507141.9	6113902
Buteo buteo	1	Maitinosi	1-20	Ankštiniai	2023-07-01	509534.4	6112362
Buteo buteo	1	Kilo-skrido	1-20		2023-07-01	509892.3	6116159
Buteo buteo	2	Skrido-skrido	101-120	Javai	2023-07-01	510900.4	6117008
Buteo buteo	1	Skrido-skrido	61-80	Miškas	2023-07-01	512970.4	6120154
Buteo buteo	1	Skrido-skrido	21-40	Javai	2023-07-01	514671.3	6119345
Buteo buteo	1	Maitinosi	1-20	Javai	2023-07-03	511733	6120267
Buteo buteo	1	Skrido-tūpė	1-20	Javai	2023-07-03	512732.1	6120301
Buteo buteo	1	Skrido-skrido	41-60		2023-07-03	510153.5	6118930
Buteo buteo	1	Skrido-skrido	21-40		2023-07-03	511213.8	6115680
Buteo buteo	1	Skrido-skrido	61-80		2023-07-03	510080.7	6114066
Buteo buteo	1	Skrido-skrido	1-20		2023-07-03	504769.9	6115368
Buteo buteo	1	Skrido-skrido	21-40	Javai	2023-07-03	504341.3	6115773
Buteo buteo	1	Skrido-skrido	61-80		2023-07-07	511911.4	6111545
Buteo buteo	1	Kilo-skrido	1-20	Javai	2023-07-07	512723.1	6115328
Buteo buteo	1	Kilo-skrido	21-40		2023-07-07	513683.1	6119646
Buteo buteo	1	Skrido-skrido	61-80	Javai	2023-07-08	513312.2	6122749
Buteo buteo	1	Skrido-skrido	41-60	Javai	2023-07-08	512660.5	6122171
Buteo buteo	3	Skrido-skrido	1-20		2023-07-08	511895.3	6119856
Buteo buteo	1	Skrido-skrido	41-60		2023-07-07	512286	6118389
Buteo buteo	2	Skrido-skrido	21-40		2023-07-08	509907.8	6116774
Buteo buteo	1	Skrido-skrido	41-60		2023-07-22	509232.2	6114445
Buteo buteo	2	Skrido-skrido	61-80	Miškas	2023-07-22	508977	6110068
Buteo buteo	1	Maitinosi	1-20		2023-07-22	506148.7	6111890
Buteo buteo	2	Skrido-skrido	41-60		2023-07-22	505017.5	6111292
Buteo buteo	1	Skrido-skrido	81-100		2023-07-22	504473.4	6115259
Buteo buteo	1	Maitinosi	1-20		2023-07-22	505175.3	6116586
Buteo buteo	2	Kilo-skrido	1-20		2023-07-22	511253.5	6119219
Buteo buteo	1	Skrido-skrido	41-60		2023-07-22	512904.2	6120488
Buteo buteo	2	Skrido-skrido	21-40		2023-07-23	515638.7	6120683
Buteo buteo	1	Skrido-skrido	41-60		2023-07-23	516376	6120623
Buteo buteo	1	Skrido-skrido	21-40	Javai	2023-07-23	512978.4	6119240
Buteo buteo	1	Skrido-skrido	41-60		2023-07-23	513398.4	6116361
Buteo buteo	1	Kilo-skrido	1-20	Miškas	2023-07-23	508596.6	6118058

Rūšis	Skaičius	Elgsena	Skridimo aukštis	Buveinė	Stebėjimo data	X	Y
Buteo buteo	1	Skrido-skrido	21-40		2023-07-23	506940.8	6116416
Buteo buteo	1	Kilo-skrido	1-20		2023-07-23	506262.2	6114071
Buteo buteo	2	Skrido-skrido	21-40		2023-07-23	504785.8	6112924
Buteo buteo	2	Skrido-skrido	1-20		2023-07-28	505305.7	6110070
Buteo buteo	1	Kilo-skrido	1-20	Miškas	2023-07-28	503777.5	6111274
Buteo buteo	2	Skrido-skrido	41-60		2023-07-28	504949.6	6115204
Buteo buteo	1	Skrido-skrido	21-40		2023-07-28	506829.2	6115756
Buteo buteo	1	Skrido-skrido	61-80		2023-07-28	510521.3	6113481
Buteo buteo	3	Skrido-skrido	41-60		2023-08-07	508060.2	6112029
Buteo buteo	1	Skrido-skrido	21-40		2023-08-07	507820	6114568
Buteo buteo	1	Maitinosi	1-20	Javai	2023-08-07	503418.8	6117300
Buteo buteo	1	Skrido-skrido	21-40		2023-08-07	503050.4	6112737
Buteo buteo	1	Skrido-skrido	1-20	Miškas	2023-08-07	504296.8	6110081
Buteo buteo	1	Skrido-skrido	21-40		2023-08-07	510955.3	6109140
Buteo buteo	2	Skrido-skrido	61-80	Javai	2023-08-07	513632	6118399
Buteo buteo	2	Skrido-skrido	21-40	Javai	2023-08-07	509500.6	6113781
Buteo buteo	1	Skrido-skrido	61-80	Javai	2023-08-11	509171.5	6109119
Buteo buteo	3		101-120	Miškas	2023-08-11	508069.8	6113174
Buteo buteo	1	Skrido-skrido	61-80	Javai	2023-08-11	503041.5	6116187
Buteo buteo	1	Maitinosi	1-20	Javai	2023-08-11	506859	6114984
Buteo buteo	1	Skrido-skrido	61-80	Ankštiniai	2023-08-11	512133.1	6111900
Buteo buteo	1	Kilo-skrido	1-20	Javai	2023-08-11	510482.4	6117683
Buteo buteo	2	Skrido-skrido	61-80	Javai	2023-08-12	514137.2	6122033
Buteo buteo	1	Skrido-skrido	41-60		2023-08-12	514980.6	6119450
Buteo buteo	2	Skrido-skrido	41-60		2023-08-12	511775.7	6116495
Buteo buteo	3	Skrido-skrido	61-80		2023-08-12	506421.4	6113518
Buteo buteo	1	Skrido-skrido	81-100		2023-08-12	503671.2	6110435
Buteo buteo	2	Skrido-skrido	21-40		2023-08-12	505962.1	6111158
Buteo buteo	4	Skrido-skrido	61-80	Miškas	2023-08-19	504693.1	6116153
Buteo buteo	1	Skrido-skrido	21-40		2023-08-19	506473.1	6115406
Buteo buteo	3	Skrido-skrido	41-60		2023-08-19	506464.9	6113091
Buteo buteo	3	Skrido-skrido	61-80		2023-08-19	512140.1	6117988
Buteo buteo	1	Maitinosi	1-20		2023-08-19	511017.1	6120478
Buteo buteo	1	Skrido-skrido	41-60	Javai	2023-08-19	514384.5	6119785
Buteo buteo	1	Skrido-skrido	21-40		2023-08-19	515647	6121218
Buteo buteo	3	Skrido-skrido	61-80		2023-08-21	516008.7	6118949
Buteo buteo	2	Skrido-skrido	41-60	Miškas	2023-08-21	512478.9	6119299
Buteo buteo	4	Skrido-skrido	81-100	Javai	2023-08-25	512761.1	6120964
Buteo buteo	2	Skrido-skrido	101-120	Javai	2023-08-25	512925.6	6119834
Buteo buteo	1	Kilo-skrido	1-20		2023-08-25	513283.6	6118562
Buteo buteo	1	Kilo-skrido	1-20	Upė, griovys	2023-08-25	510768.3	6118424
Buteo buteo	3	Skrido-skrido	41-60	Javai	2023-08-25	510265.9	6114811
Buteo buteo	1	Skrido-skrido	1-20		2023-08-25	509003.7	6112810
Buteo buteo	2	Kilo-skrido	21-40		2023-08-25	505477.1	6111898
Buteo buteo	1	Skrido-skrido	61-80		2023-08-25	504793.4	6115282
Buteo buteo	3	Skrido-skrido	101-120	Miškas	2023-08-26	506034.4	6114219
Buteo buteo	1	Skrido-skrido	81-100		2023-08-26	507119.3	6111161
Buteo buteo	2	Skrido-skrido	41-60		2023-08-26	503555.3	6115256

Rūšis	Skaičius	Elgsena	Skridimo aukštis	Buveinė	Stebėjimo data	X	Y
Buteo buteo	1	Skrido-skrido	61-80	Javai	2023-08-26	510023.1	6117927
Buteo buteo	5	Skrido-skrido	121-150	Miškas	2023-08-26	511275.2	6121134
Buteo buteo	1	Maitinosi	1-20	Javai	2023-08-26	513654.3	6119374
Buteo buteo	1	Skrido-skrido	61-80	Javai	2023-08-26	514437.1	6118321
Buteo buteo	1	Maitinosi	1-20	Javai	2023-08-26	506013.6	6113508
Buteo buteo	4	Skrido-skrido	121-150	Miškas	2023-08-26	504136.6	6110390
Buteo buteo	1	Skrido-skrido	61-80		2023-08-26	509054	6113099
Buteo buteo	2	Skrido-skrido	81-100		2023-08-26	513595.9	6123580
Buteo buteo	1	Kilo-skrido	1-20	Miškas	2023-08-25	509384.3	6119105
Buteo buteo	2	Skrido-skrido	121-150		2023-08-19	504978.9	6118961



8 pav. Paprastųjų suopių stebėjimo vietos



9 pav. Paprastųjų suopių lizdavietės

Kiti plėšrieji paukščiai

Nors kitų plėšriųjų rūšių paukščiai planuojamo VE parko teritorijoje (3,5 km nuo VE parko ribų) nerasti perint, kai kurie stebėti ir veisimosi metu. Tačiau jų praskridimo pro VE teritoriją atvejai reti, dažniausiai atsitiktiniai, kiek dažniau šie plėšrieji paukščiai matyti rudeninių ir pavasarinių perskridimų, migracijų metu, tačiau taip pat negausiai.

Vapsvaėdis (*Pernis apivorus*) planuojamo VE parko teritorijoje matytas tik kartą. Į atviras vietas išskrenda retai, bet gali maitintis gana toli nuo perimvietės. Gali skristi iki 200 metrų aukštyje. Šios rūšies paukščiai gana jautrūs VE poveikiui migracijos ir sklandymo metu, tačiau atvirose vietose vapsvaėdžiai maitinasi nedažnai, paprastai nuo žemės, o teritoriniai skrydžiai dažniausiai vyksta virš miškų. Atvirose vietose vapsvaėdžiai maitinasi ir skraido nedažnai, paprastai maitinasi nuo žemės, o iš miško išskrenda nepavojingame, iki 70 m aukštyje.

Atsižvelgiant į tai, neigiamas planuojamo VE parko poveikis vapsvaėdžiams neprognozuojamas.

Vištvanagis (*Accipiter gentilis*) planuojamo VE parko teritorijoje matytas tik kartą (ne perėjimo metu), neigiamas planuojamo VE parko poveikis rūšiai neprognozuojamas.

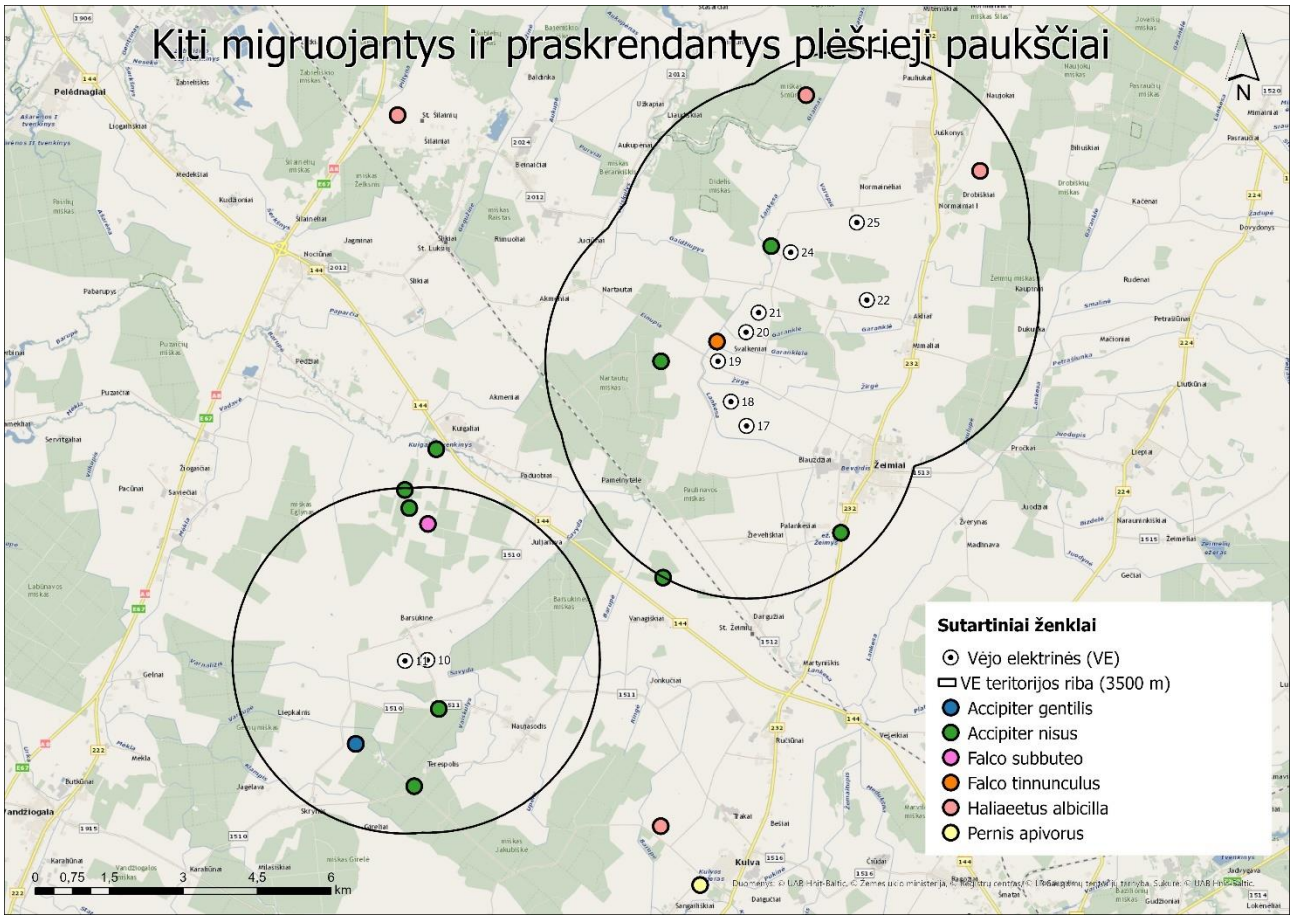
Paukštvanagis (*Accipiter nisus*) planuojamo VE parko teritorijoje matomas reguliariai, bet tik pavieniai paukščiai. Dažnesnis rudenį, tačiau matomas ir perėjimo metu, nes tinkamų biotopų yra pakankamai. Kadangi rūšis maitinasi dažniausiai žemai želdiniuose, neigiamas planuojamo VE parko poveikis rūšiai neprognozuojamas.

Sketsakalis (*Falco subbuteo*), pelėsakalis (*Falco tinnunculus*). Abiejų rūšių paukščiai matyti tik po vieną kartą (veisimosi metu), tačiau planuojamo VE parko teritorijoje apie jų perėjimą duomenų nėra, todėl neigiamas planuojamo VE parko poveikis rūšims neprognozuojamas.

7 lentelė. Kitų plėšriųjų paukščių stebėjimo vietų planuojamo VE parko teritorijoje suvestinė:

Rūšis	**Skaičius**	**Elgsena**	**Skridimo aukštis**	**Buveinė**	**Stebėjimo data**	**Pastabos**	**X**	**Y**
Accipiter gentilis	1	Skrido-skrido	21-40		2022-11-19	Skrido miško link	503612.7	6110464
Accipiter nisus	1	Skrido-skrido	1-20	Ežeras	2022-10-01		505245.5	6116437
Accipiter nisus	1	Skrido-skrido	61-80	Miškas	2022-10-08		504609.9	6115608
Accipiter nisus	1	Skrido-skrido	1-20	Miškas	2022-11-20		504798.8	6109610
Accipiter nisus	1	Skrido-skrido	61-80	Miškas	2022-10-08	Suka ratus virš miško	509803.8	6118215
Accipiter nisus	1	Skrido-skrido	1-20		2022-11-26	Skrido tarp kelio ir miško	505297.8	6111173
Accipiter nisus	1	Skrido-skrido	61-80	Miškas	2023-05-28	Suka ratus virš miško	509847.5	6113831
Accipiter nisus	1	Maitinosi	1-20	Pieva	2023-07-03	Medžiojo želdinių ir pievos sandūroje	512040.9	6120549
Accipiter nisus	1	Skrido-skrido	1-20	Gyvenvietė	2023-08-25		513449.7	6114745
Accipiter nisus	1	Kilo-skrido	1-20		2023-08-12		504703	6115244
Falco subbuteo	1	Skrido-skrido	101-120		2023-05-12	V kryptis	505080.5	6114920
Falco tinnunculus	1	Skrido-skrido	21-40		2023-08-12	R kryptis, 1	510938.5	6118617
Haliaeetus albicilla	1	Skrido-skrido	81-100		2022-10-08	Skrido 1 senas link Kaplių.	512749.2	6123608
Haliaeetus	2	Skrido-			2023-05-26	V kryptis, 2 jauni	516276.2	6122075

Rūšis	Skaičius	Elgsena	Skridimo aukštis	Buveinė	Stebėjimo data	Pastabos	X	Y
albicilla		skrido						
Haliaeetus albicilla	3	Skrido-skrido	101-120		2023-07-22	1 senas ir 2 jauni sklando.	504467.1	6123204
Haliaeetus albicilla	1	Kilo-tūpė		Javai	2023-09-29		509801.2	6108800
Pernis apivorus	1	Skrido-skrido	41-60	Javai	2023-09-29	PV kryptis	510598.8	6107604



10 pav. Kitų plėšriųjų paukščių stebėjimo vietos

3. KITŲ PERINČIŲ PAUKŠČIŲ TYRIMŲ REZULTATAI

Planuojamo VE parko teritorija nepasižymi didele perinčių paukščių įvairove, daugiausiai čia aptinkami įprasti agrarinio ir miškingo kraštovaizdžio paukščiai, kurie nėra jautrūs VE parkų poveikiui ir dėl šios priežasties šioje ataskaitoje plačiau neaptariami. Visoje VE parko teritorijoje peri įprastos agrarinio ir atviro kraštovaizdžio paukščių rūšys, o vietose, kur yra medžių – ir įprastos miško paukščių rūšys. Dažniausios teritorijoje perinčios rūšys: dirvinis vieversys (*Alauda arvensis*), šelmeninė kregždė (*Hirundo rustica*), baltoji kielė (*Motacilla alba*), juodasis strazdas (*Turdus merula*), paprastoji liepsnelė (*Erithacus rubecula*), lakštingala (*Luscinia svecica*), pilkoji musinukė (*Muscicapa striata*), kiauliukė (*Saxicola ruberta*), karklinė nendrinukė (*Acrocephalus palustris*), pilkoji devynbalsė (*Sylvia curruca*), rudoji devynbaslė (*Sylvia communis*), sodinė devynbalsė (*Sylvia borin*), juodagalvė devynbalsė (*Sylvia atricapilla*), pilkoji pečialinda (*Phylloscopus collybita*), didžioji zylė (*Parus major*), paprastoji medšarkė (*Lanius collurio*), pilkoji varna (*Corvus*

cornix), paprastasis varnėnas, eurazinis karklažvirblis (*Passer montanus*), kikilis, žaliukė, čivylis, geltonoji starta (*Emberiza citrinella*), nendrinė starta (*Emberiza schoeniclus*) ir kt.

Be teritorijoje gausiai perinčių įprastų agrarinio kraštovaizdžio ir miško paukščių rūšių, tyrimų metu buvo aptikta ir keletas saugomų bei retesnių, taip pat VE poveikiui jautrių rūšių, kurios apžvelgiamos žemiau.

Gandriniai paukščiai

Planuojamo VE parko teritorijoje aptinkamos abi gandrų rūšys – juodasis gandras ir baltasis gandras. Jei baltieji gandrai čia gana įprasti, juodieji gandrai registruoti tik kelis kartus, o vieninteliame teritorijoje žinomame lizde 2023 ir 2024 m. neperėjo.

Juodasis gandras (*Ciconia nigra*)

Juodasis gandras planuojamo VE parko teritorijoje iš viso stebėtas tik 3 kartus (visus kartus – veisimosi metu). Teritorijoje vienas žinomas lizdas 2023 m. buvo neužimtas, o kiti artimiausi užimti lizdai buvo žinomi toliau nei 3, 5 km nuo artimiausių numatytų VE vietų.

Juodieji gandrai gali maitintis toli nuo perėjimo vietos, iki 10–15 km atstumu, o mitybai naudoti nedideles pelkutes, griovių pakraščius, laukų želdinius prie upių, upelių ir griovių. Juodieji gandrai į maitinimosi vietas paprastai perskrenda neaukštai, iki 100 m aukštyje, tačiau sklandydami ar perskrisdami tolimesniais atstumais gali pakilti virš 1 km.

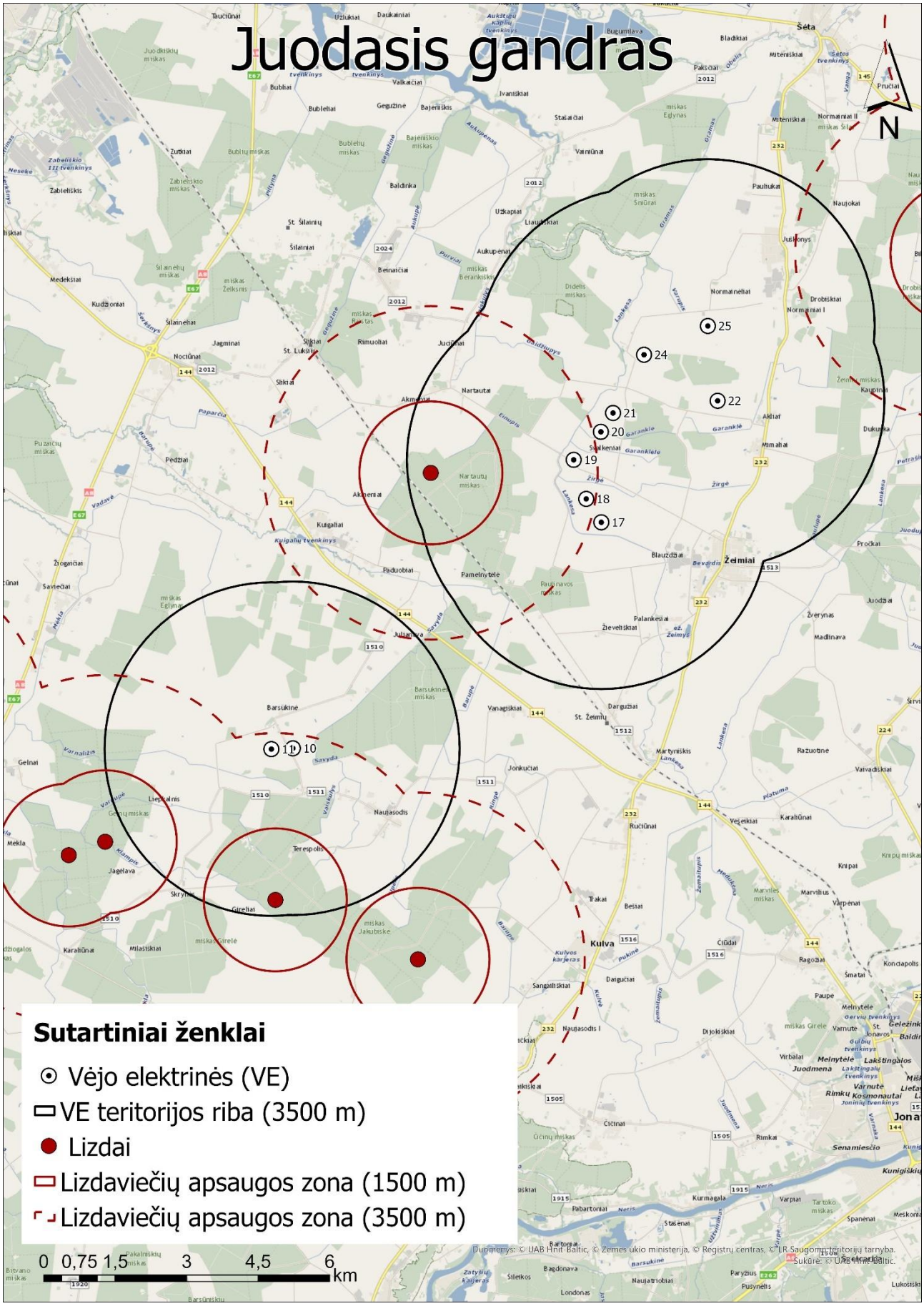
Juodasis gandras yra itin jautri VE poveikiui paukščių rūšis, bet planuojamo VE parko teritorijoje stebimas labai retai. Šie paukščiai itin vengia bet kokių antropogeninių veiksnių paliestų teritorijų. Nors atsižvelgiant į stebėjimų rezultatus neigiamas planuojamo VE parko poveikis rūšiai neprognozuojamas, tačiau VE Nr. 14, 15, 16, planuotų anksčiau, yra atsisakyta.

8 lentelė. Juodųjų gandrų lizdaviečių stebėjimo planuojamo VE parko teritorijoje suvestinė:

Rūšis	**Skaičius**	**Pastabos**	**Duomenų pateikimo data**	**X**	**Y**
Ciconia nigra	1	2023 m. neužimtas, 2021 m. perėjo.	2023-08-26	507962.7	6117945
Ciconia nigra	1	2023 m. lizde perėjo, lizdas ąžuole.	2023-08-26	500362.8	6109925
Ciconia nigra	1	2023 m. lizde perėjo	2024-02-24	507691	6107735

Juodųjų gandrų stebėjimo vietų planuojamo VE parko teritorijoje suvestinė:

Rūšis	**Skaičius**	**Elgsena**	**Skridimo aukštis**	**Buveinė**	**Stebėjimo data**	**Pastabos**	**X**	**Y**
Ciconia nigra	1	Skrido-skrido	>200	Miškas	2023-04-29	Skrido aukštai į pietvakarius.	508406.9	6117269
Ciconia nigra	1	Skrido-skrido	151-200		2023-06-02	Skrido į vakarus.	502899.4	6110521
Ciconia nigra	1		101-120	Miškas	2023-07-01	Sklendė į pietus.	501485.5	6113617


Juodasis gandras
N
Sutartiniai ženklai
Vėjo elektrinės (VE)
VE teritorijos riba (3500 m)
Lizdai
Lizdaviečių apsaugos zona (1500 m)
Lizdaviečių apsaugos zona (3500 m)
0 0,75 1,5 3 4,5 6 km
Duomenys: © UAB Hnit Baltic, © Žemės ukio ministerija, © Registrų centras, © LR Saugomų teritorijų tarnyba.
Sukūrė: © UAB Hnit Baltic.
Žeimiai
Kulva
Barsukinė
Nartautai
Akmenėnai
Šėta
Šilainiai
Kudžionai
Jagminai
Pėdžiai
Kurgaliai
Pamelytelė
Dargužiai
Naujasodis
Terespolis
Gireliai
Karalūnai
Ručiūnai
Rimkai
Senamiestis
Kunigiškių
Londonas
Paryžius
Bagdonava
Šiletkos
Stasėnai
Kurmagala
Varpai
Spanėnai
Meskonai
Rimkų Kosmonautai
Juodmena
Melnytėlė
Lakštingalos
Virbalai
Marvilius
Vėrpėnai
Knipai
Paupe
Šmatai
Konciapolis
Ragožai
Čičiūdai
Čičinat
Dijokiškiai
Naujasodis I
Sangailiškiai
Daigučiai
Tiakai
Beišai
Jonkučiai
Vanagiškiai
St. Žeimių
Martyniškis
Ražuotinė
Vaivadiškiai
Karalūnai
Vejetkiai
Palankesiai
Žieveliškiai
Blauzdžiai
Paduobiai
Savydos
Juliupėnai
Gelnai
Mekla
Liepalnis
Jagelava
Skrylai
Milašiškiai
Žiogaičiai
Savičiai
Pūzaičių miškas
Medekšiai
Žutkiai
Žabeliškis
Bubliai
Bubeliai
Gegužinė
Bajeriškis
Valkačiai
Ivantiškiai
Stasiačiai
Varniūnai
Paulikai
Naujokai
Normaniai II
Mitenškiai
Pručiai
Paksčiai
Bladikiai
Užlukiai
Daukantiai
Taučiūnai
Juodkiškių miškas
Bubliškio miškas
Baldinka
Uškapiai
Liaudiškiai
Aukupėnai
Betnaičiai
Šilainių
Šilainiai
Šilainėnų miškas
Šilainėliai
Šiliai
St. Lukšiai
Rimuotiai
Judčiai
Nociūnai
Akmenėnai
Normanėliai
Normaniai I
Drobiškiai
Didelis miškas
Miškas Šnūrai
Miškas Egliynas
Miškas Girele
Miškas Jakubiškė
Miškas Berankiškių
Miškas Bajeriškio
Miškas Želkšnis
Miškas Bastas
Bubelių miškas
Barsukinės miškas
Pavilnio miškas
Pakalniškių miškas
Bitvano miškas
Barsūniškių
Šėtos tvenkinys
Aukštųjų Kūpilių tvenkinys
Zabeliškio III tvenkinys
Kulgalių tvenkinys
Gervių tvenkinys
Gulbių tvenkinys
Joninių tvenkinys
Lakštingalų tvenkinys
Kulvos karjeras
Žemaitupis
Nemunėlis
Nemunupys
Paparčia
Vadavė
Varnalizis
Mekla
Klampis
Girelė
Pukinė
Platuma
Lankesa
Garanklė
Garanklėlė
Žirgė
Žiurgė
Žvirblė
Bevardis
Ežerėlis
Žeimys
Kuliavė
Varnutė
Melnytėlė
Juodmena
Rimkų
Kuliavė
Neris
Nemunėlis
Aukupėnas
Gegužinė
Pilvyna
Auksinė
Gramas
Lankesa
Varnupė
Barupė
Savydos
Vaivadiškių
Ručiūnai

Planuojamo VE parko teritorijoje baltųjų gandrų lizdų beveik nėra, visi jie išsidėstę kiek toliau nuo numatytų VE vietų.

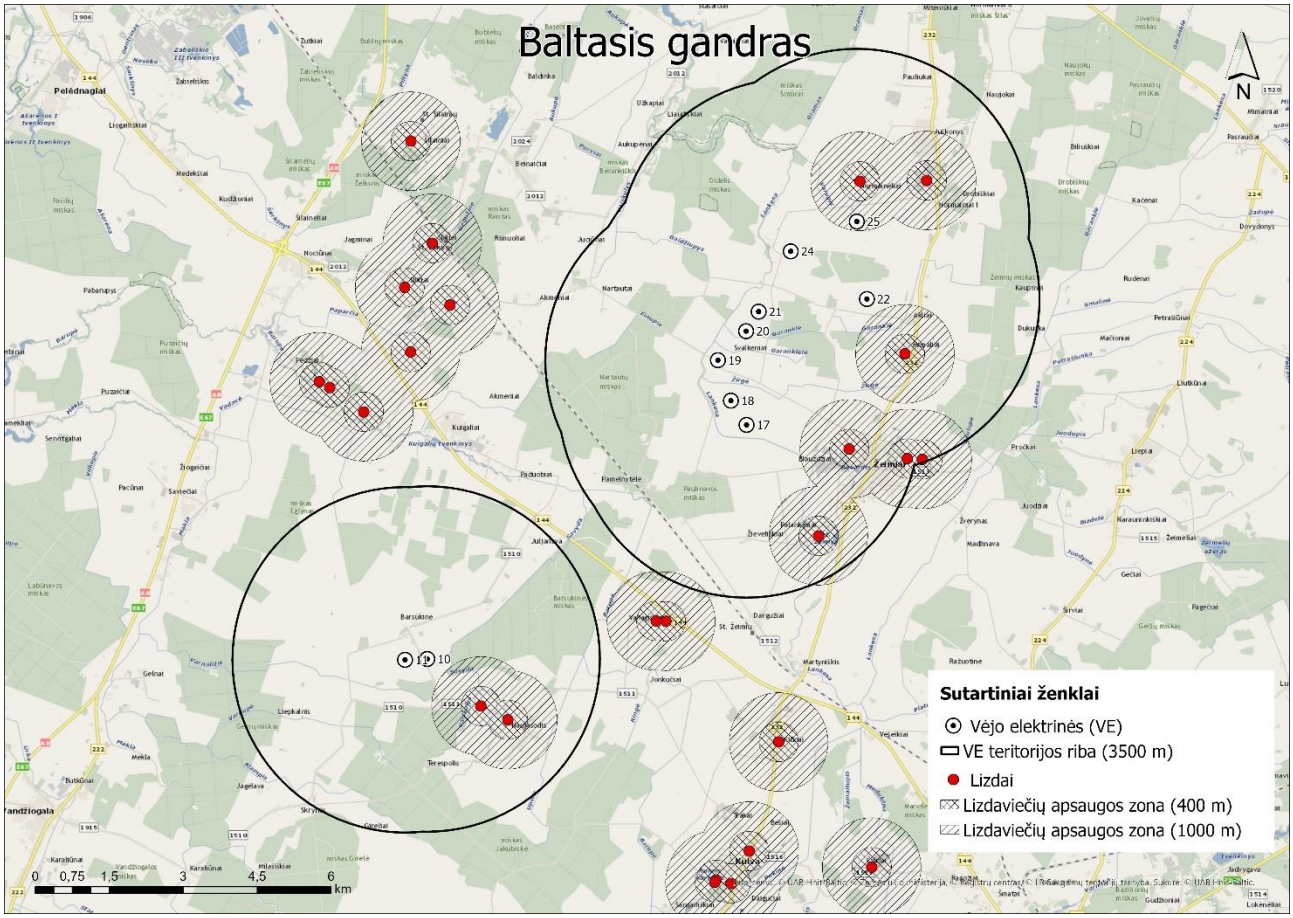
Baltieji gandrai maitinasi dirbamuose laukuose, pievose, pagrioviuose ir vandens telkinių pakrantėse, tačiau esant pakankamai maisto, laikosi netoli nuo lizdų. Priklausomai nuo sezono ir klimatinių sąlygų, esant maisto trūkumui, gali skristi maitintis toli nuo lizdo, kasdien sklando iki 1 km aukštyje. Itin plačiai pasklinda maitintis pievų šienavimo ir derliaus nukūlimo metu.

PŪV zonoje neperinčių baltųjų gandrų būriai stebėti nebuvo, planuojamų VE vietose šios rūšies paukščiai nesimaitino arba stebėti tik pavieniai. Kiek dažniau planuojamo VE parko teritorijoje rūšis matyta perskridimų metu.

Kadangi baltieji gandrai yra jautrūs VE poveikiui, VE parkas gali turėti reikšmingą neigiamą poveikį baltiesiems gandrams (yra pavienių tiesioginių susidūrimų grėsmė).

9 lentelė. Baltųjų gandrų lizdaviečių stebėjimo planuojamo VE parko teritorijoje suvestinė:

Rūšis	**Skaičius**	**Pastabos**	**Duomenų pateikimo data**	**X**	**Y**
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	506700.8	6110933
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	506153.8	6111213
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	503776.7	6117174
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	503086.2	6117664
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	502875.4	6117780
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	504729.8	6118383
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	512191.6	6110483
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	511218.9	6107616
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	511594.6	6108272
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	509902.9	6112927
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	509708.1	6112935
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	512997.7	6114661
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	513622.2	6116421
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	514796.2	6116226
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	515104.8	6116209
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	514751.7	6118346
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	513836.9	6121843
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	515193.6	6121861
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	505526.2	6119337
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	504605	6119693
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	505169.1	6120589
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	504732.9	6122656
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	510924.4	6107691
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	510896.1	6107643
Ciconia ciconia	2	2 ad. + juv.	2023-07-03	514076.5	6107947



12 pav. Baltųjų gandrų lizdų vietos

Vandens ir pakrančių paukščiai

Planuojamo VE parko teritorijoje nėra tinkamų vandens paukščiams perėti biotopų, vieninteliame didesniame Kuigalių tvenkinyje perint aptiktos tik didžiosios antys.

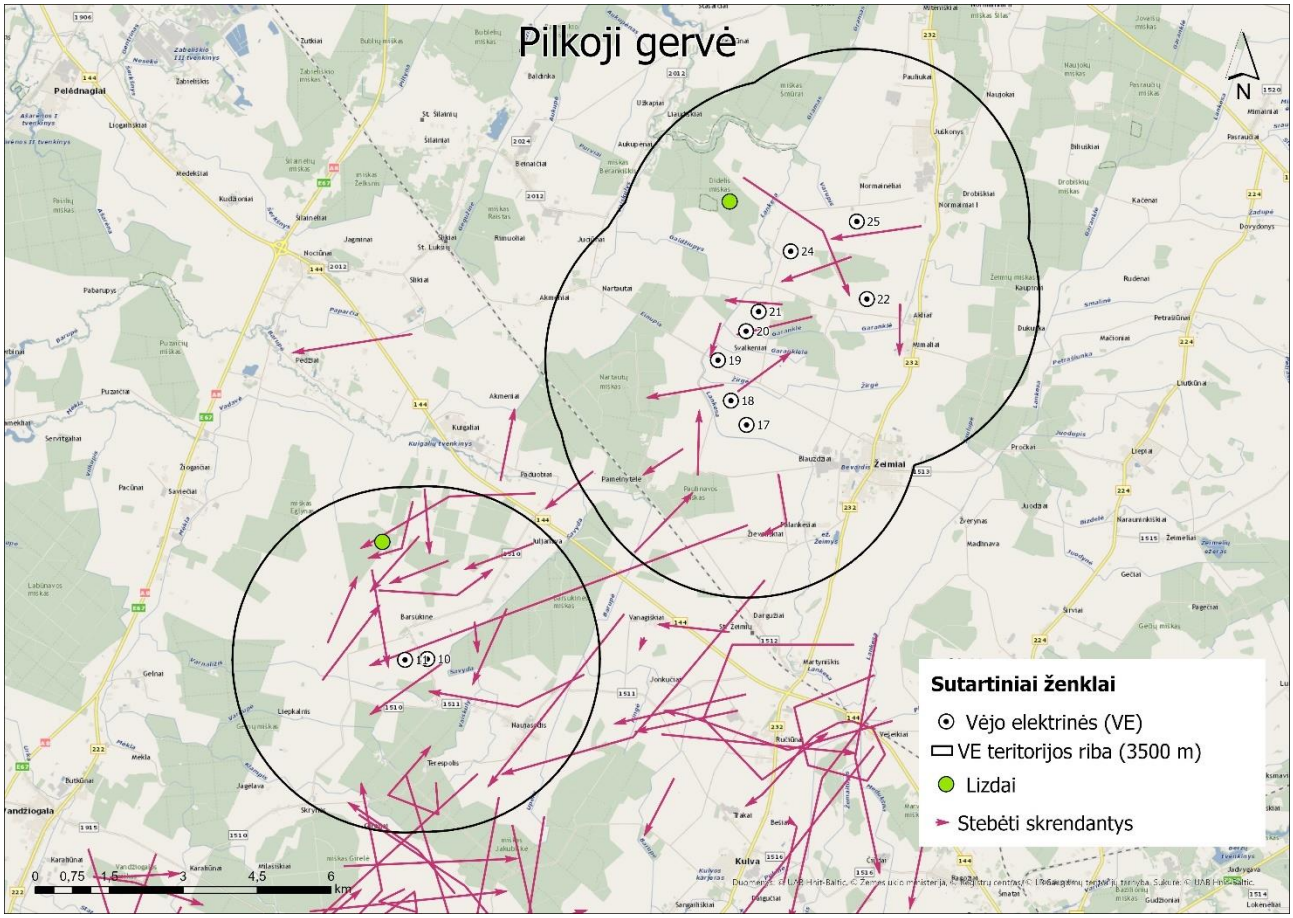
<u>Pilkoji gervė (*Grus grus*)</u>

Teritorijoje nebuvo vykdomos tikslinės perinčių pilkųjų gervių apskaitos, tačiau čia patikimai nustatytos dviejų perinčių porų lizdinės teritorijos. Manoma, kad aplinkinėse teritorijose peri ir daugiau pilkųjų gervių porų. Tiek perėjimo metu, tiek su jaunikliais, pilkosios gervės maitinasi apylinkėse gana plačiai, nevengia dirbamų laukų ir pievų, tačiau planuojamo VE parko teritorijoje tokių vietų nenustatyta. Manoma, kad čia perinčios pilkosios gervės maitinimuisi pasirinko kitas teritorijas.

Atsižvelgiant į tai, kad perėjimo metu pilkosios gervės dažniausiai skrenda neaukštai (paprastai iki 50–100 m aukštyje), VE parkas galėtų turėti įtakos paukščių mitybai, bet susidūrimo su VE rizika perėjimo metu turėtų būti vertinama kaip minimali (dėl nedidelio perinčių porų skaičiaus).

9 lentelė.Perinčių pilkųjų gervių stebėjimų planuojamo VE parko teritorijoje suvestinė:

Rūšis	**Skaičius**	**Pastabos**	**Duomenų pateikimo data**	**X**	**Y**
Grus grus	1 pora	Lizdinė teritorija, matyta ir pora su jaunikliais.	2023-05-28	511197.8	6121433
Grus grus	1 pora	Teritorinis elgesys, tikėtina lizdo vieta.	2023-05-28	504153.6	6114536



13 pav. Pilkųjų gervių perėjimo vietos ir skridimo kryptys (aptariamos prie migruojančių paukščių)

Griežlė (*Crex crex*)

Planuojamoje VE parko teritorijoje tai retai aptinkamas paukštis, jam nėra pakankamai tinkamų biotopų, nes atvirame kraštovaizdyje vyrauja gana intensyvus žemės ūkis. Perinčių griežlių tyrimai atlikti visoje teritorijoje prioritetą teikiant buveinėms, tinkančioms griežlėms perėti – pievoms, ganyklomss. Apskaitos buvo pradedamos likus valandai iki saulės laidos ir tęsiamos iki 2 val. nakties. Iš viso rasti 3 griežiantys patinai, o jų radavietės pažymėtos 11 paveiksle.

VE veikla griežlių perėjimui ir mitybai reikšmingos įtakos nedarys, jei nebus pakeistos esamos gamtinės buveinės (pievos, ganyklos), jų hidrologinis režimas ir statybos nebus vykdomos griežlių perėjimo metu (gegužės 1 d. – rugpjūčio 1 d.).

10 lentelė. Griežlių patinų registracijos vietų planuojamo VE parko teritorijoje suvestinė:

Rūšis	**Skaičius**	**Pastabos**	**Duomenų pateikimo data**	**X**	**Y**
Crex crex	1 patinas	Perėjimo sezono metu reguliariai girdėtas 1 patino balsas.	2023-06-18	502703.9	6109664
Crex crex	1 patinas	Tuoktuvinis balsas, girdėtas reguliariai.	2023-06-18	510398.6	6116747
Crex crex	1 patinas	Tuoktuvinis balsas, girdėtas reguliariai.	2023-06-18	511861.1	6119850

Kiti retesni ir VE poveikiui jautresni perintys paukščiai

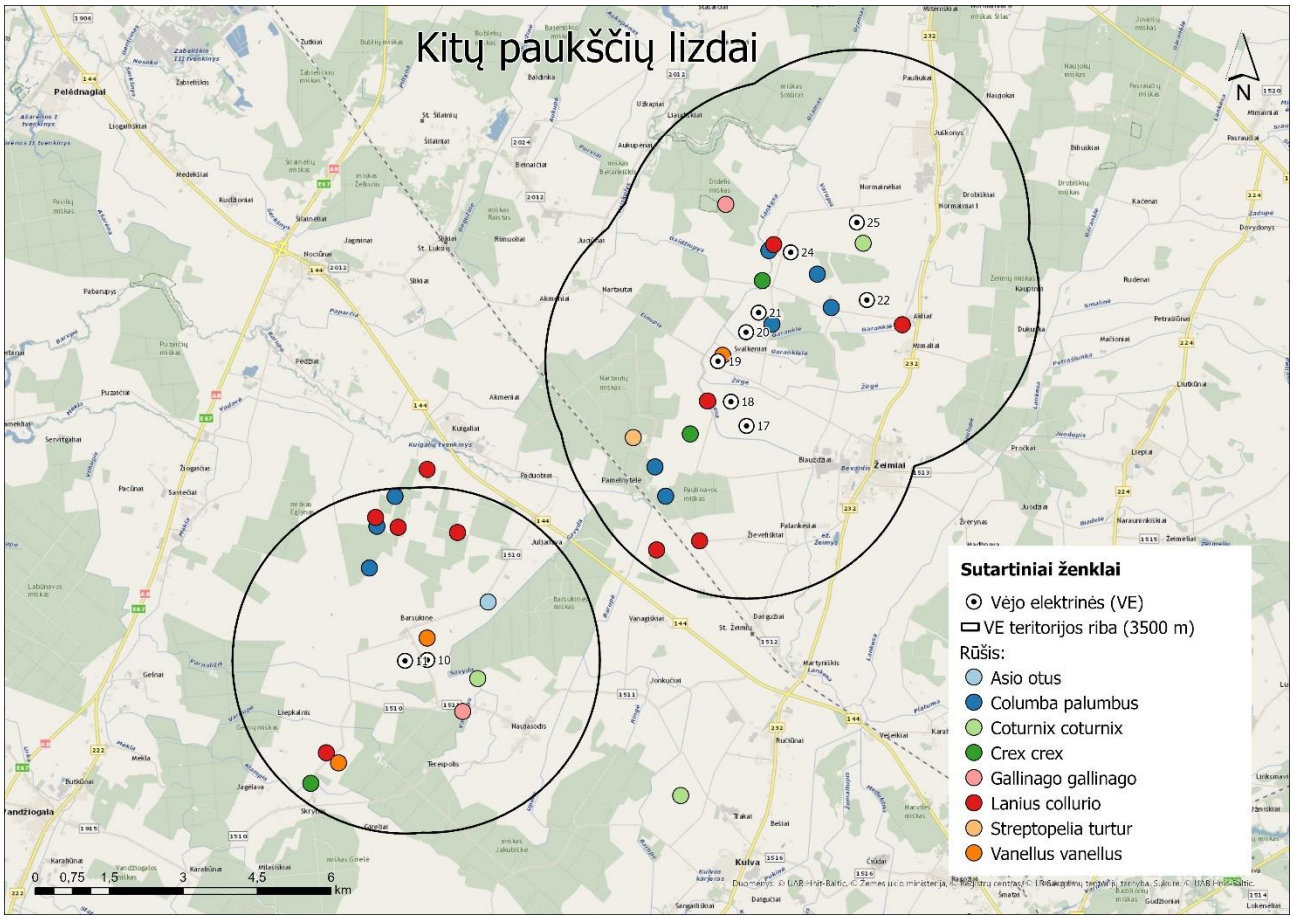
Planuojamoje VE parko teritorijoje aptinkami ir kiti retesni perintys paukščiai: putpelė (*Coturnix coturnix*), paprastoji pempė (*Vanellus vanellus*), perkūno oželis (*Gallinago gallinago*), mažasis apuokas (*Asio otus*), keršulis (*Columba palumbus*), paprastasis purplelis (*Streptopelia turtur*), paprastoji medšarkė (*Lanius collurio*).

Minėtoms rūšims dėl jų negausaus paplitimo ir atsižvelgiant į numatytas VE vietas, reikšmingas neigiamas planuojamo VE parko poveikis neprognozuojamas.

Kitų retesnių ir VE jautrių rūšių paukščių perėjimo vietų planuojamo VE parko teritorijoje suvestinė:

Rūšis	**Skaičius**	**Pastabos**	**Stebėjimo data**	**X**	**Y**	**Tipas**
Asio otus	3	Jaunikliai prie lizdo.	2023-06-19	506300.4	6113342	Jaunikliai
Columba palumbus	1	Reguliariai girdėtas tuoktuvinis balsas, tikėtina lizdo vieta.	2023-06-10	503889.1	6114027	Patinas
Columba palumbus	1	Reguliariai girdėtas tuoktuvinis balsas, tikėtina lizdo vieta.	2023-06-10	504042.7	6114872	Patinas
Columba palumbus	1	Reguliariai girdėtas tuoktuvinis balsas, tikėtina lizdo vieta.	2023-06-10	504411.8	6115480	Patinas
Columba palumbus	1	Reguliariai girdėtas tuoktuvinis balsas, tikėtina lizdo vieta.	2023-06-10	509681.4	6116080	Patinas
Columba palumbus	1	Reguliariai girdėtas tuoktuvinis balsas, tikėtina lizdo vieta.	2023-06-10	509897.4	6115484	Patinas
Columba palumbus	1	Reguliariai girdėtas tuoktuvinis balsas, tikėtina lizdo vieta.	2023-06-10	512056	6118966	Patinas
Columba palumbus	1	Reguliariai girdėtas tuoktuvinis balsas, tikėtina lizdo vieta.	2023-06-10	511991	6120464	Patinas
Columba palumbus	1	Reguliariai girdėtas tuoktuvinis balsas, tikėtina lizdo vieta.	2023-06-10	512975.7	6119981	Patinas
Columba palumbus	1	Reguliariai girdėtas tuoktuvinis balsas, tikėtina lizdo vieta.	2023-06-10	513257.6	6119302	Patinas
Coturnix coturnix	1	Tuoktuvinis balsas, girdėtas reguliariai.	2023-06-18	510203.7	6109416	Patinas
Coturnix coturnix	1	Tuoktuvinis balsas, girdėtas reguliariai.	2023-06-18	506087.2	6111790	Patinas
Coturnix coturnix	1	Tuoktuvinis balsas, girdėtas reguliariai.	2023-07-01	513904.1	6120610	Patinas
Gallinago gallinago	1	Teritorinis elgesys, stebėtas reguliariai.	2023-05-05	511120.9	6121398	Pora
Gallinago gallinago	1	Teritorinis elgesys, stebėtas reguliariai.	2023-05-05	505786.3	6111121	Pora
Lanius collurio	1	Pora lizdinėje teritorijoje.	2023-06-10	505064.3	6116027	Pora
Lanius collurio	1	Pora lizdinėje teritorijoje.	2023-06-10	504018	6115053	Pora
Lanius collurio	1	Pora lizdinėje teritorijoje.	2023-06-10	504476.9	6114853	Pora
Lanius collurio	6	Pora lizdinėje teritorijoje su 4 jaunikliais.	2023-07-08	503020.2	6110284	Jaunikliai
Lanius collurio	1	Pora lizdinėje teritorijoje.	2023-06-18	510746.7	6117412	Pora
Lanius collurio	1	Pora lizdinėje teritorijoje.	2023-06-10	505680.1	6114747	Pora
Lanius collurio	1	Pora lizdinėje teritorijoje.	2023-06-10	512092.6	6120583	Pora
Lanius collurio	1	Pora lizdinėje teritorijoje.	2023-06-10	509716.8	6114398	Pora
Lanius collurio	1	Pora, neša maistą jaunikliams.	2023-07-01	510589.3	6114579	Lizdas
Lanius collurio	1	Pora lizdinėje teritorijoje.	2023-06-10	514696.2	6118960	Pora
Streptopelia turtur	1	Reguliariai girdėtas tuoktuvinis balsas, tikėtina lizdo vieta.	2023-06-30	509243.8	6116674	Patinas
Vanellus vanellus	1	Pora lizdinėje teritorijoje, teritorinis elgesys, tikėtina lizdo vieta.	2023-05-13	511054.7	6118337	Pora
Vanellus	1	Pora lizdinėje teritorijoje, teritorinis	2023-05-13	505061.9	6112611	Pora

Rūšis	Skaičius	Pastabos	Stebėjimo data	X	Y	Tipas
vanellus		elgesys, tikėtina lizdo vieta.				
Vanellus vanellus	1	Pora lizdinėje teritorijoje, teritorinis elgesys, tikėtina lizdo vieta.	2023-05-13	503264.3	6110080	Pora



14 pav. Kitų paukščių perėjimo vietos

4. PAUKŠČIŲ MIGRACIJOS TYRIMŲ REZULTATAI

Paukščių migracijos srautų tyrimai buvo vykdomi iš 6 teritorijoje pasirinktų taškų (LKS koordinatės 512157, 6120025; 511151, 6117991; 510557, 6116146; 505152, 6114679; 503563, 6113136; 509086, 6111868) su gera apžvalga rytinėmis valandomis po saulėtekio, nustatant skrendančių paukščių rūšį, skrydžio aukštį ir kryptį. Stebėjimų datos parinktos atsižvelgiant į migracijos intensyvumo piką.

Tyrimų metu nustatyta, kad paukščių migracijos srautų intensyvumas planuojamo VE parko teritorijoje yra gana didelis. Matomai gana intensyvią migraciją lemia tai, jog teritorijoje yra gana plačių, atvirų laukų su geru matomumu ir tinkamomis mitybinėmis sąlygomis paukščiams formuoti sankaupas, nors dideli skrendančių žąsų, gervių būriai čia apsistoja negausiai. Dalis teritorijoje apsistojančių paukščių šių rūšių paukščių yra vietiniai teritorijoje perintys individai, perskrendantys tarp pelkučių ar vandens telkinių.

Žvirblinių paukščių migracija nėra labai intensyvi, dažniausiai didesnius būrius sudaro kikiliai, kregždės, varnėnai. Gana dažnai virš teritorijos skrido žąsys, paprastosios pempės, pilkosios gervės, tačiau daugeliu atvejų jų skrydžiai buvo aiškiai tranzitiniai – šiaurės rytų pavasarinės migracijos metu, ir pietų, pietvakarių kryptimis rudenį. Stebėti didesni paprastųjų

varnėnų, pempių, pilkųjų gervių, būriai mitybai teritorijoje apsistojo trumpam. Plėšriųjų paukščių migracija nebuvo išreikšta ir aiškiai matoma.

Nors didžioji dalis paukščių virš planuojamo VE parko skrenda aukštai (didesniame nei 200 m aukštyje), VE parkas gali turėti reikšmingą neigiamą poveikį kai kurių rūšių migruojantiems paukščiams (yra pavienių tiesioginių susidūrimų grėsmė nusileidimo į maitinimosi ir poilsio vietas metu ir kylant iš jų).

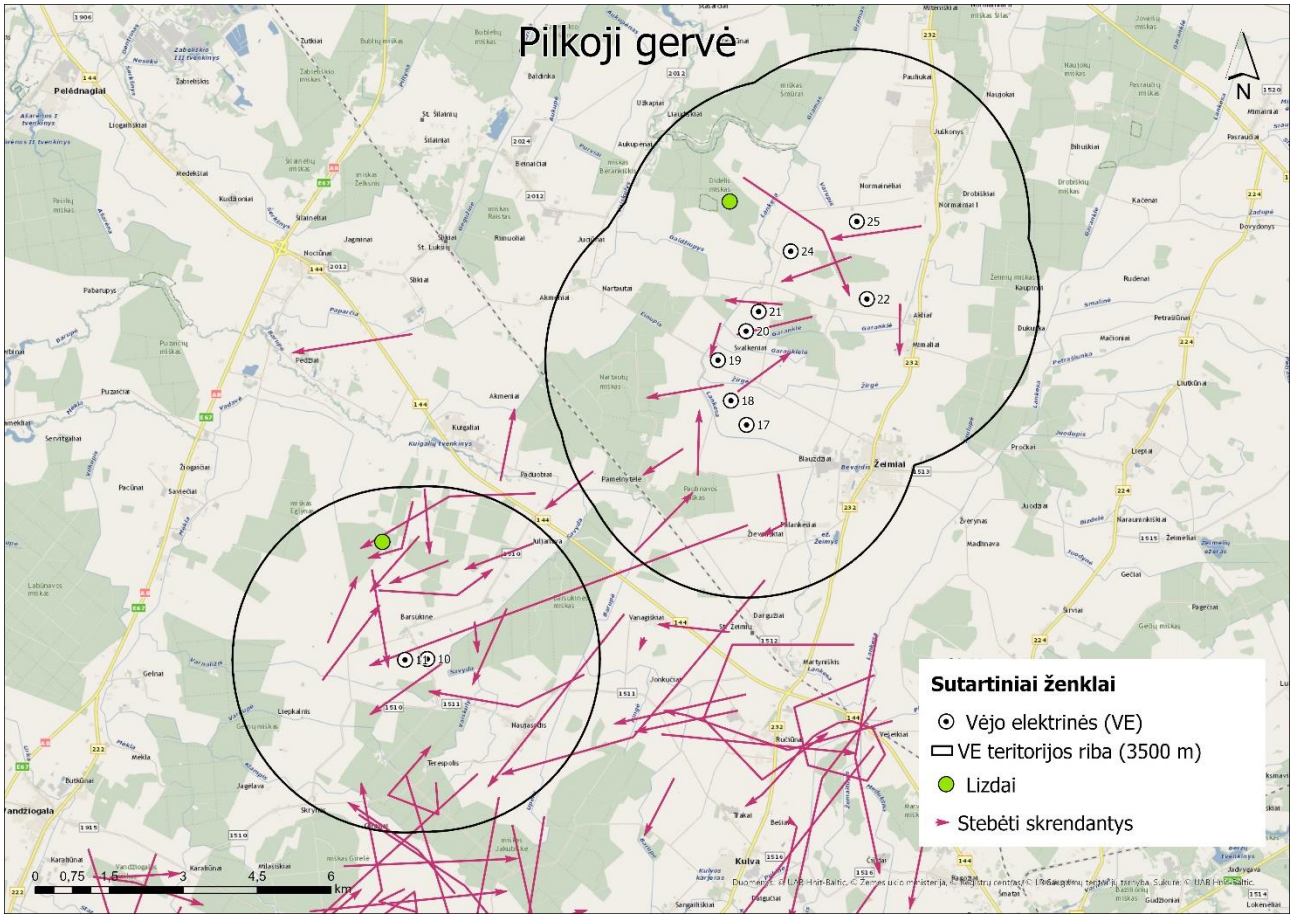
11 lentelė. Migruojančių paukščių stebėjimų planuojamo VE parko teritorijoje suvestinė:

Rūšis	**Skaičius**	**Skridimo aukštis**	**Pastabos**	**Stebėjimo data**	**X**	**Y**
Anser sp.	65	>200		2022-09-30	512050.4224	6118361.252
Anser sp.	60	101-120		2022-10-01	509723.6535	6114424.437
Anser sp.	200	>200		2022-10-07	514221.7545	6114246.905
Anser sp.	115	151-200		2022-10-07	512578.2688	6116988.146
Anser sp.	180	151-200		2022-10-08	514373.6452	6116776.179
Anser sp.	100	>200		2022-10-08	513117.8826	6119059.737
Anser sp.	170	>200		2022-10-08	507555.6896	6113495.849
Anser sp.	64	151-200		2022-10-10	513607.9068	6112671.639
Anser sp.	100	>200		2022-10-14	513056.9856	6116859.973
Anser sp.	48	151-200		2022-10-23	508425.5562	6115758.931
Anser sp.	160	>200		2023-03-12	503810.1875	6112820.046
Anser sp.	250	>200		2023-03-12	504730.8159	6111447.391
Anser sp.	310	>200		2023-03-12	507571.0486	6113302.371
Anser sp.	190	>200		2023-03-12	511572.5812	6117758.023
Anser sp.	220	>200		2023-03-17	504953.2033	6112076.812
Anser sp.	135	>200		2023-03-17	510394.9625	6112274.324
Anser sp.	90	151-200		2023-03-17	514110.3168	6115158.328
Anser sp.	300	>200		2023-03-18	511728.8821	6115801.798
Anser sp.	68	121-150		2023-03-18	506596.8962	6111924.618
Anser sp.	120	>200		2023-03-19	504828.9503	6113976.568
Anser sp.	60	101-120		2023-03-19	507852.6827	6111611.017
Anser sp.	150	>200		2023-03-19	507003.8096	6109323.994
Anser sp.	98	>200		2023-03-19	512884.209	6117845.222
Anser sp.	150	121-150		2023-03-26	506592.2426	6111264.892
Anser sp.	75	121-150		2023-03-26	509797.4122	6111917.445
Anser sp.	350	>200		2023-03-31	505731.7856	6111286.37
Anser sp.	220	>200		2023-03-31	512178.2612	6119955.929
Anser sp.	80	>200		2023-04-07	512254.5126	6116240.801
Anser sp.	147	>200		2023-04-07	510885.308	6117175.909
Anser sp.	270	>200		2023-04-07	512550.5717	6117794.739
Anser sp.	79	121-150		2023-04-07	511201.3028	6115460.021
Anser sp.	350	>200		2023-04-07	506515.7336	6109954.372
Anser sp.	95	121-150		2023-04-07	507856.9284	6110224.365
Anser sp.	70	>200		2023-04-07	503011.2201	6114280.944
Anser sp.	136	121-150		2023-04-10	505360.6106	6115937.788
Anser sp.	160	>200		2023-04-10	504378.1069	6111658.811
Anser sp.	215	>200		2023-04-10	511497.8331	6118340.22
Anser sp.	108	101-120		2023-04-14	506441.4987	6112933.619
Anser sp.	90	151-200		2023-04-14	510689.2652	6118390.327

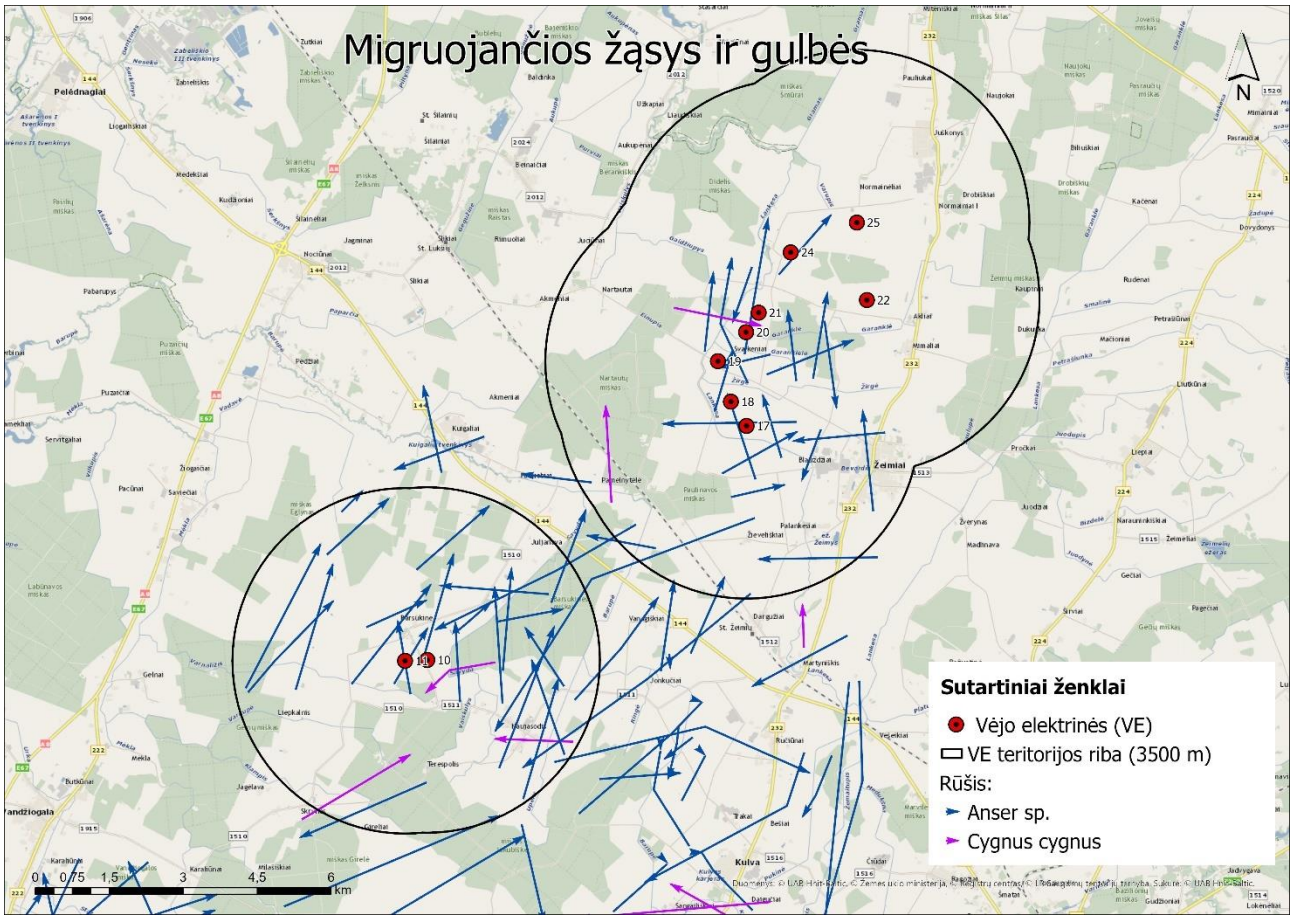
Rūšis	Skaičius	Skridimo aukštis	Pastabos	Stebėjimo data	X	Y
Anser sp.	78	>200		2023-04-14	511021.8509	6115930.902
Anser sp.	250	>200		2023-09-26	511657.306	6120151.409
Anser sp.	127	121-150		2023-09-26	506241.7885	6116700.618
Anser sp.	145	>200		2023-09-26	511925.3869	6117939.833
Anser sp.	40	81-100		2023-09-26	503515.3365	6111656.337
Cygnus cygnus	21	61-80		2022-09-30	506466.4744	6112121.31
Cygnus cygnus	15	81-100		2022-10-01	508044.9867	6110507.076
Cygnus cygnus	37	101-120		2023-03-12	510044.7515	6119305.726
Cygnus cygnus	27	21-40		2023-03-26	508800.59	6115332.911
Cygnus cygnus	20	61-80		2023-03-31	512703.3227	6112387.498
Columba palumbus	35	21-40	Skrido virš laukų.	2022-09-17	509953.281	6116549.226
Columba palumbus	40	41-60	Skrido virš laukų.	2022-09-17	512063.0447	6119963.555
Columba palumbus	23	1-20	Skrido virš laukų.	2022-09-17	505539.015	6113330.337
Columba palumbus	60	21-40	Skrido būrys virš laukų pale mišką.	2022-09-18	503441.2733	6111254.102
Columba palumbus	63	21-40	Būrys virš laukų.	2022-09-24	507442.2261	6111763.746
Columba palumbus	60	151-200		2022-09-25	512644.3857	6121862.837
Columba palumbus	60	61-80		2022-09-30	512079.869	6116785.649
Columba palumbus	45	61-80		2022-10-01	506448.5085	6112078.784
Columba palumbus	40	41-60		2023-03-19	508457.3812	6112146.114
Corvus frugilegus	70	1-20		2022-09-30	513745.9367	6116947.754
Fringilla sp.	80	21-40		2022-09-30	512198.0305	6118069.858
Fringilla sp.	150	21-40		2022-09-30	505910.716	6113287.193
Fringilla sp.	70	1-20		2023-03-12	509591.8398	6116312.567
Fringilla sp.	70	1-20		2023-03-18	508337.741	6113447.672
Fringilla sp.	220	1-20		2023-09-26	512055.8273	6111328.855
Grus grus	270	>200	Aukštai, skrido kabliu/trikampiu, būriu.	2022-09-19	511102.38	6117725.91
Grus grus	158	>200	Aukštai, skrido kabliu/trikampiu, būriu.	2022-09-21	511387.1641	6111123.896
Grus grus	320	>200	Aukštai, skrido kabliu/trikampiu, būriu.	2022-09-21	507242.3606	6114516.244
Grus grus	210	151-200	Aukštai, skrido kabliu/trikampiu, būriu.	2022-09-21	514654.2243	6119381.537
Grus grus	180	>200	Skrenda kabliu / trikampiu, būriu.	2022-09-24	511223.7389	6112707.075
Grus grus	200	151-200	Skrido būrys.	2022-09-24	506022.9156	6112943.429
Grus grus	330	>200	Skrenda kabliu/trikampiu	2022-09-25	504783.1185	6118751.498

Rūšis	Skaičius	Skridimo aukštis	Pastabos	Stebėjimo data	X	Y
			būriu aukštai.			
Grus grus	180	>200	Skrido būrys.	2022-09-25	511452.7423	6121934.422
Grus grus	80	>200	Skrido kabliu.	2022-09-25	512180.5579	6115941.509
Grus grus	200	>200		2022-09-30	511020.777	6118999.881
Grus grus	115	>200		2022-09-30	505515.8762	6114164.28
Grus grus	70	151-200		2022-09-30	507282.8628	6115520.782
Grus grus	135	>200		2022-10-01	504778.1542	6115383.756
Grus grus	67	>200		2022-10-01	505009.68	6115639.791
Grus grus	50	151-200		2022-10-01	505502.4715	6112170.108
Grus grus	150	>200		2022-10-01	512901.4035	6119107.033
Grus grus	66	41-60		2022-10-07	515108.3522	6120938.84
Grus grus	160	151-200		2022-10-30	512296.5002	6119348.271
Grus grus	59	>200		2023-03-12	511337.2345	6117566.405
Grus grus	87	151-200		2023-03-12	504050.3652	6113556.535
Grus grus	80	101-120		2023-03-17	503035.5499	6112468.957
Grus grus	146	>200		2023-03-17	509251.2368	6114303.186
Grus grus	168	151-200		2023-04-07	510549.735	6115859.545
Grus grus	45	61-80		2023-04-07	506543.4062	6115747.179
Grus grus	35	151-200		2023-04-10	502923.4925	6111712.881
Grus grus	60	>200		2023-08-19	506687.7438	6113210.325
Grus grus	50	21-40		2023-08-19	504920.8959	6114675.673
Grus grus	62	61-80		2023-08-19	503938.6239	6114000.4
Grus grus	36	41-60		2023-08-21	513686.9896	6120321.012
Grus grus	90	21-40		2023-08-25	508447.8975	6115983.924
Grus grus	25	21-40		2023-08-26	510273.8155	6116436.73
Mergus merganser	200	>200		2023-03-26	510012.1898	6118703.596
Pluvialis apricaria	40	61-80		2022-10-14	511246.369	6118733.575
Sturnus vulgaris	600	61-80	Paskrido būrys.	2022-09-25	511144.8301	6116413.525
Sturnus vulgaris	400	21-40		2022-09-30	505474.102	6113096.836
Sturnus vulgaris	110	21-40		2022-10-01	508790.7015	6112410.187
Sturnus vulgaris	60	1-20		2022-10-01	515441.9443	6120384.735
Sturnus vulgaris	210	41-60		2022-10-14	507323.6376	6115475.943
Sturnus vulgaris	120	41-60		2022-10-30	511234.7278	6118503.92
Sturnus vulgaris	150	1-20		2022-11-07	504940.2478	6112421.915
Sturnus vulgaris	60	41-60		2023-03-12	513188.9526	6115636.047
Vanellus vanellus	300	81-100		2022-09-25	514194.2349	6118606.43
Vanellus vanellus	250	21-40		2022-09-30	511823.3344	6118772.073
Vanellus vanellus	130	81-100		2022-09-30	504781.1779	6113682.098
Vanellus vanellus	260	41-60		2022-09-30	503583.432	6112489.147
Vanellus	180	61-80		2022-09-30	513423.3443	6113518.079

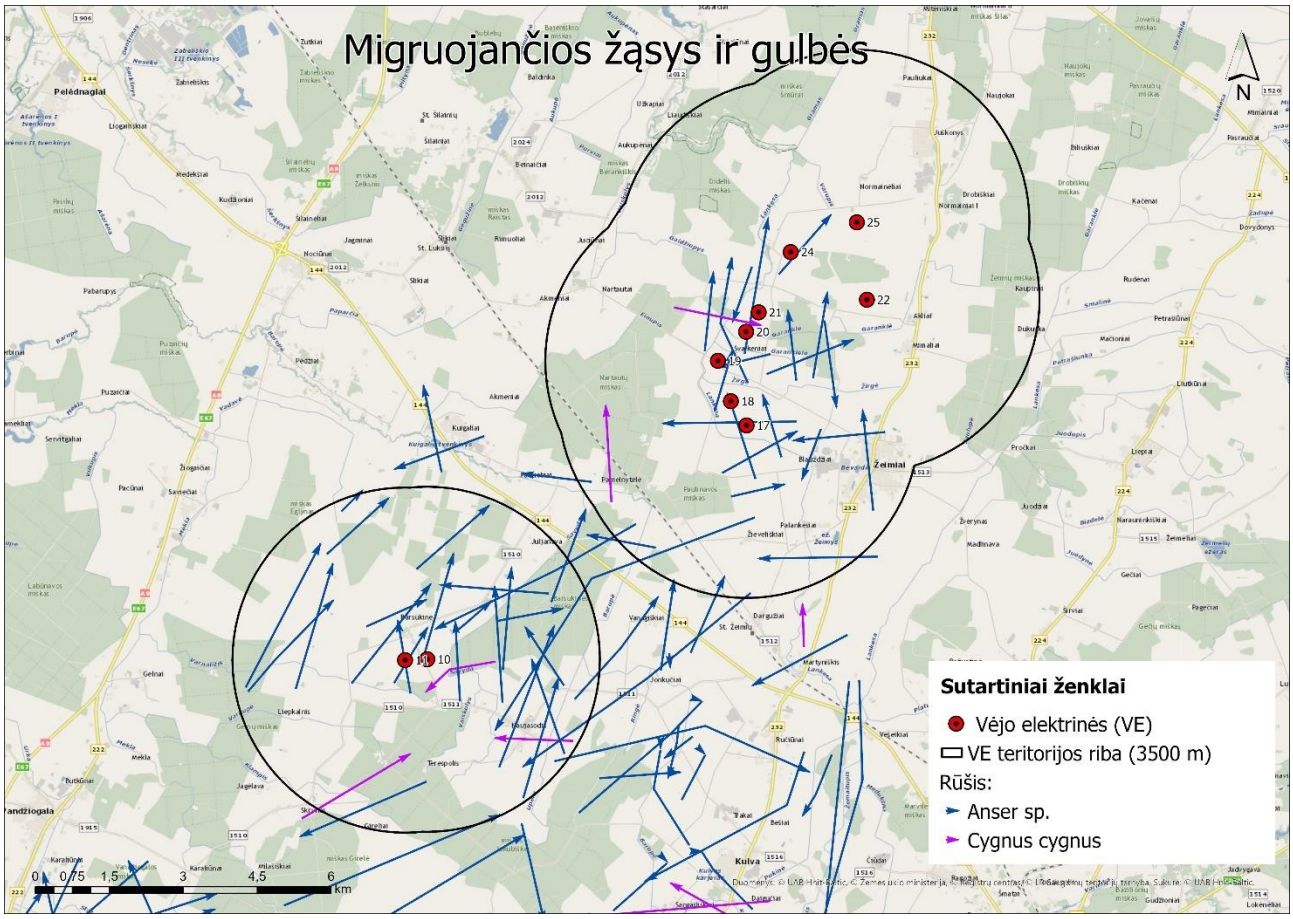
Rūšis	Skaičius	Skridimo aukštis	Pastabos	Stebėjimo data	X	Y
vanellus						
Vanellus vanellus	380	21-40		2022-10-01	507731.5405	6111663.706
Vanellus vanellus	198	61-80		2022-10-01	511364.4783	6116116.326
Vanellus vanellus	100	81-100		2022-10-07	510260.8402	6118156.749
Vanellus vanellus	140	>200		2022-10-07	507962.4162	6115380.878
Vanellus vanellus	150	41-60		2022-10-08	506924.4617	6114018.9
Vanellus vanellus	180	61-80		2022-10-10	511333.5755	6112454.271
Vanellus vanellus	200	81-100		2022-10-14	509461.6002	6113964.478
Vanellus vanellus	300	61-80		2022-10-14	510746.9721	6118950.618
Vanellus vanellus	80	21-40		2022-10-23	506505.3883	6111519.447
Vanellus vanellus	54	41-60		2022-10-23	511967.0614	6117610.838
Vanellus vanellus	240	21-40		2023-03-12	506206.0506	6110787.556
Vanellus vanellus	430	41-60		2023-03-18	508957.238	6111938.696
Vanellus vanellus	200	41-60		2023-03-19	511838.6028	6111141.844
Vanellus vanellus	55	21-40		2023-04-07	508592.439	6110835.61
Vanellus vanellus	117	41-60		2023-04-07	510445.5024	6119781.582
Vanellus vanellus	75	21-40		2023-04-10	512980.1849	6113494.811
Vanellus vanellus	40	1-20		2023-04-14	509131.292	6110963.273
Vanellus vanellus	50	21-40		2023-06-23	511255.8134	6114552.578
Vanellus vanellus	60	21-40		2023-06-30	514465.2374	6121211.057
Vanellus vanellus	55	61-80		2023-06-30	514193.0007	6121352.832
Vanellus vanellus	48	61-80		2023-07-01	509604.9176	6112941.987
Vanellus vanellus	69	21-40		2023-07-01	507091.4975	6115368.371
Vanellus vanellus	120	21-40		2023-07-07	504353.5311	6116634.282
Vanellus vanellus	120	1-20		2023-07-08	512903.6055	6121666.638
Vanellus vanellus	105	41-60		2023-07-28	513566.9159	6115363.823
Vanellus vanellus	55	21-40		2023-08-07	511862.7643	6115043.906
Vanellus vanellus	200	21-40		2023-08-12	511982.7261	6118469.83
Vanellus vanellus	180	21-40		2023-08-19	510322.1177	6112417.118
Vanellus vanellus	75	41-60		2023-08-19	507599.9368	6114589.799



15 pav. Pilkųjų gervių skridimo vietos ir kryptys migracijų metu



16 pav. Žąsų ir gulbių skridimo vietos bei kryptys migracijų metu



17 pav. Kitų paukščių skridimo vietos ir kryptys migracijų metu

5. MIGRUOJANČIŲ PAUKŠČIŲ SANKAUPŲ TYRIMAI IR BUVEINIŲ TINKAMUMO SANKAUPOMS FORMUOTIS VERTINIMAS

Nors labai reikšmingų sankaupų vietų planuojamo VE parko teritorijoje nėra, dideli dirbamų laukų plotai ir auginamų kultūrų mozaikiškumas sudaro geras sąlygas gana gausiai pro teritoriją migruojantiems paukščiams apsistoti poilsiui ir pasimaitinti. Daugiausia nedideles sankaupas teritorijoje sudaro vietiniai perintys paukščiai: pempės, strazdai, karveliniai ir žvirbliniai paukščiai. Migracijų metu teritorijoje apsistoja pavieniai pilkųjų gervių, žąsų, dirvinių sėjikų, paprastųjų pempių, varnėnų būriai ir kiti paukščiai. Šie paukščiai mitybai išnaudoja rudenį ariamus laukus, maitinasi nukultuose laukuose. Žvirblinių paukščių būriai (kikiliai, čivyliai, žaliukės, geltonosios startos) taip pat maitinasi laukuose po derliaus nuėmimo, bet jų gausa nebuvo didelė.

Vertinant 2022 ir 2023 m. stebėtas paukščių sankaupas galima teigti, kad VE parkas gali turėti reikšmingą neigiamą poveikį kai kurių rūšių sankaupas sudarantiems paukščiams (yra pavienių tiesioginių susidūrimų grėsmė nusileidimo į maitinimosi ir poilsio vietas metu ir kylant iš jų).

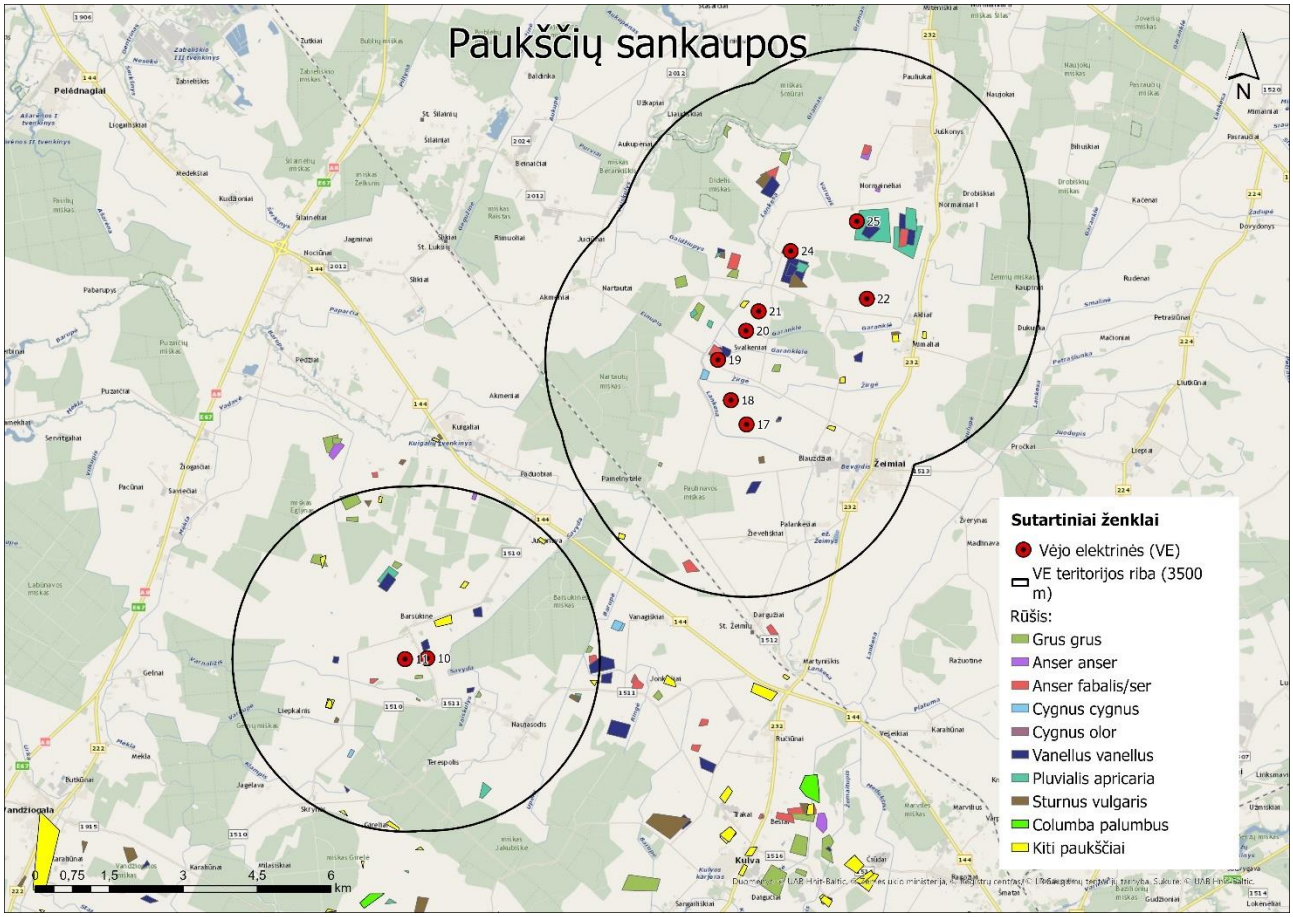
12 lentelė. Migruojančių paukščių sankaupų stebėjimų planuojamo VE parko teritorijoje suvestinė:

Rūšis	Skaičius	Buveinė	Pastabos	Stebėjimo data	X	Y
Anas platyrhynchos	120	Ežeras		2022-11-01	505234.8	6116595
Anser anser	50	Ankštiniai		2022-09-30	503217.7	6116398
Anser anser	50	Javai		2022-10-14	514196.7	6121667

Rūšis	Skaičius	Buveinė	Pastabos	Stebėjimo data	X	Y
Anser anser	40	Javai		2023-04-09	506021.5	6115439
Anser anser	120	Javai		2023-04-09	513969	6122408
Anser fabalis/ser	80	Javai		2022-09-30	512020.2	6121927
Anser fabalis/ser	105	Javai		2022-10-07	509270.1	6111732
Anser fabalis/ser	250	Javai		2023-03-26	510915.6	6118387
Anser fabalis/ser	300	Ankštiniai		2023-03-26	503967.6	6111710
Anser fabalis/ser	100	Javai		2023-03-26	509327.4	6111634
Anser fabalis/ser	60	Javai		2023-03-27	510394.6	6114020
Anser fabalis/ser	200	Javai		2023-04-09	513971.9	6122480
Anser fabalis/ser	90	Javai		2023-04-09	514719.8	6120693
Anser fabalis/ser	150	Ankštiniai		2023-04-09	504006.8	6115886
Anser fabalis/ser	300	Javai		2023-04-10	510510.6	6110351
Anser fabalis/ser	180	Javai		2023-04-14	511285.9	6120214
Anser fabalis/ser	210	Javai		2023-04-17	508431.6	6112136
Anser fabalis/ser	70	Javai		2023-04-22	512052.3	6112736
Anser fabalis/ser	200	Javai		2023-04-23	510674.5	6110860
Corvus cornix	30	Javai		2022-11-20	503088.6	6111243
Corvus frugilegus	130	Javai		2022-10-30	505400.2	6112914
Corvus frugilegus	200	Javai		2022-10-01	505822.4	6113654
Corvus frugilegus	90	Javai		2022-10-08	513265.9	6116835
Corvus frugilegus	200	Javai		2022-10-14	515144.6	6118719
Corvus frugilegus	146	Javai		2022-10-23	513487.3	6117806
Corvus frugilegus	64	Gyvenvietė		2022-11-19	514924.2	6118581
Corvus frugilegus	140	Javai		2022-11-20	503076.9	6111230
Corvus frugilegus	75	Javai		2023-03-12	514561.5	6118658
Cygnus cygnus	12	Javai		2022-10-08	510692	6117913
Cygnus cygnus	60	Javai		2023-03-17	503516.5	6110233
Cygnus cygnus	40	Javai		2023-04-14	508941	6112823
Cygnus cygnus	40	Javai		2023-04-17	508913.4	6112830
Cygnus olor	20	Pieva		2022-11-01	505320.6	6116484
Grus grus	210	Javai		2023-09-29	509402.3	6107590
Grus grus	320	Pieva		2023-09-29	512099.2	6107656
Grus grus	60	Javai		2023-09-29	512618.1	6108367
Grus grus	80	Ankštiniai		2022-09-30	503116.6	6116515
Grus grus	37	Javai		2022-10-01	510546.4	6119195
Grus grus	40	Javai		2022-10-01	512149.3	6118045
Grus grus	50	Ankštiniai		2022-10-07	503230.5	6116576
Grus grus	22	Javai		2022-10-10	504896.8	6111787
Grus grus	28	Javai		2023-03-12	504880.5	6111327
Grus grus	36	Javai		2023-03-18	509746.8	6111407
Grus grus	44	Javai		2023-03-18	511137.5	6122862
Grus grus	100	Javai		2023-03-26	506109.9	6111419
Grus grus	150	Ankštiniai		2023-03-31	510212.3	6119797
Grus grus	20	Javai		2023-04-02	502862.8	6114156
Grus grus	27	Pieva		2023-04-10	503555.9	6114985
Grus grus	30	Javai		2023-04-10	504448.8	6114057
Grus grus	35	Javai		2023-04-14	509791.3	6116096
Grus grus	50	Javai		2023-04-14	512318.4	6122319

Rūšis	Skaičius	Buveinė	Pastabos	Stebėjimo data	X	Y
Grus grus	80	Javai		2023-04-17	508354.1	6112345
Grus grus	70	Javai		2023-04-22	511278	6119961
Larus canus	60	Javai		2022-10-14	508446.7	6111682
Larus canus	200	Javai		2023-04-02	502950.1	6114147
Larus canus	150	Javai		2023-04-14	511492.8	6119351
Larus ridibundus	60	Ežeras		2022-11-01	505188.9	6116608
Larus ridibundus	70	Javai		2023-04-09	507390.6	6114551
Larus ridibundus	120	Javai		2023-04-22	509008	6114639
Pluvialis apricaria	400	Javai		2022-09-25	514114.5	6120934
Pluvialis apricaria	150	Javai		2022-09-30	514792.3	6120656
Pluvialis apricaria	60	Javai		2022-09-30	504263.9	6113820
Pluvialis apricaria	70	Javai		2022-10-01	512653.7	6120093
Pluvialis apricaria	80	Javai		2022-10-01	514873.1	6121067
Pluvialis apricaria	20	Javai		2022-10-08	510963.8	6120345
Pluvialis apricaria	70	Javai		2023-03-12	510798.7	6118945
Pluvialis apricaria	25	Javai		2023-03-18	508113.1	6111392
Pluvialis apricaria	70	Javai		2023-04-09	510465.2	6119155
Sturnus vulgaris	700	Javai		2023-09-29	509931.9	6108800
Sturnus vulgaris	280	Javai		2022-09-30	512550.4	6119790
Sturnus vulgaris	200	Javai		2022-10-07	503868.5	6115321
Sturnus vulgaris	320	Javai		2022-10-08	511050.6	6120344
Sturnus vulgaris	50	Javai		2022-10-23	512177.5	6116977
Sturnus vulgaris	100	Javai		2023-03-12	514557	6118755
Sturnus vulgaris	60	Javai		2023-03-12	510863.6	6118387
Sturnus vulgaris	150	Javai		2023-03-12	504561	6116147
Sturnus vulgaris	140	Javai		2023-03-17	503228.6	6110907
Sturnus vulgaris	120	Javai		2023-03-19	508056.1	6111367
Sturnus vulgaris	200	Javai		2023-03-19	511948.5	6121811
Sturnus vulgaris	170	Ankštiniai		2023-03-27	511844.8	6116189
Sturnus vulgaris	100	Pieva		2023-04-02	505323.5	6116658
Turdus pilaris	170	Miškas		2022-11-11	504114	6115384
Turdus pilaris	70	Pieva		2022-11-26	512339.2	6111785
Vanellus vanellus	230	Javai		2022-09-18	508706.5	6111759
Vanellus vanellus	135	Javai	Laukuose su pavieniais varnėnais.	2022-09-18	511682.5	6115629
Vanellus vanellus	420	Javai		2022-09-24	508948.2	6110726
Vanellus vanellus	450	Javai		2023-09-29	509781.3	6108800
Vanellus vanellus	450	Javai		2023-09-29	510264.1	6108844
Vanellus vanellus	160	Javai	Kartu su varnėnais.	2022-09-30	512511.2	6120007
Vanellus vanellus	250	Javai	Kartu su sėjikais.	2022-09-30	514799.1	6120861
Vanellus vanellus	180	Javai		2022-09-30	511060.6	6118365
Vanellus vanellus	400	Javai		2022-09-30	504253.3	6113702
Vanellus vanellus	370	Javai		2022-10-01	511117.8	6118379
Vanellus vanellus	500	Javai		2022-10-01	514046.4	6120847
Vanellus vanellus	300	Javai		2022-10-07	505029.5	6112430
Vanellus vanellus	250	Javai		2022-10-08	511015.7	6120395
Vanellus vanellus	200	Javai		2022-10-08	512449.7	6120036
Vanellus vanellus	130	Javai		2022-10-10	506095.6	6113099

Rūšis	Skaičius	Buveinė	Pastabos	Stebėjimo data	X	Y
Vanellus vanellus	90	Javai		2022-10-10	505940.5	6111520
Vanellus vanellus	60	Javai		2022-10-23	512288.6	6120409
Vanellus vanellus	80	Javai		2022-10-23	512198.9	6117014
Vanellus vanellus	50	Ankštiniai		2023-03-17	503212.1	6112134
Vanellus vanellus	140	Javai		2023-03-18	508066.8	6111355
Vanellus vanellus	200	Javai		2023-03-19	512028.5	6121712
Vanellus vanellus	80	Javai		2023-03-31	513814.8	6118265



18 pav. Paukščių sankaupų vietos

7. ŠIKŠNOSPARNIŲ TYRIMŲ REZULTATAI

Šikšnosparnių tyrimai atlikti nešiojamuoju ultragarsiniu detektoriumi, jie buvo vykdomi tamsiuoju paros metu, pradedadant 0,5–1 val. po saulėlydžio.

Planuojamo VE parko teritorijoje besiveisiančių šikšnosparnių tyrimai buvo atlikti 19-oje pastovių taškų. Stebėjimų taškai pasirinkti siekiant aprėpti visas pagrindines ir potencialias šikšnosparnių veisimosi bei mitybos buveines.

Įrašų datos:

2023-05-21 (6 taškai po 10 min.), 2023-05-26 (7 taškai po 10 min.), 2023-05-28 (6 taškai po 10 min.), 2023-06-18 (10 taškų po 10 min.), 2023-06-19 (9 taškai po 10 min.), 2023-07-01 (7 taškai po 10 min.), 2023-07-03 (6 taškai po 10 min.), 2023-07-08 (6 taškai po 10 min.), 2023-07-22 (6 taškai po 10 min.), 2023-07-23 (7 taškai po 10 min.), 2023-07-28 (6 taškai po 10 min.). Buvo padaryta 3640 min. įrašų veisimosi metu.

Nustatyta, kad planuojamo VE parko teritorija yra gana patraukli šikšnosparniams veistis ir maitintis, tačiau šie žinduoliai aptinkami negausiai ir ne visur. Miškai ir želdynai, upelių pakrantės yra geros buveinės šikšnosparnių veisimuisi ir mitybai. Beveik visos šikšnosparnių rūšys yra itin jautrios VE poveikiui.
Migruojantys šikšnosparniai buvo registruojami keturiuose tuose pačiuose taškuose (Nr. 4, 15, 18, 19), tik registravimo trukmė buvo ilgesnė ir viename taške apėmė 60 min. laikotarpį (veisimosi metu detektoriaus registravimo trukmė – 10 min.).
Įrašų datos: 2022-09-17 (2 taškai po 1 val.), 2022-09-18 (2 taškai po 1 val.), 2022-09-24 (2 taškai po 1 val.), 2022-09-25 (2 taškas po 1 val.), 2022-10-01 (2 taškai po 1 val.), 2022-10-08 (2 taškai po 1 val.), 2023-08-06 (2 taškai po 1 val.), 2023-08-07 (2 taškai po 1 val.), 2023-08-11 (2 taškai po 1 val.), 2023-08-12 (2 taškai po 1 val.), 2023-08-19 (2 taškai po 1 val.), 2023-08-21 (2 taškai po 1 val.), 2023-08-25 (2 taškai po 1 val.), 2023-08-26 (2 taškai po 1 val.), 2023-09-08 (2 taškai po 1 val.), 2023-09-09 (2 taškai po 1 val.), 2023-09-15 (2 taškai po 1 val.), 2023-09-16 (2 taškai po 1 val.), 2023-09-22 (2 taškai po 1 val.), 2023-09-23 (2 taškai po 1 val.), 2023-09-29 (2 taškai po 1 val.), 2023-09-30 (2 taškai po 1 val.), 2023-10-06 (2 taškai po 1 val.), 2023-10-07 (2 taškai po 1 val.).
Šikšnosparnių migracija planuojamo VE parko teritorijoje kai kuriuose taškuose buvo gana intensyvi (ypač. stebėjimo taškuose Nr. 4 ir 18, kurie parinkti ant linijinio objekto – Lankesos upės) ir aktyviausiai ji vyko nuo rugpjūčio pabaigos iki rugsėjo vidurio. Iš viso planuojamo VE parko teritorijoje 19-oje taškų padaryti 689 garso įrašai (stereogramos), kurie gali būti perduoti detalesnei analizei šikšnosparnius tiriantiems mokslininkams.
Vertinant šikšnosparnių tyrimų rezultatus apibendrintai galima teigti, kad VE elektrinės, kurios stovi arčiau nei 200 m (+ atstumas, lygus mentės ilgiui) iki miško ar linijinio objekto (krūmais ar medžiais apaugusio kelio, kanalo, upelio) gali turėti reikšmingą neigiamą poveikį šikšnosparniams ir turėtų būti numatytas stabdymas tamsiu paros metu nuo saulės laidos iki patekėjimo nuo gegužės 1 d. iki spalio 15 d. (esant mažesniam nei 6 m/s vėjui ir aukštesnei nei +10 C temperatūrai, nelyjant).

13 lentelė. Planuojamų statyti VE atstumai nuo miškų:

VE Nr.	Artimiausias miškas/miško sala	Miško grupė	Kryptis ir atstumas iki artimiausios VE, km
1	Be pavadinimo	IV Ūkiniai miškai	R 0,24 km
2	Miškas Vypališkė	IV Ūkiniai miškai	P 0,18 km
3	Miškas Vypališkė	IV Ūkiniai miškai	PV 0,18 km
4	Pabarupės miškas	IV Ūkiniai miškai	R 0,20 km
5	Miškas Vypališkė	IV Ūkiniai miškai	Š 0,13 km
6	Miškas Vypališkė	IV Ūkiniai miškai	V 0,40 km
7	Miškas Vypališkė	IV Ūkiniai miškai	V 0,19 km
8	Be pavadinimo	IV Ūkiniai miškai	R 0,46 km
9	Miškas Gojelis	IV Ūkiniai miškai	P 0,44 km
10	Barsukinės miškas	IV Ūkiniai miškai	R 0,26 km
11	Kirbuto miškas	IV Ūkiniai miškai	P 0,40 km
12	Kirbuto miškas	IV Ūkiniai miškai	ŠR 0,25 km
13	Kulvos miškas	IV Ūkiniai miškai	P 0,48 km
14	Paulinavos miškas	IV Ūkiniai miškai	PR 0,17 km
15	Nartautų miškas	IV Ūkiniai miškai	V 0,25 km
16	Nartautų miškas	IV Ūkiniai miškai	V 0,45 km

VE Nr.	Artimiausias miškas/miško sala	Miško grupė	Kryptis ir atstumas iki artimiausios VE, km
17	Paulinavos miškas	IV Ūkiniai miškai	P 1,12 km
18	Natautų miškas	IV Ūkiniai miškai	V 1,03 km
19	Be pavadinimo	III Apsauginiai miškai. Vandens telkinių apsaugos zonų miškai	Š 0,82 km
20	Be pavadinimo	III Apsauginiai miškai. Vandens telkinių apsaugos zonų miškai	ŠV 0,43 km
21	Miškas Dobilynė	IV Ūkiniai miškai	R 0,23 km
22	Be pavadinimo	IV Ūkiniai miškai	Š 0,37 km
23	Be pavadinimo	IV Ūkiniai miškai	R 0,10 km
24	Be pavadinimo	IV Ūkiniai miškai	R 0,23 km
25	Be pavadinimo	IV Ūkiniai miškai	P 0,66 km

14 a) lentelė. Šikšnosparnių stebėjimų (garso įrašų) planuojamo VE parko teritorijoje esančiuose pastoviuose taškuose suvestinė veisimosi ir migracijos metu:

Taško Nr. ir koordinatės	Rūšis	Praskridimų skaičius
Nr. 1 512072, 6120510	Rudasis nakviša (*Nyctalus noctula*) Rudasis ausylis (*Plecotus auritus*) Natuzijaus šikšniukas (*Pipistrellus nathusii*)	6 4 19
Nr. 2 512649, 6119492	Rudasis nakviša (*Nyctalus noctula*) Natuzijaus šikšniukas (*Pipistrellus nathusii*)	1 7
Nr.3 511969, 6118655	Rudasis nakviša (*Nyctalus noctula*) Šiaurinis šikšnys (*Eptesicus nilssonii*) Vėlyvasis šikšnys (*Eptesicus serotinus*) Mažasis nakviša (*Nyctalus leisleri*) Natuzijaus šikšniukas (*Pipistrellus nathusii*) Dvispalvis plikšnys (*Vespertilio murinus*)	4 1 2 3 12 1
Nr. 4 510689, 6118328	Rudasis nakviša (*Nyctalus noctula*) Mažasis nakviša (*Nyctalus leisleri*) Europinis plačiaausis (*Barbastella barbastellus*) Šiaurinis šikšnys (*Eptesicus nilssonii*) Vėlyvasis šikšnys (*Eptesicus serotinus*) Vandeninis pelėausis (*Myotis daubentonii*) Natuzijaus šikšniukas (*Pipistrellus nathusii*) Dvispalvis plikšnys (*Vespertilio murinus*) Rudasis ausylis (*Plecotus auritus*)	29 8 4 14 20 4 52 13 9
Nr. 5 510520, 6115998	Europinis plačiaausis (*Barbastella barbastellus*) Dvispalvis plikšnys (*Vespertilio murinus*) Mažasis nakviša (*Nyctalus leisleri*) Vėlyvasis šikšnys (*Eptesicus serotinus*) Natuzijaus šikšniukas (*Pipistrellus nathusii*)	1 4 3 2 10
Nr. 6 508828, 6113993	Mažasis nakviša (*Nyctalus leisleri*) Vėlyvasis šikšnys (*Eptesicus serotinus*) Natuzijaus šikšniukas (*Pipistrellus nathusii*)	3 4 14
Nr. 7 502947, 6121802	Natuzijaus šikšniukas (*Pipistrellus nathusii*) Rudasis nakviša (*Nyctalus noctula*)	3 1
Nr. 8 504366, 6114367	Rudasis nakviša (*Nyctalus noctula*)	3
Nr. 9 504358, 6114700	Rudasis nakviša (*Nyctalus noctula*)	4
Nr. 10 503971, 6114991	Rudasis nakviša (*Nyctalus noctula*)	6
Nr. 11 504135, 6115523	Rudasis nakviša (*Nyctalus noctula*) Natuzijaus šikšniukas (*Pipistrellus nathusii*)	4 12

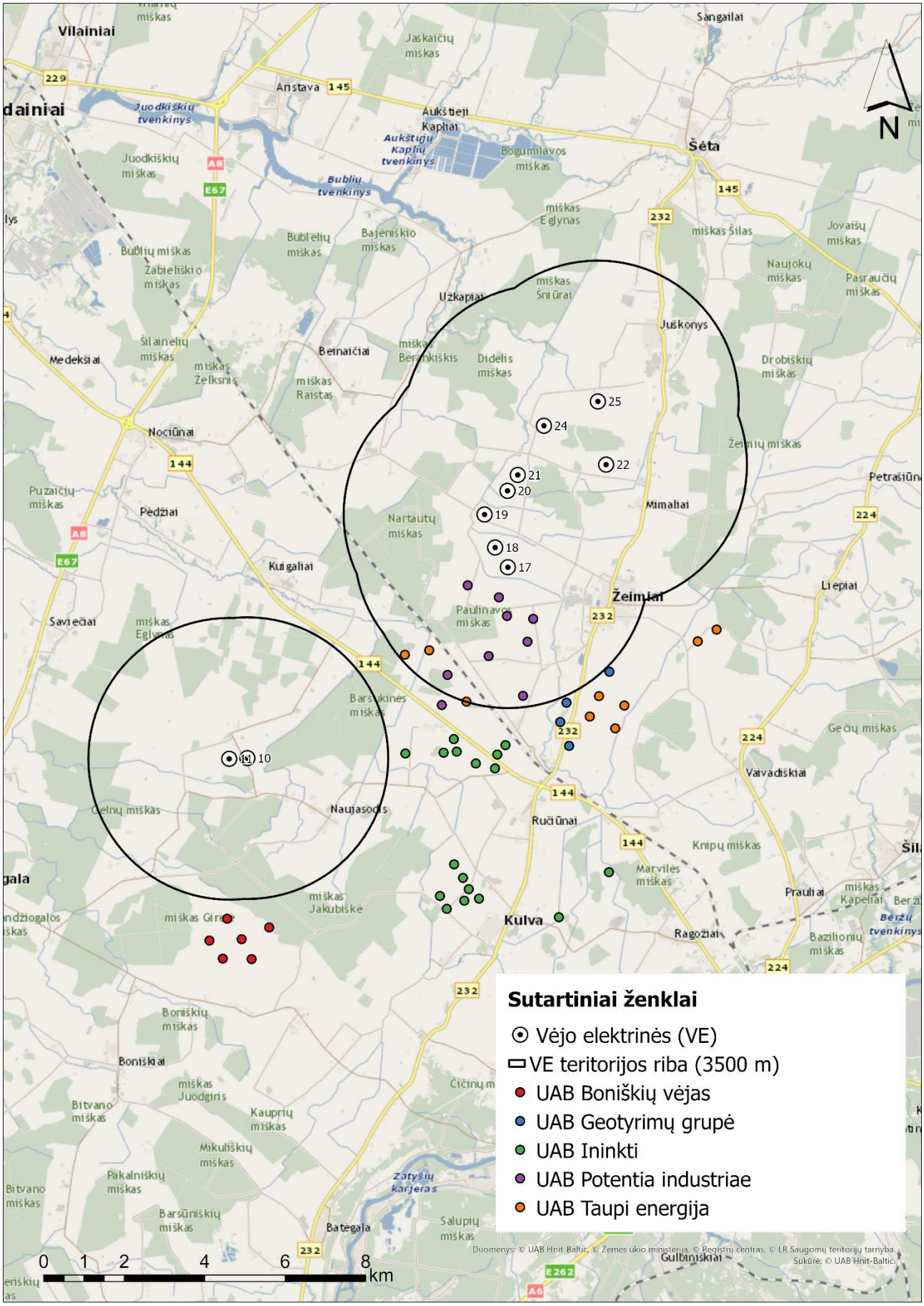
Nr. 12 504554, 6116347	Vėlyvasis šikšnys (*Eptesicus serotinus*)	9
Nr. 13 506851, 6114437	Europinis plačiaausis (*Barbastella barbastellus*) Rudasis nakviša (*Nyctalus noctula*) Natuzijaus šikšniukas (*Pipistrellus nathusii*)	1 5 12
Nr. 14 505195, 6111751	Šiaurinis šikšnys (*Eptesicus nilssonii*)	21
Nr. 15 504497, 6111188	Natuzijaus šikšniukas (*Pipistrellus nathusii*) Vėlyvasis šikšnys (*Eptesicus serotinus*)	6 2
Nr. 16 503696, 6113720	-	0
Nr. 17 509489, 6111403	-	0
Nr. 18 511867, 6119754	Šiaurinis šikšnys (*Eptesicus nilssonii*) Natuzijaus šikšniukas (*Pipistrellus nathusii*) Mažasis nakviša (*Nyctalus leisleri*) Rudasis nakviša (*Nyctalus noctula*) Vėlyvasis šikšnys (*Eptesicus serotinus*)	3 11 4 5 2
Nr. 19 504668, 6115269	Rudasis nakviša (*Nyctalus noctula*)	9

14b) lentelė. Šikšnosparnių stebėjimų (garso įrašų) migracijų metu planuojamo VE parko teritorijoje esančiuose pastoviuose stebėjimo taškuose suvestinė:

Taško Nr. ir koordinatės	Rūšis	Praskridimų skaičius
Nr. 4 510689, 6118328	Rudasis nakviša (*Nyctalus noctula*) Europinis plačiaausis (*Barbastella barbastellus*) Šiaurinis šikšnys (*Eptesicus nilssonii*) Vėlyvasis šikšnys (*Eptesicus serotinus*) Natuzijaus šikšniukas (*Pipistrellus nathusii*) Dvispalvis plikšnys (*Vespertilio murinus*)	27 14 162 35 6 12
Nr. 15 504497, 6111188	Šiaurinis šikšnys (*Eptesicus nilssonii*) Vėlyvasis šikšnys (*Eptesicus serotinus*)	1 5
Nr. 18 511867, 6119754	Šiaurinis šikšnys (*Eptesicus nilssonii*) Europinis plačiaausis (*Barbastella barbastellus*) Rudasis nakviša (*Nyctalus noctula*) Vėlyvasis šikšnys (*Eptesicus serotinus*)	23 2 13 6
Nr. 19 504668, 6115269	Rudasis nakviša (*Nyctalus noctula*)	6

7. SUMINIO POVEIKIO VERTINIMAS

Aplink planuojamą VE parką yra pastatyti arba planuojami statyti dar keletas VE parkų (19 pav.)



19 pav. VE parkų išsidėstymas teritorijoje

Negavus duomenų apie artimiausių VE parkų monitoringo rezultatus, suminis poveikis paukščiams ir šikšnosparniams yra tik teorinis.
Keleto VE parkų įrengimas greta vienas kito gali turėti suminį neigiamą poveikį dėl didesnės mitybinės teritorijos praradimo, kliūties vengimo efekto, pailgėjusių perskridimo ir migracijos atstumo; laikino apsistojimo vietų poilsiui praradimo, vengimo.
Taip pat gretimai (iki 2 km nuo VE) perinčioms jautrioms VE poveikiui paukščių rūšims sumažėja nekonfliktinių teritorijų, padidėja rizika žūti dėl VE veiklos.
Dėl to labai svarbu, kad visuose VE parkuose būtų vykdomas monitoringas ir taikomos poveikio mažinimo priemonės, siekiant išvengti paukščių ir šikšnosparnių žūčių.

Poveikis	**Planuojamas VE parkas**	**Kiti planuojami VE parkai**	**Visi parkai, suminis poveikis**
Mitybinės teritorijos praradimas (jautrioms VE poveikiui rūšims)	Lokalus poveikis VE parko ribose, neigiamos pasekmės jautrioms rūšims mažai tikėtinos	Lokalus poveikis VE parko ribose, neigiamos pasekmės jautrioms rūšims mažai tikėtinos	Reikšmingos neigiamos pasekmės jautrioms rūšims mažai tikėtinos. Sumažėja saugių plotų mitybai, galimas mitybinių vietų vengimas.
Kliūties efektas	Galimas kliūties efektas perskridimams tarp miškų.	Galimas kliūties efektas migraciniams perskridimams (trūksta duomenų)	Reikšmingos neigiamos pasekmės mažai tikėtinos. Galimas bandymas išvengti kliūčių migraciniais periodais, saugaus koridoriaus tarp VE parkų ieškojimas.
Laikino apsistojimo vietų praradimas	Poveikis VE parko ribose nenumatomas	Poveikis mažai tikėtinas	Reikšmingos neigiamos pasekmės mažai tikėtinos.
Paukščių žūtis dėl VE veiklos	Nežymus poveikis numatomas, siūlomos poveikio mažinimo priemonės	Galimas nežymus poveikis, reiktų taikyti poveikio mažinimo priemones	Galimas neigiamas poveikis. Gali žūti jautrios paukščių rūšys.
Šikšnosparnių žūtis dėl VE veiklos	Galimos pavienės žūtys migracijos metu. Siūlomos poveikio mažinimo priemonės.	Galimos pavienės žūtys migracijos metu. Reikia taikyti poveikio mažinimo priemones.	Galimas neigiamas poveikis. Gali žūti šikšnosparniai migracijos metu.

Kadangi planuojamame VE parke atsisakoma dalies VE, jos atitraukiamos iš pamiškių zonų (kur ir yra pagrindiniai plėšriųjų paukščių mitybos plotai veisimosi metu), tai paukščių perėjimo metu planuojamo VE parko poveikis yra sumažinamas iki minimalios ribos. Antroje vasaros pusėje ir rudenį, kai paukščių mitybiniai skrydžiai išsiplečia į atviras teritorijas, planuojamame VE parke bus įdiegtos paukščius nuo žūties apsaugančios automatinio stabdymo sistemos. Be abejo, yra labai svarbu, kad tokios paukščių apsaugos priemonės būtų įdiegtos ir gretimuose VE parkuose.

Kiekvienas iš parkų turi diegti poveikio mažinimo priemones leidžiančios sumažinti galimą neigiamą poveikį iki minimalaus.

Migruojantiems paukščiams apsaugoti taip pat veiks automatinio stabdymo sistemos. Konstatuotina, kad teritorijoje nėra migracinių koridorių ar migracinių srautų susiliejimo vietų, dėl ko paukščių migracijai VE parkų poveikis būtų minimalus.

8. PAUKŠČIŲ IR ŠIKŠNOSPARNIŲ TYRIMŲ IŠVADOS IR REKOMENDACIJOS

Tyrimų išvados

1. Planuojamo VE parko teritorija ir jos apylinkės dėl natūralių buveinių gausumo ir mozaikiškumo, geros mitybinės bazės yra gana patraukli tiek perintiems ir migruojantiems paukščiams, tiek šikšnosparniams veisimosi bei migracijų metu.
2. Teritorijoje perintiems kai kurių retų ir saugomų rūšių paukščiams VE parko poveikis gali būti neigiamas, todėl VE parko eksploatavimo metu nustačius tokį poveikį, ypač žūtį dėl susidūrimų su VE, turėtų būti taikomos papildomos poveikio mažinimo priemonės.
3. Dalis teritorijos, arčiau miškų, želdinių, vandens telkinių yra patraukli šikšnosparniams jų veisimosi ir migracijos metu tiek dėl tinkamų dauginimuisi buveinių, tiek dėl maisto gausos. VE statymas arti miškų, želdynų, ir vandens telkinių gali įtakoti šikšnosparnių žuvimą.
4. Tyrimų metu nustatyta, kad planuojamo VE parko teritorijoje apsistoja migruojančios žąsys, pilkosios gervės, dirviniai sėjikai, tačiau reikšmingų ir pastovių sankaupų nesuformuoja. Remiantis tyrimais, atliktais jau veikiančiuose VE parkuose Šilutės r., Pagėgių sav., Olandijoje, Danijoje, yra žinoma, kad žąsys ir sėjikiniai paukščiai nevengia veikiančių VE parko teritorijų, tačiau žuvusių individų nerandama. Tuo tarpu migruojančios gervės vengia VE teritorijų ir jose neapsistoja maitintis. Atsižvelgiant į tai neigiamo poveikio mažinimo priemonių dėl migruojančių ir sankaupas formuojančių paukščių nesiūloma.

Rekomenduojamos poveikio mažinimo priemonės[4]

1. Atsižvelgiant į mažųjų erelių rėksnių ir jūrinių erelių perėjimo vietas, mitybinių plotų

[4] Visos ataskaitoje taikomos priemonės ir rekomendacijos yra parengtos pagal 2024 m. lapkričio 22 d. Nr. D1-401 Lietuvos Respublikos aplinkos ministro įsakymo dėl Lietuvos Respublikos aplinkos ministro 2023 m. Gruodžio 12 d. Įsakymo nr. D1-406 „Dėl detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašo patvirtinimo“ pakeitimą.
Siūlomos poveikio mažinimo priemonės (automatiškai paukščius atpažįstančios ir VE stabdančios sistemos) atitiks šiame įstatyme IV skyriuje nurodytas technines specifikacijas.

maršrutus ir skraidymo intensyvumą bei PAST apsauginės zonos ribas, siūloma statyti 9 VE ir visose planuojamose statyti VE sumontuoti paukščius aptinkančias ir VE stabdančias (paukščiui prisiartinus) sistemas. Dėl poveikio PAST siūloma atsisakyti VE11.

2. Siekiant netrikdyti paukščių perėjimo ir mitybos, nenaudoti garsinių signalų ar vaizdinių priemonių sistemų, kurios baidytų paukščius.
3. Daliai retų ir saugomų paukščių ar šikšnosparnių rūšių, perinčių PŪV teritorijoje, buveinės pokyčiai dėl VE statybų – galimo hidrologinio režimo pakeitimo ar dalies želdinių atvirame kraštovaizdyje iškirtimo, neigiamai įtakotų šių rūšių būklę. Todėl rekomenduojama statant parką nekeisti teritorijos hidrologinio režimo ir gamtinės aplinkos, nekirsti medžių, želdinių.
4. Siekiant netrikdyti paukščių perėjimo ir šikšnosparnių veisimosi, nevykdyti VE parko statybos darbų aktyviausiu paukščių perėjimo ir šikšnosparnių veisimosi metu nuo gegužės mėn. 1 d. iki rugpjūčio mėn. 1 d. arba vykdyti kai kuriuos darbus tik po konsultacijų su ornitologais.
5. VE statymas arti želdynų, miškų ir lauko giraičių, taip pat prie vandens telkinių, tame tarpe melioracijos griovių, gali įtakoti šikšnosparnių žuvimą. Todėl rekomenduojama statyti VE kuo toliau (200 m + sparnuotės ilgis) nuo miškų, želdinių, ir vandens telkinių. Arčiau esančioms VE, kur buvo registruoti didesni skaičiai besiveisiančių ir/ar migruojančių šikšnosparnių, būtina taikyti startinio greičio didinimą nuo gamykliškai nustatyto iki 6 m/s nuo saulės laidos iki saulėtekio apimant laikotarpį nuo gegužės 1 d.– iki spalio 15 d. (kai oro temperatūra ne mažesnė kaip 10 °C, nelyja, nėra rūko), arba įrengti akustines šikšnosparnius nuo sparnuotės nedideliu atstumu atbaidančias priemones, veikiančias nuo gegužės mėn. 1 d. iki spalio mėn. 15 d.
6. Nenaudoti papildomo, nebūtino orlaivių saugumui užtikrinti VE apšvietimo. Apšvietus VE parką, pavienių VE korpusus ar pailginus orlaivių saugumui ant VE įrengtų švieselių švietimo periodą, didėja tikimybė, kad šviesa pritrauks vabzdžius ir jais mintančius šikšnosparnius. Taikant nurodytą priemonę, nebūtų priviliojami vabzdžiai ir jais mintantys šikšnosparniai. Orlaivių saugumui ant VE įrengiami periodiškai mirksintys raudonos šviesos šviestuvai ir kai jie mirksi tik VE eksploatavimo dokumentuose nurodytu periodiškumu, vabzdžių ir jais mintančių šikšnosparnių nepritraukia.
7. Parengti ir su atsakinga institucija suderinti PŪV paukščių ir šikšnosparnių monitoringo programą - VE parko poveikio migruojantiems, perintiems paukščiams ir besiveisiantiems bei migruojantiems šikšnosparniams įvertinti bei žuvusiems paukščiams ir šikšnosparniams registruoti. Programa turi apimti:

- vienerių metų prieš statybas/statybų metu;
- trejų metų po statybų laikotarpį;
- metų trukmės tyrimus periodiškai kartoti po trejų metų. Atsižvelgiant į monitoringo

(stebėsenos) rezultatus naudoti, esant reikalui, efektyvesnes poveikio mažinimo priemones. Monitoringo (stebėsenos) metu (trejų metų po statybos laikotarpiu), siekiant nustatyti tikslesnes mažųjų erelių rėksnių, perinčių PŪV teritorijoje ar artimoje jų aplinkoje, maitinimosi vietas bei skraidymo iš perėjimo į maitinimosi vietas maršrutus, siūlome abiem poros nariams (patinui ir patelei) uždėti GSM siųstuvus. Vykdomo monitoringo metu stacionarių detektorių pagalba dar kartą įvertinti šikšnosparnių migracijos intensyvumo rodiklius ir pagal tai, jei reikia, koreguoti numatytas šikšnosparnių poveikio mažinimo priemones.

8. VE parko eksploatacijos metu, vykdant žuvusių paukščių ir šikšnosparnių monitoringą, nustačius reikšmingą poveikį šikšnosparniams, reikšmingą poveikį sukeliančiose VE, atsižvelgiant į stebėsenos rezultatus, naudoti papildomas poveikį mažinančias priemones, pvz., VE startinio greičio didinimą nuo gamykliškai nustatyto iki 6 m/s nuo saulės laidos iki saulėtekio apimant laikotarpį nuo gegužės 1 d.– iki spalio 15 d. (kai oro temperatūra ne mažesnė kaip 10 °C, nelyja, nėra rūko), arba kitas, tuo metu tyrimais pagrįstas priemones.
9. Kaip kompensacinę priemonę paprastajam suopiui siūloma įrengti VE parko teritorijoje (apimančioje 3,5 km atstumą nuo VE parko) 20 tupėjimo postų. Postai turėtų būti įrengti nuošaliau nuo VE vietų.
10. Taikomos technologinės poveikio mažinimo priemonės turi atitikti šiuos reikalavimus, kurie yra pateikti Detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų apraše.

Nr.	**Reikalavimas**	**Reikalavimo tikslas**
1.	Technologinė prevencijos priemonė turi būti sertifikuota ir (ar) ne mažiau kaip 1 metus naudojama paukščiams ir šikšnosparniams nuo žūties apsaugoti bent vienoje Europos Sąjungos ir (ar) Europos ekonominės erdvės šalyje.	Praktiškai įvertintas ir patikrintas patikimumas, priemonės efektyvumas, aiški gaunama patikima duomenų amplitudė.
2.	Naudojant technologinę prevencijos priemonę turi būti pastebima ne mažiau kaip 80 % visų didesnių kaip 0,5 m (skaičiuojant per ištiestų sparnų ilgį) paukščių ne mažesniu kaip 500 m atstumu nuo VE (siekiant išvengti poveikio paukščiams) arba fiksuojant šikšnosparnių ultragarsinius signalus ne mažesniu kaip VE mentės atstumu (siekiant išvengti poveikio šikšnosparniams) arba nustatyta ne mažiau kaip 80 % paukščių rūšių, kuriems planuojamos	Konstatuojamas aiškus priemonės efektyvumo kriterijus nustatant tipinį saugomos rūšies paukščio individą ar šikšnosparnio buvimo faktą ir minimalų nustatymo atstumą.

Nr.	Reikalavimas	Reikalavimo tikslas
	ūkinės veiklos poveikio vertinimo ar monitoringo metu nustatytas galimas reikšmingas poveikis.	
3.	Poveikio paukščiams prevencijos sistema turi turėti galimybę atpažinti ir teisingai nustatyti plėšriuosius ir sklandančius Detalių vėjo elektrinių reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams kriterijų, reikšmingo neigiamo poveikio paukščiams ir šikšnosparniams prevencijos ir mažinimo priemonių taikymo ir tyrimų reikalavimų aprašo 2 priedo 1 lentelėje nurodytus paukščius pagal rūšis ar būrius. Teisingai nustačiusi rūšį, sistema turi stebėti individą ir, jei jis priartėja ne mažesniu kaip 350 m atstumu iki VE, elektrinė ne mažiau kaip per 35 sekundžių turi būti sustabdyta ir neveikti, kol praeis susidūrimo pavojus. Poveikio šikšnosparniams prevencijos sistema turi turėti galimybę nuolat skaičiuoti fiksuojamus ultragarsinius signalus ir pagal nustatytus parametrus stabdyti VE menčių sukimąsi. Užfiksavus numatytą šikšnosparnių aktyvumą, VE menčių sukimasis turi būti sustabdomas ne vėliau kaip per 35 sekundes ir neveikti, kol praeis poveikio pavojus.	Vertinamas sistemos efektyvumas atpažįstant jautrias paukščių rūšis ar nustatant šikšnosparnių aktyvumą.
4.	Technologinės prevencijos priemonės turi registruoti 500 m atstumu nuo VE buvusius paukščius ar VE mentės atstumu buvusius šikšnosparnius. Taip pat turi būti registruojamas kiekvienas technologines priemonės panaudojimo atvejis. Jei užfiksuojamas susidūrimo atvejis, jį turi būti galima peržiūrėti.	Sudaroma galimybė fiksuoti ir vėliau analizuoti galimus ir faktinius susidūrimus.
5.	Poveikio paukščiams technologinėse prevencijos priemonėse turi būti užtikrinamas paukščių identifikavimo miško ar kitų kraštovaizdžio elementų, ribojančių paukščių aptikimo galimybes, fone funkcionalumas.	Reikalavimu užtikrinama, kad galimus susidūrimus bus galima nustatyti ne tik atviroje erdvėje, bet ir miško fone.

15 lentelė. Poveikio mažinimo priemonės paukščiams

VE Nr.	Galimas poveikis	Siūlomos poveikio mažinimo priemonės
10	Jūrinio erelio lizdo apsaugos zona	Įrengti paukščių išankstinio aptikimo - reagavimo sistemą (veikia visus metus šviesiu paros metu)
17	Mažojo erelio rėksnio artima lizdo aplinka	Įrengti paukščių išankstinio aptikimo - reagavimo sistemą (Kovo 25 d.– rugsėjo 30 d.; šviesusis paros metas)
18	Mažojo erelio rėksnio artima lizdo aplinka	Įrengti paukščių išankstinio aptikimo - reagavimo sistemą (Kovo 25 d.– rugsėjo 30 d.; šviesusis paros metas)
19	Mažojo erelio rėksnio artima lizdo aplinka	Įrengti paukščių išankstinio aptikimo - reagavimo sistemą (Kovo 25 d.– rugsėjo 30 d.; šviesusis paros metas)
20	Mažojo erelio rėksnio artima lizdo aplinka	Įrengti paukščių išankstinio aptikimo - reagavimo sistemą (Kovo 25 d.– rugsėjo 30 d.; šviesusis paros metas)
21	Mažojo erelio rėksnio artima lizdo aplinka	Įrengti paukščių išankstinio aptikimo - reagavimo sistemą (Kovo 25 d.– rugsėjo 30 d.; šviesusis paros metas)
22	Mažojo erelio rėksnio artima lizdo aplinka	Įrengti paukščių išankstinio aptikimo - reagavimo sistemą (Kovo 25 d.– rugsėjo 30 d.; šviesusis paros metas)
24	Mažojo erelio rėksnio artima lizdo aplinka	Įrengti paukščių išankstinio aptikimo - reagavimo sistemą (Kovo 25 d.– rugsėjo 30 d.; šviesusis paros metas)
25	Nėra reikšmingo poveikio	Įrengti paukščių išankstinio aptikimo - reagavimo sistemą (Kovo 25 d.– rugsėjo 30 d.; šviesusis paros metas)
-	Visi paukščiai ir šikšnosparniai	Statant parką nekeisti teritorijos hidrologinio režimo ir gamtinės aplinkos, nekirsti medžių, želdinių, be ornitologų konsultacijų nevykdyti statybų paukščių perėjimo metu nuo gegužės 1 d. iki rugpjūčio 1 d.

16 lentelė. Poveikio mažinimo priemonės šikšnosparniams

VE Nr.	Galimo poveikio pagrindimas	Siūlomos poveikio mažinimo priemonės
10	Registracijų kiekis ir rūšinė sudėtis	Įrengti automatiškai šikšnosparnius nustatančią ir kritiniu atveju VE veiklą stabdančią sistemą. Tai šikšnosparnių prie konkrečios VE ultragarso signalų registravimo kiekių per minute sistema, kuri išjungia konkrečią VE ar jų grupę kai pasiekimas reikšmingas šikšnosparnių ultragarso registracijų skaičius, pvz., „Wildlife Acoustics' Song Meter with Analysis and Remote Transfer (SMART)

VE Nr.	Galimo poveikio pagrindimas	Siūlomos poveikio mažinimo priemonės
		system“. Priemonės veikimo principas – fiksuoti visus ultragarso įrašus aplinkoje realiu laiku ir užfiksavus reikšmingą šikšnosparnių ultragarsų skaičių (2 registracijos per minutę (taikomas itin pažeidžiamų rūšių indeksas), pagal Aprašo reikalavimus VE yra išjungiamos iki kol vėl neregistruojama reikšmingo skaičiaus.
17	- Registracijų kiekis ir rūšinė sudėtis	Įrengti automatiškai šikšnosparnius nustatančią ir kritiniu atveju VE veiklą stabdančią sistemą. Tai šikšnosparnių prie konkrečios VE ultragarso signalų registravimo kiekių per minute sistema, kuri išjungia konkrečią VE ar jų grupę kai pasiekimas reikšmingas šikšnosparnių ultragarso registracijų skaičius, pvz., „Wildlife Acoustics’ Song Meter with Analysis and Remote Transfer (SMART) system“. Priemonės veikimo principas – fiksuoti visus ultragarso įrašus aplinkoje realiu laiku ir užfiksavus reikšmingą šikšnosparnių ultragarsų skaičių (2 registracijos per minutę (taikomas itin pažeidžiamų rūšių indeksas), pagalAprašo reikalavimus) VE yra išjungiamos iki kol vėl neregistruojama reikšmingo skaičiaus.
18	Registracijų kiekis ir rūšinė sudėtis	Įrengti automatiškai šikšnosparnius nustatančią ir kritiniu atveju VE veiklą stabdančią sistemą. Tai šikšnosparnių prie konkrečios VE ultragarso signalų registravimo kiekių per minute sistema, kuri išjungia konkrečią VE ar jų grupę kai pasiekimas reikšmingas šikšnosparnių ultragarso registracijų skaičius, pvz., „Wildlife Acoustics’ Song Meter with Analysis and Remote Transfer (SMART) system“. Priemonės veikimo principas – fiksuoti visus ultragarso įrašus aplinkoje realiu laiku ir užfiksavus reikšmingą šikšnosparnių ultragarsų skaičių (2 registracijos per minutę (taikomas itin pažeidžiamų rūšių indeksas), pagalAprašo reikalavimus) VE yra išjungiamos iki kol vėl neregistruojama reikšmingo skaičiaus.
19	Arčiau nei 200 m +sparnuotės ilgis nuo miško Registracijų kiekis ir rūšinė sudėtis	VE startinio greičio didinimas nuo gamykliškai nustatyto iki 6 m/s nuo saulės laidos iki saulėtekio apimant laikotarpį nuo gegužės 1 d.– iki spalio 15 d. (oro temperatūra ne mažesnė kaip 10 °C, nelyja, nėra rūko);arba Įrengti automatiškai šikšnosparnius nustatančią ir kritiniu atveju VE veiklą stabdančią sistemą. Tai šikšnosparnių prie konkrečios VE ultragarso signalų registravimo kiekių per minute sistema, kuri išjungia konkrečią VE ar jų grupę kai pasiekimas reikšmingas šikšnosparnių ultragarso registracijų skaičius, pvz. „Wildlife Acoustics’ Song Meter with Analysis and Remote Transfer (SMART) system“. Priemonės veikimo principas – fiksuoti visus ultragarso įrašus aplinkoje realiu laiku ir užfiksavus reikšmingą šikšnosparnių ultragarsų skaičių (2 registracijos per minutę (taikomas itin pažeidžiamų rūšių indeksas), pagalAprašo reikalavimus) VE yra išjungiamos iki kol vėl neregistruojama reikšmingo skaičiaus.
20	Arčiau nei 200 m +sparnuotės ilgis nuo miško linijos Registracijų kiekis ir rūšinė sudėtis	VE startinio greičio didinimas nuo gamykliškai nustatyto iki 6 m/s nuo saulės laidos iki saulėtekio apimant laikotarpį nuo gegužės 1 d.– iki spalio 15 d. (oro temperatūra ne mažesnė kaip 10 °C, nelyja, nėra rūko); arba: Įrengti automatiškai šikšnosparnius nustatančią ir kritiniu atveju VE veiklą stabdančią sistemą. Tai šikšnosparnių prie konkrečios VE ultragarso signalų registravimo kiekių per minute sistema, kuri išjungia konkrečią VE ar jų grupę kai pasiekimas reikšmingas šikšnosparnių ultragarso registracijų skaičius, pvz., „Wildlife Acoustics’ Song Meter with Analysis and Remote Transfer (SMART) system“. Priemonės veikimo principas – fiksuoti visus ultragarso įrašus aplinkoje realiu laiku ir užfiksavus reikšmingą šikšnosparnių ultragarsų skaičių (2 registracijos per minutę (taikomas itin pažeidžiamų rūšių indeksas), pagalAprašo reikalavimus) VE yra išjungiamos iki kol vėl neregistruojama reikšmingo skaičiaus.
21	Arčiau nei 200 m +sparnuotės ilgis	VE startinio greičio didinimas nuo gamykliškai nustatyto iki 6 m/s nuo saulės laidos iki saulėtekio apimant laikotarpį nuo gegužės 1 d.– iki spalio 15 d. (oro

VE Nr.	Galimo poveikio pagrindimas	Siūlomos poveikio mažinimo priemonės
	nuo miško linijos Registracijų kiekis ir rūšinė sudėtis	temperatūra ne mažesnė kaip 10 °C, nelyja, nėra rūko); arba: Įrengti automatiškai šikšnosparnius nustatančią ir kritiniu atveju VE veiklą stabdančią sistemą. Tai šikšnosparnių prie konkrečios VE ultragarso signalų registravimo kiekių per minute sistema, kuri išjungia konkrečią VE ar jų grupę kai pasiekimas reikšmingas šikšnosparnių ultragarso registracijų skaičius, pvz., „Wildlife Acoustics' Song Meter with Analysis and Remote Transfer (SMART) system". Priemonės veikimo principas – fiksuoti visus ultragarso įrašus aplinkoje realiu laiku ir užfiksavus reikšmingą šikšnosparnių ultragarsų skaičių (2 registracijos per minutę (taikomas itin pažeidžiamų rūšių indeksas), pagalAprašo reikalavimus) VE yra išjungiamos iki kol vėl neregistruojama reikšmingo skaičiaus.
22	Nėra	
24	Arčiau nei 200 m +sparnuotės ilgis nuo miško linijos	VE startinio greičio didinimas nuo gamykliškai nustatyto iki 6 m/s nuo saulės laidos iki saulėtekio apimant laikotarpį nuo gegužės 1 d.– iki spalio 15 d. (oro temperatūra ne mažesnė kaip 10 °C, nelyja, nėra rūko);arba Įrengti automatiškai šikšnosparnius nustatančią ir kritiniu atveju VE veiklą stabdančią sistemą. Tai šikšnosparnių prie konkrečios VE ultragarso signalų registravimo kiekių per minute sistema, kuri išjungia konkrečią VE ar jų grupę kai pasiekimas reikšmingas šikšnosparnių ultragarso registracijų skaičius, pvz., „Wildlife Acoustics' Song Meter with Analysis and Remote Transfer (SMART) system". Priemonės veikimo principas – fiksuoti visus ultragarso įrašus aplinkoje realiu laiku ir užfiksavus reikšmingą šikšnosparnių ultragarsų skaičių (2 registracijos per minutę (taikomas itin pažeidžiamų rūšių indeksas), pagalAprašo reikalavimus) VE yra išjungiamos iki kol vėl neregistruojama reikšmingo skaičiaus.
25	Arčiau nei 200 m +sparnuotės ilgis nuo miško linijos	VE startinio greičio didinimas nuo gamykliškai nustatyto iki 6 m/s nuo saulės laidos iki saulėtekio apimant laikotarpį nuo gegužės 1 d.– iki spalio 15 d. (oro temperatūra ne mažesnė kaip 10 °C, nelyja, nėra rūko);arba Įrengti automatiškai šikšnosparnius nustatančią ir kritiniu atveju VE veiklą stabdančią sistemą. Tai šikšnosparnių prie konkrečios VE ultragarso signalų registravimo kiekių per minute sistema, kuri išjungia konkrečią VE ar jų grupę kai pasiekimas reikšmingas šikšnosparnių ultragarso registracijų skaičius, pvz., „Wildlife Acoustics' Song Meter with Analysis and Remote Transfer (SMART) system". Priemonės veikimo principas – fiksuoti visus ultragarso įrašus aplinkoje realiu laiku ir užfiksavus reikšmingą šikšnosparnių ultragarsų skaičių (2 registracijos per minutę (taikomas itin pažeidžiamų rūšių indeksas), pagalAprašo reikalavimus) VE yra išjungiamos iki kol vėl neregistruojama reikšmingo skaičiaus.
Rekomenduojamas pakartotinis šikšnosparnių tyrimas prieš pradedant eksploatuoti parką ir priemonių tikslinimas.		

5.4 Priedėlis. Foninių VE PAV atrankų ir PVSV išvados

Nacionalinis visuomenės sveikatos centras prie Sveikatos apsaugos ministerijos

Informacija apie priimtą sprendimą dėl planuojamos ūkinės veiklos galimybių

44	Elektros energijos gamyba, perdavimas ir paskirstymas.	Žievelіškių k., Blauzdžių k., Palankesių k., Žeimių sen. ir Vanagiškių k., Kulvos sen., Jonavos r. sav.	UAB „Potentia industriae“	VšĮ Pajūrio tyrimų ir planavimo institutas,	Planuojama ūkinė veikla – vėjo elektrinių parko įrengimas. Parke planuojama įrengti 9 vėjo elektrines.	162,04 ha	Brėžinys	Leidžiama	2020-06-18 Nr.:(2-11 14.3.4 E)BSV-12443

APLINKOS APSAUGOS AGENTŪRA

Biudžetinė įstaiga, A. Juozapavičiaus g. 9, LT-09311 Vilnius, tel. +360 682 92653, el.p. aaa@gamta.lt, https://aaa.lrv.lt/
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188784898

Adresatams pagal sąrašą

ATRANKOS IŠVADA DĖL VĖJO ELEKTRINIŲ PARKO ĮRENGIMO VANDŽIOGALOS SEN., PREIŠIOGALOS K., KAUNO R. SAV. POVEIKIO APLINKAI VERTINIMO

2022-09- Nr. (30.2)-A4E-

1. Planuojamos ūkinės veiklos organizatorius (fizinio asmens vardas, pavardė; juridinio asmens pavadinimas, adresas, telefono numeris, el. pašto adresas).

UAB „Boniškių vėjas“, Kauno g. 4-6, 55176 Jonava, tel. +370 65 762107, el. p. gytis.januska@gmail.com.

2. Poveikio aplinkai vertinimo dokumentų rengėjas (fizinio asmens vardas, pavardė; juridinio asmens pavadinimas, adresas, telefono numeris, el. pašto adresas).

VšĮ Pajūrio tyrimų ir planavimo institutas (PTPI), V. Berbomo g. 10-206, LT-92221, Klaipėda, tel. +370 46 398848, faksas +370 46 390818, el. p. info@corpi.lt.

3. Planuojamos ūkinės veiklos atrankos dėl poveikio aplinkai vertinimo atlikimo teisinis pagrindas pagal Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 7 straipsnio 2 dalį, nurodant šio įstatymo 2 priedo punktą (-us).

Atranka atliekama, vadovaujantis Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo (toliau – PAV įstatymas) 2 priedo 3.8. punkto 3.8.1 papunkčiu – kai įrengiamos 3 vėjo elektrinės, kurių bent vienos aukštis 50 m (matuojant iki aukščiausio konstrukcijų taško) ar daugiau.

4. Planuojamos ūkinės veiklos vieta.

Planuojamos ūkinės veiklos (toliau – PŪV) vieta yra žemės sklypuose kad. Nr. 5240/0001:4, 5240/0001:1, 5240/0001:10, 5240/0001:13 esančiuose Preišiogalos k., Vandžiogalos sen., Kauno r. sav. Vėjo elektrinių įrengimui žemės sklypai bus padalinami, atidalintos žemės sklypo dalies, kurioje bus įrengiamos vėjo elektrinės, paskirtis bus keičiama į „Kita“.

Vadovaujantis Bendrojo plano[1] žemės naudojimo ir apsaugos reglamentų brėžinio duomenimis, analizuojami žemės sklypai patenka į žemės ūkio teritorijas. Pagal galiojančius Bendrojo plano sprendinius: „Alternatyvios energetikos (biokuras, hidroenergija, saulė, vėjas, geoterminė energija) objektų vystymas galimas visur, kur yra konkrečiai alternatyvios energetikos rūšiai tinkamos sąlygos bei galima užtikrinti, kad vystant šią infrastruktūrą nebus pažeisti trečiųjų šalių interesai bei nebus reikšmingo neigiamo poveikio aplinkai ir žmonių gerovei“.

Vadovaujantis galiojančio Bendrojo plano Gamtinio karkaso brėžinio sprendinių

[1] Kauno rajono savivaldybės teritorijos bendrojo plano 1-ojo pakeitimo koregavimas, patvirtintas 2020 m. gegužės 28 d. Kauno rajono savivaldybės tarybos sprendimu TS-233 „Dėl Kauno rajono savivaldybės teritorijos bendrojo plano 1-ojo pakeitimo koregavimo patvirtinimo“ (toliau – Bendrasis planas).

duomenimis planuojamos vėjo elektrinių įrengimo vietos nepatenka į gamtinio karkaso teritorijas.

Artimiausia gyvenamoji aplinka nutolusi 1,1–1,2 km nuo artimiausių vėjo elektrinių. Artimiausios urbanizuotos teritorijos yra Boniškių, Preišiogalos, Preišiogalėlės kaimai. Artimiausias visuomeninės paskirties objektas – Kauno r. Vandžiogalos gimnazijos ikimokyklinio ugdymo skyrius nutolęs 6,5 km atstumu nuo planuojamos vėjo elektrinės į vakarus.

Vadovaujantis Lietuvos ornitologų draugijos su partneriais (Pajūrio tyrimų ir planavimo institutu ir Lietuvos energetikos institutu) nuo 2015 m. vasario iki 2017 kovo mėn. įgyvendinto projekto „Vėjo energetikos plėtra ir biologinei įvairovei svarbios teritorijos (VENBIS)“ duomenimis, PŪV patenka į vidutiniškai jautrias, mažai jautrias teritorijas arba patenka į teritorijas, kuriose nepakanka duomenų jautrumui nustatyti paukščių, šikšnosparnių atžvilgiu.

Analizuojamai vietovei artimiausi paviršinio vandens telkiniai yra upė Klampis, nutolusi 610 m atstumu nuo artimiausios vėjo elektrinės į šiaurę. Į pietus nuo analizuojamos teritorijos prateka Mėklos upė. Vėjo elektrinių išdėstymas sklypuose parinktas taip, kad planuojamų vėjo elektrinių vietos nepatektų į paviršinių vandens telkinių pakrantės apsaugos juostas.

PŪV žemės sklypuose registruotų kultūros paveldo vertybių nėra. Artimiausia planuojamai teritorijai kultūros vertybė – Laikiškių kapinynas – nuo PŪV teritorijos nutolusi apie 4,8 km atstumu.

Atstumas iki kitų planuojamų vėjo elektrinių yra apie ~5,1 km: UAB „Vandžiogalos vėjas“ užsakymu Vandžiogalos seniūnijoje, Kauno rajono savivaldybėje planuojamoms vėjo elektrinėms yra pradėti rengti atrankos dėl poveikio aplinkai vertinimo dokumentai. Rengiamuose UAB „Vandžiogalos vėjas“ PŪV atrankos dėl poveikio aplinkai vertinimo dokumentuose bus pateikta informacija apie abiejų parkų suminį poveikį.

5. Trumpas planuojamos ūkinės veiklos aprašymas.

Planuojama įrengti iki 6 vėjo elektrinių. Analizuojamų vėjo elektrinių modelių techniniai parametrai: nominali galia 5,7 - 7,2 MW, bokšto aukštis – 164-167 m, rotoriaus skersmuo – 164-172 m, bendras aukštis – iki 252 m. Projekto įgyvendinimo metu gali būti pasirinkti kiti tuo metu rinkoje prieinami analogiški, panašių charakteristikų skirtingų gamintojų vėjo elektrinių modeliai.

Į statybos vietą atvežami gamykliniai vėjo elektrinių elementai. Ant įrengtų pamatų montuojamas vėjo elektrinės bokštas, tvirtinamas rotorius ir mentės.

Planuojamų vėjo elektrinių generuojama elektros energija požeminiais kabeliais bus pajungta į planuojamą transformatorinę pastotę pagal elektros tinklų operatoriaus išduotas prijungimo sąlygas. Kabelinių elektros linijų tiesimui per privačius žemės sklypus bus gauti rašytiniai žemės savininkų sutikimai. Planuojant statybą ir eksploataciją, numatoma maksimaliai panaudoti esamus kelius, nuo kurių iki planuojamų vėjo elektrinių įrengimo vietų bus įrengti privažiavimai. Privažiavimo kelių įrengimo darbų metu derlingas dirvožemio sluoksnis bus nustumtas į kaupus, sandėliuojamas ir baigus statybos bei įrengimo darbus panaudotas teritorijos formavimui. Esami keliai pagal poreikį bus sustiprinti, t. y. lauko keliai greideriuojami, užlyginamos esamos duobės, atnaujinama žvyro danga, vietinės reikšmės keliai periodiškai prižiūrimi.

Analizuojamuose žemės sklypuose yra įrengtos valstybei priklausančios melioracijos sistemos. Esant poreikiui, vėjo elektrinių statybos metu melioracijos įrenginiai bus perkeliami, nepažeidžiant jų naudojimo sistemos.

PŪV metu nenumatoma naudoti pavojingų cheminių medžiagų ar preparatų, radioaktyvių medžiagų, pavojingų ar nepavojingų atliekų.

Vėjo elektrinių parko statybos metu, įrengiant aptarnavimo aikšteles, montuojant pamatus gali susidaryti nedideli kiekiai statybinių atliekų. Visos darbų metu susidarančios statybinės atliekos rūšiuojamos ir saugomos konteineriuose, iki jų išvežimo ir perdavimo atliekų tvarkytojams. Visos susidariusios atliekos tvarkomos vadovaujantis atliekų tvarkymą reglamentuojančių teisės aktų nuostatomis.

Vykdant planuojamą ūkinę veiklą gamybinių, buitinių nuotekų nesusidarys.

6. Priemonės numatomam reikšmingam neigiamam poveikiui aplinkai išvengti arba užkirsti jam kelią ir jų įgyvendinimo grafikas.

6.1. Įrengiant vėjo elektrines, tiesiant elektros kabelį, nebus vykdomi miškų kirtimo darbai, nekeičiamas teritorijos hidrologinis režimas. Vėjo elektrinės įrengiamos atsitraukiant už paviršinių vandens telkinių pakrančių apsaugos juostų ribų.

6.2. Numatoma išsaugoti nuimtą derlingąjį dirvožemio sluoksnį, panaudojant jį pažeistų žemės plotų atkūrimui.

6.3. Analizuojamuose žemės sklypuose yra įrengtos valstybei priklausančios melioracijos sistemos. Esant poreikiui, vėjo elektrinių statybos metu melioracijos įrenginiai bus perkeliami, nepažeidžiant jų sistemos.

6.4. Numatoma parengti ir suderinti paukščių ir šikšnosparnių monitoringo programą vėjo elektrinių parko poveikiui migruojantiems, perintiems paukščiams ir besiveisiantiems bei migruojantiems šikšnosparniams įvertinti. Monitoringo vykdymo metu nustačius reikšmingą neigiamą poveikį paukščiams ir/arba šikšnosparniams bus numatomos poveikio mažinimo priemonės, kaip pavyzdžiui: vėjo elektrinių paleidimo greičio didinimas, paukščių aptikimo įrangos – radaro/detektoriaus montavimas, mažinant neigiamą poveikį plėšriesiems paukščiams gali būti naudojamos telemetrinės priemonės, mitybinių buveinių keitimas, taip pat nustatomas vėjo elektrinių stabdymo laikotarpis.

6.5. Siekiant sumažinti galimą kabelių tiesimo per paviršinio vandens telkinius poveikį aplinkai, kabelio linija per Mėklos ir Barupės upes bus tiesiama prastūmimo būdu, t. y. upelių vaga nebus pažeidžiama kasant atviru būdu.

6.6. Vėjo elektrinių parko įrengimo darbus numatoma vykdyti tik darbo dienomis dienos metu.

6.7. Statybos darbai bus vykdomi tik techniškai tvarkingais mechanizmais, kurių skleidžiamas triukšmo lygis neviršys STR 2.01.08:2003 „Lauko sąlygomis naudojamos įrangos į aplinką skleidžiamo triukšmo valdymas“ nustatytų lauko įrangos leidžiamų garso galios lygių.

6.8. Vykdomos veiklos metu paaiškėjus, kad daromas didesnis poveikis aplinkai už atrankos informacijoje pateiktus arba teisės aktuose nustatytus rodiklius, veiklos vykdytojas privalės nedelsiant taikyti papildomas poveikį aplinkai mažinančias priemones arba mažinti veiklos apimtis/nutraukti veiklą.

6.9. Veiklos vykdytojas visais atvejais privalės laikytis visų aktualių veiklą reglamentuojančių teisės aktų reikalavimų, keičiantis teisiniam reglamentavimui atitinkamai keisti veiklos rodiklius.

7. Motyvai, kuriais remtasi priimant atrankos išvadą.

7.1. PŪV teritorija nepatenka į draustinių, rezervatų, „Natura 2000“ ar kitas saugomų teritorijų ribas. Artimiausios saugomos „Natura 2000“ teritorijos – Labūnavos miškas, PAST nuo PŪV vietos nutolęs 1,76 km atstumu į šiaurės vakarus ir Gelnų miškas, BAST – 2,9 km atstumu ta pačia kryptimi, taip pat nei viena planuojama vėjo elektrinė nepatenka į Labūnavos miškui rekomenduojamą apsaugos zoną. Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos 2022-08-23 raštu Nr. (4)-V3-1233 informavo, kad „Natura 2000“ teritorijose saugomos vertybės nėra jautrios PŪV bei nustatyti PŪV poveikio įsteigtoms ar potencialioms „Natura 2000“ teritorijoms reikšmingumo nereikia.

7.2. Vadovaujantis Nacionalinio kraštovaizdžio tvarkymo plano, patvirtinto Lietuvos Respublikos aplinkos ministro 2015-10-02 įsakymu Nr. D1-703 „Dėl nacionalinio kraštovaizdžio tvarkymo plano“ kraštovaizdžio vizualinio estetinio potencialo brėžiniu, PŪV teritorija patenka į V0H2-d indeksais pažymėtą kraštovaizdžio vizualinės struktūros tipą. Šio vizualinio struktūros tipo kraštovaizdžiuose vyrauja neraiški vertikalioji sąskaida (*V0*) (lyguminis kraštovaizdis su vieno lygmens videotopais) su vyraujančių pusiau atvirų didžiąja dalimi apžvelgiamų erdvių kraštovaizdžiu (*H2*). Kraštovaizdžio erdvinė struktūra be raiškų vertikalių ir horizontalių dominančių (d). Pagal Vertingiausių Lietuvos kraštovaizdžio panoramų apžvalgos taškų žemėlapį artimiausi kraštovaizdžio apžvalgos taškai nutolę 17,3 km atstumu nuo PŪV vietos. Pagal atliktą poveikio kraštovaizdžiui vertinimą nustatyta, kad įrengus 252 m bendro aukščio vėjo elektrines

vertikalus matymo kampas galėtų viršyti 2,80º laipsnio ribą apie 4,6-5,1 km atstumu nuo analizuojamų vėjo elektrinių. Pagal Vertingiausių Lietuvos kraštovaizdžio panoramų apžvalgos taškų žemėlapį tokiu atstumu kraštovaizdžio apžvalgos taškų nėra. Pagal atliktą vertinimą PŪV nesukels reikšmingo poveikio kraštovaizdžio vizualiniam estetiniam potencialui.

7.3. Triukšmo sklaidos modeliavimas atliktas WindPRO programa, kuomet vienu metu veikia visos 6 planuojamos vėjo elektrinės. Pagal modeliavimo rezultatus 45 dBA triukšmo lygio izolinijos susiformuoja apie 256–366 m atstumu nuo vėjo elektrinių. Pagal triukšmo sklaidos modeliavimo rezultatus nustatyta, kad vėjo elektrinių sukeliamas triukšmo lygis gyvenamoje aplinkoje (40 m atstumu nuo gyvenamojo pastato arba ties gyvenamojo pastato žemės sklypo riba) gali siekti 33,0–34,9 dBA ir neviršys Lietuvos higienos normoje HN 33:2011 „Triukšmo ribiniai dydžiai gyvenamuosiuose ir visuomeninės paskirties pastatuose bei jų aplinkoje“, patvirtintoje Lietuvos Respublikos sveikatos apsaugos ministro 2011 m. birželio 13 d. įsakymu Nr. V-604 „Dėl Lietuvos higienos normos HN 33:2011 „Triukšmo ribiniai dydžiai gyvenamuosiuose ir visuomeninės paskirties pastatuose bei jų aplinkoje“ patvirtinimo“, reglamentuojamų triukšmo ribinių dydžių.

7.4. Šešėliavimo artimiausioje gyvenamojoje aplinkoje įvertinimui atliktas modeliavimas programa WindPRO. Atliktas planuojamų vėjo elektrinių šešėliavimo sklaidos modeliavimas parodė, kad artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:07 val./metus iki 13:19 val./metus ir neviršys 30 val./metus.

7.5. PŪV teritorijoje nėra aptikta jokių Europos Bendrijos svarbos natūralių buveinių, vertingų saugomų gyvūnų ar augalų rūšių, jų augaviečių ar radaviečių, todėl neigiamas PŪV poveikis šiems aplinkos komponentams nenumatomas.

7.6. Vėjo elektrinių statybos ir eksploatacijos metu cheminė tarša (oro, dirvožemio, vandens teršalų, nuosėdų susidarymas) nesusidarys. PŪV neturės įtakos vandens naudojimui ir buitinių ar gamybinių nuotekų susidarymui.

7.7. Visos darbų metu susidarančios statybinės atliekos bus rūšiuojamos ir saugomos konteineriuose iki jų išvežimo ir perdavimo atliekų tvarkytojams. Visos susidariusios atliekos tvarkomos vadovaujantis atliekų tvarkymą reglamentuojančių teisės aktų nuostatomis.

7.8. PŪV metu nenumatoma naudoti pavojingų cheminių medžiagų ar preparatų, radioaktyvių medžiagų, pavojingų ar nepavojingų atliekų.

7.9. PŪV metu neigiamas poveikis paviršiniams vandens telkiniams nenumatomas: vėjo elektrinės bus statomos už paviršinių vandens telkinių pakrančių apsaugos juostų ribų, siekiant sumažinti galimą kabelių tiesimo per paviršinio vandens telkinius poveikį aplinkai, kabelio linija per Mėklos ir Barupės upes bus tiesiama prastūmimo būdu, t. y. upelių vaga nebus pažeidžiama kasant atviru būdu.

7.10. PŪV bus planuojama ir vykdoma laikantis Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų, Lietuvos Respublikos Saugomų teritorijų įstatymuose nustatytų reikalavimų.

Poveikio aplinkai vertinimo subjektai: Kauno rajono savivaldybės administracija pagal PAV įstatymo 6 straipsnio 5 dalies 5 punktą, atsakinga už PŪV poveikio aplinkai vertinimo ir šios veiklos galimo poveikio aplinkai, atsižvelgiant į patvirtintų ir galiojančių teritorijų planavimo dokumentų sprendinius bei galimybes pagal teisės aktų reikalavimus juos keisti ir į pagal įstatymus vykdomo savivaldybės aplinkos stebėsenos (monitoringo) duomenis, 2022-09-05 raštu Nr. SD-4232 pateikė išvadą, kad atrankos informacija yra tinkamai papildyta pagal anksčiau pateiktas pastabas ir poveikio aplinkai vertinimo atlikti nepaprašė. Nacionalinio visuomenės sveikatos centro prie Sveikatos apsaugos ministerijos Kauno departamentas pagal PAV įstatymo 6 straipsnio 5 dalies 1 punktą, atsakingas už PŪV veiksnių, darančių įtaką visuomenės sveikatai, galimo poveikio visuomenės sveikatai vertinimą, 2022-09-05 raštu Nr. (2-11 14.3.5 Mr)2-43062 pateikė išvadą, kad pasiūlymų dėl atrankos informacijos bei PŪV poveikio aplinkai vertinimo neturi ir poveikio aplinkai vertinimo atlikti nepaprašė. Priešgaisrinės apsaugos ir gelbėjimo departamento prie Vidaus reikalų ministerijos Kauno priešgaisrinė gelbėjimo valdyba pagal PAV įstatymo 6 straipsnio 5 dalies 3 punktą, atsakinga už PŪV vykdymo metu galimų įvykių, ekstremaliųjų įvykių, ekstremaliųjų situacijų, numatomų priemonių joms išvengti ar sušvelninti ir padariniams likviduoti,

2022-08-02 raštu Nr. 9.4.-6-1065 pateikė išvadą, kad pastabų ir pasiūlymų atrankos informacijai neturi ir poveikio aplinkai vertinimo atlikti nepaprašė. Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis skyrius pagal PAV įstatymo 6 straipsnio 5 dalies 2 punktą, atsakingas už galimą PŪV poveikį nekilnojamajam kultūros paveldui, 2022-09-05 raštu Nr. (9.38-KE)2K-2676 pateikė išvadą, kad atrankos dėl poveikio aplinkai vertinimo dokumentui pritaria ir poveikio aplinkai vertinimo atlikti nepaprašė.

Agentūra, pasibaigus pasiūlymų teikimo terminui dėl PŪV poveikio aplinkai vertinimo, pastabų ir pasiūlymų iš suinteresuotos visuomenės negavo.

8. Priimta atrankos išvada.

Vadovaujantis PAV įstatymo 7 straipsnio 7 dalimi ir atsižvelgus į išdėstytus motyvus priimama atrankos išvada: UAB „Boniškių vėjas“ PŪV – vėjo elektrinių parko įrengimui Vandžiogalos sen., Preišiogalos k., Kauno r. poveikio aplinkai vertinimas neprivalomas.

Atrankos išvada yra priimta pagal pateiktą atrankos informaciją, kuri yra patalpinta Agentūros tinklalapyje *https://aaa.lrv.lt/* nuorodoje *Veiklos sritys > Poveikio aplinkai vertinimas (PAV) > 2022 metai > 3. Atrankos dėl poveikio aplinkai vertinimo informacija 2022 m. > Kauno regionas (48*) *ir yra atrankos išvados sudedamoji dalis.*

9. Nurodoma atrankos išvados apskundimo tvarka.

Šį sprendimą Jūs turite teisę apskųsti Lietuvos administracinių ginčų komisijai (Vilniaus g. 27, 01402 Vilnius) Lietuvos Respublikos ikiteisminio administracinių ginčų nagrinėjimo tvarkos įstatymo nustatyta tvarka arba Vilniaus apygardos administraciniam teismui (Žygimantų g. 2, 01102 Vilnius) Lietuvos Respublikos administracinių bylų teisenos įstatymo nustatyta tvarka per vieną mėnesį nuo jo paskelbimo arba įteikimo dienos.

**APLINKOS APSAUGOS AGENTŪROS 2022- RAŠTO NR. (30.2)-A4E-
ADRESATŲ SĄRAŠAS**

Kauno rajono savivaldybės administracijai
Siunčiama per e. pristatymas sistemą

Nacionaliniam visuomenės sveikatos centro prie Sveikatos apsaugos ministerijos
Siunčiama per e. pristatymas sistemą

Priešgaisrinės apsaugos ir gelbėjimo departamento prie Vidaus reikalų ministerijos Kauno priešgaisrinei gelbėjimo valdybai
Siunčiama per e. pristatymas sistemą

Kultūros paveldo departamentui prie Kultūros ministerijos
Siunčiama per e. pristatymas sistemą

Kopija
Aplinkos apsaugos departamentui prie Aplinkos ministerijos
Siunčiama per e. pristatymas sistemą

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Aplinkos apsaugos agentūra 188784898, A. Juozapavičiaus g. 9, LT-09311 Vilnius
Dokumento pavadinimas (antraštė)	Dėl UAB "Boniškių vėjas" atrankos dėl poveikio aplinkai vertinimo dokumentų
Dokumento registracijos data ir numeris	2022-09-15 Nr. (30-2)-A4E-10198
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2022-09-14 20:40:36 (GMT+03:00)
Parašo formatas	XAdES-T
Laiko žymoje nurodytas laikas	2022-09-14 20:40:46 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	ADIC CA-A, Asmens dokumentu israsymo centras prie LR VRM LT
Sertifikato galiojimo laikas	2022-05-03 10:14:36 – 2025-05-02 10:14:36
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2022-05-19 16:48:06 iki 2025-05-18 16:48:06
Pagrindinio dokumento priedų skaičius	–
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.67
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2022-09-15 10:15:22)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2022-09-15 10:15:22 DBSIS

APLINKOS APSAUGOS AGENTŪRA

Biudžetinė įstaiga, A. Juozapavičiaus g. 9, LT-09311 Vilnius, tel.8 70662008, el. p. aaa@aaa.am.lt, http://gamta.lt.
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188784898

Į 2021-01-19 Nr. S21-4

Adresatams pagal sąrašą

ATRANKOS IŠVADA DĖL VĖJO ELEKTRINIŲ (KETURIŲ) PARKO ĮRENGIMO JONAVOS R. SAV., ŽEIMIŲ SEN., MARTYNIŠKIO IR PALANKESIŲ K. POVEIKIO APLINKAI VERTINIMO

2021-02- Nr. (30.2)-A4E-

1. Planuojamos ūkinės veiklos organizatorius (fizinio asmens vardas, pavardė; juridinio asmens pavadinimas, adresas, telefono numeris, el. pašto adresas).

UAB „Geotyrimų centras“, Mokslininkų g. 6A, LT-08412 Vilnius, tel. +370 69813536, el. p. europeanenergylithuania@gmail.com.

2. Poveikio aplinkai vertinimo dokumentų rengėjas (fizinio asmens vardas, pavardė; juridinio asmens pavadinimas, adresas, telefono numeris, el. pašto adresas).

VšĮ Pajūrio tyrimų ir planavimo institutas, V. Berbomo g. 10-206, LT-92221, Klaipėda, tel. +370 46 398848, faksas +370 46 390818, el. p. info@corpi.lt.

3. Planuojamos ūkinės veiklos atrankos dėl poveikio aplinkai vertinimo atlikimo teisinis pagrindas pagal Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 7 straipsnio 2 dalį, nurodant šio įstatymo 2 priedo punktą (-us).

Atranka atliekama, vadovaujantis Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo (toliau – PAV įstatymas) 2 priedo 3.8. punkto 3.8.1 dalimi – kai įrengiamos 3 vėjo elektrinės, kurių bent vienos aukštis 50 m (matuojant iki aukščiausio konstrukcijų taško) ar daugiau. Taip pat pagal PAV įstatymo 2 priedo 14 punkto nuostatas, kai į Planuojamos ūkinės veiklos, kurios poveikis aplinkai privalo būti vertinamas, rūšių sąrašą ar į Planuojamos ūkinės veiklos, kuriai turi būti atliekama atranka dėl poveikio aplinkai vertinimo, rūšių sąrašą įrašytos planuojamos ūkinės veiklos bet koks keitimas ar išplėtimas, įskaitant esamų statinių rekonstravimą, gamybos proceso ir technologinės įrangos modernizavimą ar keitimą, gamybos būdo, produkcijos kiekio (masto) ar rūšies pakeitimą, naujų technologijų įdiegimą, kai planuojamos ūkinės veiklos keitimas ar išplėtimas gali daryti neigiamą poveikį aplinkai, išskyrus šio įstatymo 1 priedo 10 punkte nurodytus atvejus.

ISO 9001 BUREAU VERITAS Certification

4. Planuojamos ūkinės veiklos vieta.

Planuojamos ūkinės veiklos (toliau – PŪV) vieta yra Jonavos r. savivaldybėje, Žeimių seniūnijoje, Martyniškio ir Palankesių kaimuose. Vėjo elektrinių parką numatoma statyti ir eksploatuoti žemės sklypuose, kurių kadastriniai Nr. 4640/0007:560, 4640/0007:562, 4640/0007:563, 4640/0007:558. Analizuojamų žemės sklypų pagrindinė tikslinė naudojimo paskirtis yra pakeista į kitą, nustatytas žemės sklypo naudojimo būdas – susisiekimo ir inžinerinių komunikacijų aptarnavimo objektų teritorijos, kurių kiekvieno plotas – 0,15 ha.

Vadovaujantis Bendrojo plano[1] ir Specialiojo plano[2] sprendiniais, planuojamos vėjo elektrinės patenka į vėjo elektrinių jėgainių parkų galimos plėtros teritorijų zoną Nr. C1. Pagal Bendrojo plano sprendinius vėjo elektrinės nepatenka į gamtinio karkaso teritoriją.

Artimiausios urbanizuotos teritorijos nuo PŪV nutolusios: apie 0,5 km atstumu Martyniškio gyvenvietė, apie 1 km atstumu yra Žeimių, Palankesių, Žieveliškių, Dargužių gyvenvietės. Artimiausios sodybos yra išsidėsčiusios 0,5-1,4 km atstumu nuo PŪV. Artimiausias visuomeninės paskirties objektas yra Žeimių mokykla – daugiafunkcinis centras, adresu Jonavos r. sav., Žeimiai, Kauno g. 34A, nuo PŪV nutolęs 1,6 km atstumu, šiaurės kryptimi.

Remiantis Žemės gelmių registro duomenimis PŪV teritorijoje nėra naudingų iškasenų telkinių. Artimiausias naudingųjų išteklių telkinys yra Lankesa III telkinys (išteklių rūšis – smėlis, indentifikavimo Nr. 2561), esantis apie 4,7 km atstumu į šiaurę nuo PŪV.

Analizuojamoje vietovėje aktyvių geologinių procesų ar reiškinių (pvz., eroziją, sufoziją, karstus, nuošliaužas) nepastebėta. Pagal Lietuvos geologijos tarnybos pateikiamą informaciją, artimiausia vietovė, kurioje registruotas geologinis reiškinys – nuošliauža yra už 9,9 km nuo analizuojamos vietovės.

Analizuojamoje vietovėje registruotų geotopų nėra. Artimiausias geotopas – akmuo „Valiūnas“, nuo PŪV nutolęs 12,1 km atstumu.

Vadovaujantis Nacionalinio kraštovaizdžio tvarkymo plano, patvirtinto Lietuvos Respublikos aplinkos ministro 2015-10-02 įsakymu Nr. D1-703 „Dėl nacionalinio kraštovaizdžio tvarkymo plano“ kraštovaizdžio vizualinio estetinio potencialo brėžiniu, vietovė patenka į V1H2-c indeksais pažymėtą kraštovaizdžio vizualinės struktūros tipą. Šio vizualinio struktūros tipo kraštovaizdžiuose vyrauja silpna vertikalioji sąskaida (V1) (banguotasis bei lėkštašlaičių slėnių kraštovaizdis su dviejų lygmenų videotopų kompleksais) su vyraujančių pusiau atvirų didžiąja dalimi apžvelgiamų erdvių kraštovaizdžiu (H2). Kraštovaizdžio erdvinėje struktūroje raiškios tik vertikalios dominatės (c).

PŪV teritorija nepatenka į draustinių, rezervatų, „Natura 2000“ ar kitas saugomų teritorijas. Artimiausia saugoma „Natura 2000“ paukščių apsaugai svarbi teritorija (PAST) teritorija – Labūnavos miškas – nuo analizuojamos teritorijos yra nutolusi apie 9,7 km atstumu, vakarų kryptimi.

Analizuojamuose žemės sklypuose nėra Europos Bendrijos svarbos natūralių buveinių. Artimiausia Europos Bendrijos svarbos natūrali buveinė – 6510 Šienaujamos mezofitų pievos – nuo PŪV nutolusi apie 170 m atstumu.

Žemės sklypuose, kurie analizuojami vėjo elektrinių įrengimui, miško naudmenų nėra. Pagal Lietuvos Respublikos miškų valstybės kadastro duomenis, artimiausias miško plotas nuo VE-03 nutolęs apie 70 m atstumu.

Saugomų rūšių informacinės sistemos duomenimis apie 1,9 km atstumu nuo planuojamos VE-01 vietos, 2015-07-24 stebėtas mažasis erelis rėksnys. Duomenų apie mažojo erelio rėksnio perėjimą šioje vietovėje nėra. Palankesių gyvenvietėje, apie 1,3 km atstumu nuo planuojamų VE-04

[1] Jonavos rajono savivaldybės teritorijos bendrojo plano pakeitimas, patvirtintas 2017-12-21 Jonavos rajono savivaldybės Tarybos sprendimu Nr. 1TS-295 (toliau – Bendrasis planas).

[2] Atsinaujinančių energijos išteklių naudojimo plėtros Jonavos rajono savivaldybės teritorijoje specialusis planas, patvirtintas Jonavos rajono savivaldybės Tarybos 2013-10-31 sprendimu Nr. 1TS-322 (toliau – Specialusis planas).

ir VE-05 vietų stebėti šikšnosparniai – Dvispalvis plikšnys, Rudasis nakviša, Vėlyvasis šikšnys ir Šikšniukas nykštukas. PŪV yra parengta ir suderinta paukščių ir šikšnosparnių monitoringo programa, stebėjimai pradėti vykdyti. 2020 metais planuojamoje ir gretimose teritorijose pradėti jautrių vėjo elektrinių veiklai paukščių rūšių stebėjimai, pavasario–rudens laikotarpiu buvo vykdomos paukščių migracijų ir perskirdimų apskaitos, migruojančių ir perskrendančių paukščių sankaupų maršrutiniai stebėjimai. Stebint paukščių migracijas ir perskridimus planuojamoje vėjo elektrinių teritorijoje, 2020 metų pavasario–rudens sezonu, buvo registruotos 63 paukščių rūšys. Bendras stebėtų praskridusių paukščių skaičius teritorijoje – 24084 individai. 2020 metų šikšnosparnių migracijos laikotarpiu, t. y. rugpjūčio–rugsėjo mėnesiais, fiksuoti 2847 šikšnosparnių signalai, kurie priklausė 14 šikšnosparnių rūšių. Konkrečios poveikio mažinimo priemonės bus parenkamos individuliai kiekvienu atveju pagal tyrimų metu identifikuotą poveikį.

Vadovaujantis Lietuvos ornitologų draugijos su partneriais (Pajūrio tyrimų ir planavimo institutu ir Lietuvos energetikos institutu) nuo 2015 m. vasario iki 2017 kovo mėn. įgyvendinto projekto „Vėjo energetikos plėtra ir biologinei įvairovei svarbios teritorijos (VENBIS)“ duomenimis, perinčių paukščių atžvilgiu 3 vėjo elektrinės patenka į vidutiniškai jautrias teritorijas, o 1 vėjo elektrinė patenka į mažai jautrias teritorijas. Migruojančių ir žiemojančių paukščių atžvilgiu 2 vėjo elektrinės patenka į mažai jautrias teritorijas, o 2 vėjo elektrinės patenka į teritoriją, kurioje nepakanka duomenų jautrumui nustatyti. Šikšnosparnių atžvilgiu 2 vėjo elektrinės patenką į mažai jautrias teritorijas, o 2 vėjo elektrinės patenką į teritoriją, kurioje nepakanka duomenų jautrumui nustatyti.

Artimiausias paviršinio vandens telkinys yra Lankesos upė, nuo PŪV nutolusi 190 m. Vėjo elektrinių įrengimas numatomas už paviršinių vandens telkinių pakrančių apsaugos juostų ribų.

Vadovaujantis Lietuvos Respublikos teritorijų, kuriose gali būti ribojami vėjo elektrinių (aukštų statinių) projektavimo ir statybos darbai, žemėlapiu, patvirtintu Lietuvos kariuomenės vado 2016-02-15 įsakymu Nr. V – 217 „Dėl Lietuvos Respublikos teritorijų, kuriose gali būti ribojami vėjo elektrinių (aukštų statinių) projektavimo ir statybos darbai, žemėlapio patvirtinimo“, teritorija, kurioje numatyta vėjo elektrinių statyba, patenka į teritorijas, kuriose vėjo elektrinių statybos vietoms nėra taikomi jokie apribojimai.

PŪV žemės sklypuose registruotų kultūros paveldo vertybių nėra. Artimiausia planuojamai teritorijai kultūros vertybė – Lietuvos kario Andriaus Jakaičio kapas – nuo PŪV teritorijos nutolęs apie 940 m atstumu.

5. Trumpas planuojamos ūkinės veiklos aprašymas.

Aplinkos apsaugos agentūra (toliau – Agentūra) 2019-04-12 raštu Nr. (30.2)-A4E-2919 priėmė atrankos išvadą, kad UAB „Geotyrimų centras“ PŪV – 20 MW bendros galios vėjo elektrinių parko statybai Jonavos r. sav., Žeimių sen., Martyniškio k., Palankesių k. poveikio aplinkai vertinimas neprivalomas. Naujos atrankos dėl poveikio aplinkai vertinimo procedūros atliekamos, nes PŪV organizatorius nusprendė sumažinti projekto apimtis ir keitėsi vėjo elektrinės modelis.

Planuojama įrengti 4 vėjo elektrines. Analizuojami modeliai GE 5.5-158 (VE-01) ir GE 5.0–158 (VE-03, VE-04, VE-05), nominali galia 5-5,5 MW, bokšto aukštis – 151 m, rotoriaus skersmuo – 158 m, bendras aukštis – iki 230 m. Į statybos vietą atvežami gamykliniai vėjo elektrinių elementai, tuomet ant įrengtų pamatų montuojamas bokštas, tvirtinamas rotorius ir mentės.

Planuojamų vėjo elektrinių generuojama elektros energija požeminiais kabeliais bus pajungta į planuojamą 110 kV transformatorinę pastotę (žemės sklype kad. Nr. 4640/0007:564, adresu Jonavos r. sav., Žeimių sen., Martyniškio k. 20A) pagal elektros tinklų operatoriaus išduotas prijungimo sąlygas. Kabelinių elektros linijų tiesimui per privačius žemės sklypus bus gauti rašytiniai žemės savininkų sutikimai. Privažiavimui prie planuojamo vėjo elektrinių parko teritorijos bus naudojamas esamas kelių tinklas: teritoriją kerta krašto kelias Nr. 232 Kaunas-Žeimiai-Šėta bei vietinės reikšmes keliai. Esami lauko keliai, vedantys iki vėjo elektrinių įrengimui

planuojamų žemės sklypų ir transformatorinės pastotės sklypo, ir kurie bus naudojami vėjo elektrinių įrengimui ir aptarnavimui, pagal poreikį bus sustiprinti. Nuo esamų kelių iki vėjo elektrinių įrengimo aikštelių bus nutiesti reikalingi privažiavimo keliai. Analizuojamuose žemės sklypuose yra įrengtos valstybei priklausančios melioracijos sistemos. Esant poreikiui, vėjo elektrinių statybos metu melioracijos įrenginiai bus perkeliami, nepažeidžiant jų sistemos.

PŪV metu nenumatoma naudoti pavojingų cheminių medžiagų ar preparatų, radioaktyvių medžiagų, pavojingų ar nepavojingų atliekų.

Derlingas dirvožemio sluoksnis bus nustumtas į kaupus, sandėliuojamas ir baigus statybos bei įrengimo darbus panaudotas teritorijos formavimui.

Vėjo elektrinių parko statybos metu, įrengiant aptarnavimo aikšteles, montuojant pamatus gali susidaryti nedideli kiekiai statybinių atliekų. Visos darbų metu susidarančios statybinės atliekos rūšiuojamos ir saugomos konteineriuose iki jų išvežimo ir perdavimo atliekų tvarkytojams. Visos susidariusios atliekos tvarkomos vadovaujantis atliekų tvarkymą reglamentuojančių teisės aktų nuostatomis.

Triukšmo sklaidos modeliavimas atliktas WindPRO programa (versija 3.3.294), kai vienu metu veikia visos 4 planuojamos vėjo elektrinės. GE 4.X/5.X nominalus triukšmo lygis pagal gamintojo pateikiamą techninę charakteristiką yra 106 dBA, tačiau siekiant užtikrinti sukeliamo triukšmo lygio atitikimą teisės aktų nuostatoms, pasirenkama vėjo elektrinės modelio modifikacija su sumažintu triukšmo lygiu, t. y. 104 dBA. Pagal triukšmo sklaidos modeliavimo rezultatus 45 dBA triukšmo lygio izolinijos susiformuoja apie 150 – 205 m atstumu nuo vėjo elektrinių. Pagal triukšmo sklaidos modeliavimo rezultatus nustatyta, kad vėjo elektrinių sukeliamas triukšmo lygis (su fonu) gyvenamoje aplinkoje (40 m atstumu nuo gyvenamojo pastato arba ties gyvenamojo pastato žemės sklypo riba) gali siekti 40,3 – 42,1 dBA.

Atliktas suminis triukšmo sklaidos modeliavimas su UAB „Potentia Industriae“ suplanuotomis 15 vėjo elektrinių. Pagal triukšmo sklaidos modeliavimo rezultatus nustatyta, kad vėjo elektrinių sukeliamas triukšmo lygis (su fonu) gyvenamoje aplinkoje (40 m atstumu nuo gyvenamojo pastato arba ties gyvenamojo pastato žemės sklypo riba) gali siekti 40,4 – 43,8 dBA.

Šešėliavimo artimiausioje gyvenamojoje aplinkoje įvertinimui atliktas modeliavimas programa WindPRO programa. Atliktas planuojamų vėjo elektrinių šešėliavimo sklaidos modeliavimas parodė, kad artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:00 val./m iki 18:26 val./m. ir neviršys 30 val./metus.

Atliktas suminis šešėliavimo sklaidos modeliavimas su UAB „Potentia Industriae“ suplanuotomis 15 vėjo elektrinių parodė, kad artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:00 val./m iki 25:36 val./m. ir neviršys 30 val./metus.

Atliktas planuojamo vėjo elektrinių parko vizualinio poveikio vertinimas, t. y. matomumas galimos vizualinės taršos požiūriu, pasirenkant tokius kraštovaizdžio apžvalgos objektus, kuriose stebėtojų (bendrąja prasme) tankis paprastai būna didžiausias ir/arba kurių estetinis/rekreacinis potencialas yra didžiausias. Šiuo aspektu buvo pasirinkti 9 kraštovaizdžio apžvalgos objektai (piliakalniai – Stašaičių, Normainių, Žeimių, Paberžės, Gudžionių, Lokėnėlių, Laukagalių, Stašėnų, Batėgalos). Vertinant PŪV galimą poveikį kraštovaizdžiui yra atsižvelgiama į gretimybėje jau suplanuotas ūkines veiklas (suplanuotas 15 vėjo elektrinių parkas). Nustatyta abiejų vėjo elektrinių parkų suminė vizualinio dominavimo zona. Žeimių piliakalnis patenka į jau suplanuoto vėjo elektrinių parko vizualinio dominavimo zoną. Įgyvendinus PŪV atsirasiančios vertikalios dominatės kraštovaizdyje nebus naujos, o tik papildančios jau esamas, t. y. suplanuoto 15 vėjo elektrinių parko sukuriamas dominantes.

Kadangi vėjo elektrinių generatoriai sumontuojami 151 m bokšto viršuje, įžemintose metalinėse gondolose, elektrinio lauko stipris, kuris kinta pagal kubinę atstumo priklausomybę, neturės poveikio gyvenamajai aplinkai, nes neviršys leistinos normos – 1 kV/m ir nesieks gyvenamosios ir visuomeninės paskirties pastatų patalpose reglamentuojamų verčių – 0,5 kV/m.

6. Priemonės numatomam reikšmingam neigiamam poveikiui aplinkai išvengti arba užkirsti jam kelią ir jų įgyvendinimo grafikas.

6.1. Analizuojamuose žemės sklypuose yra įrengtos valstybei priklausančios melioracijos sistemos. Esant poreikiui, vėjo elektrinių statybos metu melioracijos įrenginiai bus perkeliami, nepažeidžiant jų sistemos.

6.2. Derlingas dirvožemio sluoksnis bus nustumtas į kaupus, sandėliuojamas ir baigus statybos bei įrengimo darbus panaudotas teritorijos formavimui.

6.3. Vėjo elektrinių pajungimo kabelių linijų trasos parinktos taip, kad nebūtų vykdomi miško ar kitų želdinių kirtimai. Vėjo elektrinių bokštų statybos vietos, vidinių privažiavimo kelių trasos parinktos išsaugant teritorijoje esančius laukų miškelius, želdinių grupes bei teritorijoje augančius pavienius medžius.

6.4. Vėjo elektrinių parko įrengimo darbus numatoma vykdyti tik dienos metu ir tik darbo dienomis.

6.5. GE 4.X/5.X nominalus triukšmo lygis pagal gamintojo pateikiamą techninę charakteristiką yra 106 dBA, tačiau siekiant užtikrinti sukeliamo triukšmo lygio atitikimą teisės aktų nuostatoms, pasirenkama vėjo elektrinės modelio modifikacija su sumažintu triukšmo lygiu, t. y. 104 dBA.

6.6. PŪV yra parengta ir suderinta paukščių ir šikšnosparnių monitoringo programa, stebėjimai pradėti vykdyti. Konkrečios poveikio mažinimo priemonės bus parenkamos individuliai kiekvienu atveju pagal tyrimų metu identifikuotą poveikį.

6.7. Stebėsenos metu nustačius reikšmingą vėjo elektrinių poveikį bus taikomos efektyvios poveikio mažinimo ar kompensacinės priemonės, tokios kaip: vėjo elektrinių stabdymas intensyvaus paukščių skraidymo valandomis ar vėjo elektrinių startinio vėjo greičio didinimas intensyvios šikšnosparnių migracijos valandomis, atbaidymas specialiomis priemonėmis (ultragarsiniai baidymo prietaisai, vienos iš menčių dažymas juoda spalva), teritorijos priežiūros darbai, veisimosi, mitybos buveinių įrengimas, dirbtinių perėjimo vietų įrengimas, kitų gamtosauginių projektų rėmimas.

6.8. Numatoma vykdyti ne mažiau kaip vienerių metų trukmės paukščių ir šikšnosparnių stebėjimus analizuojamoje teritorijoje iki vėjo elektrinių veikimo pradžios. Ne mažiau kaip pirmus tris metus numatoma vykdyti paukščių ir šikšnosparnių stebėjimus (perskridimų/migracijos apskaitas, perinčių paukščių ir sankaupas sudarančių paukščių apskaitas, šikšnosparnių perskridimų intensyvumą) pagal patvirtintą paukščių ir šikšnosparnių monitoringo programą. Vėjo elektrinių eksploatacijos laikotarpiu bus vykdomas žuvusių paukščių ir šikšnosparnių monitoringas pagal patvirtintą programą.

6.9. Numatoma galimybė prisidėti prie biologinės įvairovės didinimo aplinkinėse teritorijose, paruošiant atskiras programas plėšriųjų paukščių ir šikšnosparnių veisimosi, dienojimo sąlygų gerinimui.

6.10. Vėjo elektrinių įrengimas numatomas už paviršinių vandens telkinių pakrančių apsaugos juostų ribų.

6.11. Vėjo elektrinės bus dažomos šviesiomis spalvomis, speciali dažų sudėtis leidžia išvengti konstrukcijų blizgėjimo ir atspindžių susidarymo.

6.12. Vykdomos veiklos metu paaiškėjus, kad daromas didesnis poveikis aplinkai už atrankos informacijoje pateiktus arba teisės aktuose nustatytus rodiklius, veiklos vykdytojas privalės nedelsiant taikyti papildomas poveikį aplinkai mažinančias priemones arba mažinti veiklos apimtis/nutraukti veiklą.

6.13. Veiklos vykdytojas visais atvejais privalės laikytis visų aktualių veiklą reglamentuojančių teisės aktų reikalavimų, keičiantis teisiniam reglamentavimui atitinkamai keisti veiklos rodiklius.

7. Motyvai, kuriais remtasi priimant atrankos išvadą.

7.1. PŪV teritorija nepatenka į draustinių, rezervatų, Europos ekologinio tinklo „Natura 2000“ ar kitas saugomas teritorijas. Artimiausia saugoma „Natura 2000“ PAST teritorija – Labūnavos miškas – nuo analizuojamos teritorijos yra nutolusi apie 9,7 km atstumu, vakarų kryptimi.

7.2. Vadovaujantis Bendrojo plano ir Specialiojo plano sprendiniais, planuojamos vėjo elektrinės patenka į vėjo elektrinių jėgainių parkų galimos plėtros teritorijų zoną Nr. C1. Pagal Bendrojo plano sprendinius vėjo elektrinės nepatenka į gamtinio karkaso teritoriją.

7.3. Atliktas planuojamo vėjo elektrinių parko vizualinio poveikio vertinimas, t. y. matomumas galimos vizualinės taršos požiūriu, pasirenkant tokius kraštovaizdžio apžvalgos objektus, kuriose stebėtojų (bendrąja prasme) tankis paprastai būna didžiausias ir/arba kurių estetinis/rekreacinis potencialas yra didžiausias. Šiuo aspektu buvo pasirinkti 9 kraštovaizdžio apžvalgos objektai (piliakalniai – Stašaičių, Normainių, Žeimių, Paberžės, Gudžionių, Lokėnėlių, Laukagalių, Stašėnų, Batėgalos). Vertinant PŪV galimą poveikį kraštovaizdžiui yra atsižvelgiama į gretimybėje jau suplanuotas ūkines veiklas (suplanuotas 15 vėjo elektrinių parkas). Nustatyta abiejų vėjo elektrinių parkų suminė vizualinio dominavimo zona. Žeimių piliakalnis patenka į jau suplanuoto vėjo elektrinių parko vizualinio dominavimo zoną. Įgyvendinus PŪV atsirasiančios vertikalios dominatės kraštovaizdyje nebus naujos, o tik papildančios jau esamas, t. y. suplanuoto 15 vėjo elektrinių parko sukuriamas dominantes.

7.4. Triukšmo sklaidos modeliavimas atliekamas WindPRO programa (versija 3.3.294). Pagal pateiktus triukšmo sklaidos modeliavimo rezultatus triukšmo lygiai (įvertinus PŪV bei suminį su greta suplanuotomis vėjo elektrinėmis bei su fonu) artimiausioje gyvenamojoje aplinkoje gali siekti nuo 40,3 dBA iki 43,8 dBA ir neviršys Lietuvos higienos normoje HN 33:2011 „Triukšmo ribiniai dydžiai gyvenamuosiuose ir visuomeninės paskirties pastatuose bei jų aplinkoje“, patvirtintoje Lietuvos Respublikos sveikatos apsaugos ministro 2011 m. birželio 13 d. įsakymu Nr. V-604 „Dėl Lietuvos higienos normos HN 33:2011 „Triukšmo ribiniai dydžiai gyvenamuosiuose ir visuomeninės paskirties pastatuose bei jų aplinkoje“ patvirtinimo“, reglamentuojamų triukšmo ribinių dydžių.

7.5. Šešėliavimo artimiausioje gyvenamojoje aplinkoje įvertinimui atliktas modeliavimas programa WindPRO programa. Atliktas planuojamų vėjo elektrinių šešėliavimo sklaidos modeliavimas parodė, kad artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:00 val./m iki 18:26 val./m. ir neviršys 30 val./metus. Atliktas suminis šešėliavimo sklaidos modeliavimas su UAB „Potentia Industriae“ suplanuotomis 15 vėjo elektrinėmis parodė, kad artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:00 val./m iki 25:36 val./m. ir neviršys 30 val./metus.

7.6. PŪV teritorijoje nėra aptikta jokių Europos Bendrijos svarbos natūralių buveinių, vertingų saugomų gyvūnų ar augalų rūšių, jų augaviečių ar radaviečių, todėl neigiamas PŪV poveikis šiems aplinkos komponentams nenumatomas.

7.7. Visos statybos darbų metu susidarančios statybinės atliekos bus rūšiuojamos ir saugomos konteineriuose iki jų išvežimo ir perdavimo atliekų tvarkytojams. Visos susidariusios atliekos tvarkomos vadovaujantis atliekų tvarkymą reglamentuojančių teisės aktų nuostatomis.

7.8. PŪV metu nenumatoma naudoti pavojingų cheminių medžiagų ar preparatų, radioaktyvių medžiagų, pavojingų ar nepavojingų atliekų.

7.9. Kadangi vėjo elektrinių generatoriai sumontuojami 151 m bokšto viršuje, įžemintose metalinėse gondolose, elektrinio lauko stipris, kuris kinta pagal kubinę atstumo priklausomybę, neturės poveikio gyvenamajai aplinkai, nes neviršys leistinos normos – 1 kV/m ir nesieks gyvenamosios ir visuomeninės paskirties pastatų patalpose reglamentuojamų verčių – 0,5 kV/m.

Poveikio aplinkai vertinimo subjektai: Jonavos rajono savivaldybės administracija pagal PAV įstatymo 6 straipsnio 5 dalies 5 punktą, atsakinga už PŪV poveikio aplinkai vertinimo ir šios veiklos galimo poveikio aplinkai, atsižvelgiant į patvirtintų ir galiojančių teritorijų planavimo

dokumentų sprendinius bei galimybes pagal teisės aktų reikalavimus juos keisti ir į pagal įstatymus vykdomo savivaldybės aplinkos stebėsenos (monitoringo) duomenis, išvados, kad PŪV reikalinga atlikti poveikio aplinkai vertinimą nepateikė. Nacionalinio visuomenės sveikatos centro prie Sveikatos apsaugos ministerijos Kauno departamentas pagal PAV įstatymo 6 straipsnio 5 dalies 1 punktą, atsakingas už PŪV veiksnių, darančių įtaką visuomenės sveikatai, galimo poveikio visuomenės sveikatai vertinimą, 2021-02-01 raštu Nr. (2-21 14.3.5 Mr)2-26383 vadovaudamasis informacija atrankai, pagal kurią priimama ši išvada, siūlo priimta atrankos išvadą kad PŪV poveikio aplinkai vertinimas neprivalomas. Priešgaisrinės apsaugos ir gelbėjimo departamento prie Vidaus reikalų ministerijos Kauno priešgaisrinė gelbėjimo valdyba pagal PAV įstatymo 6 straipsnio 5 dalies 3 punktą, atsakinga už PŪV vykdymo metu galimų įvykių, ekstremaliųjų įvykių, ekstremaliųjų situacijų, numatomų priemonių joms išvengti ar sušvelninti ir padariniams likviduoti, išvados, kad PŪV reikalinga atlikti poveikio aplinkai vertinimą nepateikė. Kultūros paveldo departamento prie Kultūros ministerijos Kauno skyrius pagal PAV įstatymo 6 straipsnio 5 dalies 2 punktą, atsakingas už galimą PŪV poveikį nekilnojamajam kultūros paveldui, 2021-01-26 raštu Nr. (9.38-K)2K-215 pateikė išvadą, kad poveikio aplinkai vertinimas neprivalomas.

Agentūra, pasibaigus pasiūlymų teikimo terminui dėl PŪV poveikio aplinkai vertinimo, pastabų ir pasiūlymų iš suinteresuotos visuomenės negavo.

8. Priimta atrankos išvada.

Vadovaujantis PAV įstatymo 7 straipsnio 7 dalimi ir atsižvelgus į išdėstytus motyvus priimama atrankos išvada: UAB „Geotyrimų centras“ PŪV – vėjo elektrinių (keturių) parko įrengimo Jonavos r. sav., Žeimių sen., Martyniškio ir Palankesių k. poveikio aplinkai vertinimas neprivalomas.

Atrankos išvada yra priimta pagal pateiktą atrankos informaciją, kuri yra patalpinta Agentūros tinklalapyje *www.gamta.lt* nuorodoje *Poveikio aplinkai vertinimas (PAV) > 2021 metai > 3. Atrankos dėl poveikio aplinkai vertinimo informacija 2021 m. > Kauno regionas* ir yra atrankos išvados sudedamoji dalis.

9. Nurodoma atrankos išvados apskundimo tvarka.

Šį sprendimą Jūs turite teisę apskųsti Lietuvos administracinių ginčų komisijai (Vilniaus g. 27, 01402 Vilnius) Lietuvos Respublikos ikiteisminio administracinių ginčų nagrinėjimo tvarkos įstatymo nustatyta tvarka arba Vilniaus apygardos administraciniam teismui (Žygimantų g. 2, 01102 Vilnius) Lietuvos Respublikos administracinių bylų teisenos įstatymo nustatyta tvarka per vieną mėnesį nuo jo paskelbimo arba įteikimo dienos.

APLINKOS APSAUGOS AGENTŪROS 2021-02- RAŠTO NR. (30.2)-A4E-ADRESATŲ SĄRAŠAS

Jonavos rajono savivaldybės administracijai
Siunčiama per e. pristatymas sistemą

Nacionaliniam visuomenės sveikatos centro prie Sveikatos apsaugos ministerijos Kauno departamentui
Siunčiama per e. pristatymas sistemą

Priešgaisrinės apsaugos ir gelbėjimo departamento prie Vidaus reikalų ministerijos Kauno priešgaisrinei gelbėjimo valdybai
Siunčiama per e. pristatymas sistemą

Kultūros paveldo departamento prie Kultūros ministerijos Kauno skyriui
El. p. kaunas@kpd.lt

Kopija
Aplinkos apsaugos departamentui prie Aplinkos ministerijos
Siunčiama per e. pristatymas sistemą

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Aplinkos apsaugos agentūra, A. Juozapavičiaus g. 9, LT-09311 Vilnius
Dokumento pavadinimas (antraštė)	ATRANKOS IŠVADA DĖL VĖJO ELEKTRINIŲ (KETURIŲ) PARKO ĮRENGIMO JONAVOS R. SAV., ŽEIMIŲ SEN., MARTYNIŠKIO IR PALANKESIŲ K.POVEIKIO APLINKAI VERTINIMO
Dokumento registracijos data ir numeris	2021-02-22 Nr. (30.2)-A4E-2047
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0, GEDOC
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Parašo sukūrimo data ir laikas	2021-02-19 16:42:26
Parašo formatas	Parašas, pažymėtas laiko žyma
Laiko žymoje nurodytas laikas	2021-02-19 16:42:38
Informacija apie sertifikavimo paslaugų teikėją	ADIC CA-B
Sertifikato galiojimo laikas	2020-12-16 - 2023-12-16
Parašo paskirtis	Registravimas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Parašo sukūrimo data ir laikas	2021-02-22 10:21:34
Parašo formatas	Trumpalaikis skaitmeninis parašas, kuriame taip pat saugoma sertifikato informacija
Laiko žymoje nurodytas laikas	
Informacija apie sertifikavimo paslaugų teikėją	RCSC IssuingCA
Sertifikato galiojimo laikas	2021-01-07 - 2023-01-07
Pagrindinio dokumento priedų skaičius	0
Pagrindinio dokumento pridedamų dokumentų skaičius	0
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	Elektroninė dokumentų valdymo sistema VDVIS, versija v. 3.04.02
El. dokumento įvykius aprašantys metaduomenys	
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	El. dokumentas atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja. Tikrinimo data: 2021-02-23 10:01:56
Elektroninio dokumento nuorašo atspausdinimo data ir ją atspausdinęs darbuotojas	
Paieškos nuoroda	

APLINKOS APSAUGOS AGENTŪRA

Biudžetinė įstaiga, A. Juozapavičiaus g. 9, LT-09311 Vilnius, tel.8 70662008, el.p. aaa@gamta.lt, https://aaa.lrv.lt/
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188784898

Į 2022-04-14 Nr. S22-053

Adresatams pagal sąrašą

ATRANKOS IŠVADA DĖL VĖJO ELEKTRINIŲ PARKO ĮRENGIMO JONAVOS R. SAV. POVEIKIO APLINKAI VERTINIMO

2022-05- Nr. (30.2)-A4E-

1. Planuojamos ūkinės veiklos organizatorius (fizinio asmens vardas, pavardė; juridinio asmens pavadinimas, adresas, telefono numeris, el. pašto adresas).

UAB „Taupi energija“, Kauno g. 4-6, LT-55176 Jonava, tel. +370 656 75169, el. p. arvisk777@gmail.com

2. Poveikio aplinkai vertinimo dokumentų rengėjas (fizinio asmens vardas, pavardė; juridinio asmens pavadinimas, adresas, telefono numeris, el. pašto adresas).

VšĮ Pajūrio tyrimų ir planavimo institutas (PTPI), V. Berbomo g. 10-206, LT-92221, Klaipėda, tel. +370 46 398848, faksas +370 46 390818, el. p. info@corpi.lt.

3. Planuojamos ūkinės veiklos atrankos dėl poveikio aplinkai vertinimo atlikimo teisinis pagrindas pagal Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 7 straipsnio 2 dalį, nurodant šio įstatymo 2 priedo punktą (-us).

Atranka atliekama, vadovaujantis Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo (toliau – PAV įstatymas) 2 priedo 3.8. punkto 3.8.1 papunkčiu – kai įrengiamos 3 vėjo elektrinės, kurių bent vienos aukštis 50 m (matuojant iki aukščiausio konstrukcijų taško) ar daugiau.

4. Planuojamos ūkinės veiklos vieta.

Planuojamos ūkinės veiklos (toliau – PŪV) vieta yra žemės sklypuose kadastriniais Nr. 4618/0006:155, Nr. 4618/0006:185, Nr. 4618/0006:30, Nr. 4618/0006:10, Nr. 4618/0004:5, Nr. 4618/0004:32, Nr. 4618/0004:129, Nr. 4618/0004:78, Nr. 4618/0004:38, Nr. 4618/0006:192, Nr. 4618/0006:139, Nr. 4618/0006:149, Nr. 4618/0006:165, Nr. 4618/0002:23, Nr. 4640/0007:512, Nr. 4640/0007:105, Nr. 4618/0002:24, Nr. 4615/0001:303, Nr. 4615/0001:301, Nr. 4615/0001:259, Nr. 4640/0007:438, esančiuose Vaivadiškių, Knipų, Širvių, Madlinavos, Juodžių, Ražuotinės, Narauninkiškių k., Bukonių sen., Martyniškio, Palankesių k., Žeimių sen., ir Vanagiškių k., Kulvos sen., Jonavos r. sav. Vėjo elektrinių įrengimui žemės sklypai bus padalinami, atidalintos žemės sklypo dalies, kurioje bus įrengiamos vėjo elektrinės paskirtis bus keičiama į „Kita“.

Vadovaujantis Bendrojo plano[1] ir Specialiojo plano[2] sprendiniais, planuojamos vėjo elektrinės patenka į vėjo elektrinių statybos teritoriją. Pagal Bendrojo plano sprendinius vėjo elektrinės nepatenka į gamtinio karkaso teritoriją.

[1] Jonavos rajono savivaldybės teritorijos bendrojo plano pakeitimas, patvirtintas 2017-12-21 Jonavos rajono savivaldybės Tarybos sprendimu Nr. 1TS-295 (toliau – Bendrasis planas).

[2] Atsinaujinančių energijos išteklių naudojimo plėtros Jonavos rajono savivaldybės teritorijoje specialusis planas, patvirtintas Jonavos rajono savivaldybės Tarybos 2013-10-31 sprendimu Nr. 1TS-322 (toliau – Specialusis planas).

PŪV artimiausios urbanizuotos teritorijos yra Žeimių miestelis bei Vanagiškių, Dargužių, Vaivadiškių kaimai. Artimiausias visuomeninės paskirties objektas – VšĮ Jonavos pirminės sveikatos priežiūros centro filialas Žeimių ambulatorija nutolusi 2,3 km atstumu nuo PŪV. Artimiausios sodybos yra išsidėsčiusios 580 – 1205 m atstumu nuo PŪV.

Remiantis Žemės gelmių registro (ŽGR) duomenimis, PŪV teritorijoje nėra naudingų iškasenų telkinių. Artimiausias naudingųjų išteklių telkinys yra Ragožiai (išteklių rūšis – molis, prognoziniai ištekliai, identifikavimo Nr.1473), nutolęs apie 1,4 km atstumu į pietus nuo artimiausios planuojamos vėjo elektrinės.

Remiantis geologijos informacijos sistema GEOLIS, PŪV teritorijoje ir gretimuose žemės sklypuose aktyvių geologinių procesų ar reiškinių (pvz., eroziją, sufoziją, karstus, nuošliaužas) nepastebėta. Artimiausia vietovė, kurioje registruotas geologinis reiškinys – nuošliauža – yra už 5 km į pietryčius nuo PŪV.

Analizuojamoje teritorijoje registruotų geotopų nėra. Atstumas iki artimiausio geotopo – akmuo „Vilniūnas“ – 12 km į pietvakarius nuo PŪV.

Vadovaujantis Nacionalinio kraštovaizdžio tvarkymo plano (toliau – Tvarkymo planas), patvirtinto Lietuvos Respublikos aplinkos ministro 2015-10-02 įsakymu Nr. D1-703 „Dėl nacionalinio kraštovaizdžio tvarkymo plano“ kraštovaizdžio vizualinio estetinio potencialo brėžiniu, vietovė patenka į V1H2-c ir į V0H2-d indeksais pažymėtus kraštovaizdžio vizualinės struktūros tipus. Šio vizualinio struktūros tipo kraštovaizdžiuose vyrauja silpna vertikalioji sąskaida (V1) (banguotasis bei lėkštašlaičių slėnių kraštovaizdis su dviejų lygmenų videotopų kompleksais) ir neraiški vertikalioji sąskaida (V0) (lyguminis kraštovaizdis su vieno lygmens videotopais) su vyraujančių pusiau atvirų didžiąja dalimi apžvelgiamų erdvių kraštovaizdžiu (H2). Kraštovaizdžio erdvinė struktūra be raiškų vertikalių ir horizontalių dominančių (d) ir kraštovaizdžio erdvinėje struktūroje raiškios tik vertikalios dominatės (c). Pagal Vertingiausių Lietuvos kraštovaizdžio panoramų apžvalgos taškų žemėlapį artimiausi kraštovaizdžio apžvalgos taškai nutolę 24–30,7 km atstumu nuo PŪV. Pagal atliktą poveikio kraštovaizdžiui vertinimą nustatyta, kad įrengus 250 m bendro aukščio vėjo elektrinės vertikalus matymo kampas galėtų viršyti 2,50º laipsnio ribą apie sudaro 5,7 km atstumu nuo analizuojamų vėjo elektrinių. Pagal Vertingiausių Lietuvos kraštovaizdžio panoramų apžvalgos taškų žemėlapį tokiu atstumu kraštovaizdžio apžvalgos taškų nėra, vertikalus matymo kampas nesiekia 2,8 laipsnio. Pagal atliktą vertinimą PŪV nesukels reikšmingo kraštovaizdžio vizualiniam estetiniam potencialui. Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos 2022-03-17 raštu Nr. (4)-V3-403 pateikė nuomonę, kad nuo vertingiausių Lietuvos kraštovaizdžio panoramų apžvalgos taškų planuojamos vėjo elektrinės nutolusios daugiau kaip 20 km atstumu, todėl poveikis saugomų teritorijų kraštovaizdžiui nėra tikėtinas. PŪV vieta nepatenka į Tvarkymo plane išskirtus ypač saugomo šalies vizualinio estetinio potencialo arealus ar kraštovaizdžio tipus, kuriuose būtina taikyti griežčiausius vizualinės apsaugos reikalavimus ir kraštovaizdžio kokybė negali būti bloginama.

PŪV teritorija nepatenka į draustinių, rezervatų, „Natura 2000“ ar kitas saugomų teritorijas. Artimiausia saugoma „Natura 2000“ PAST teritorija – Labūnavos miškas – nuo analizuojamos teritorijos yra nutolusi apie 6 km atstumu. Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos 2022-03-17 raštu Nr. (4)-V3-403 pateikė nuomonę, kad artimiausia „Natura 2000“ paukščių apsaugai svarbi teritorija Labūnavos miškas (LTKEDB001), kurioje saugomi mažieji ereliai rėksniai, nuo PŪV nutolusi daugiau kaip 6 km atstumu. Pagal įprastus mažojo erelio rėksnio medžiojimo vietų atstumus nuo lizdaviečių toks atstumas laikytinas saugiu. Atsižvelgiant į nurodytas aplinkybes PŪV nevertintina, kaip planuojama „Natura 2000“ artimoje aplinkoje ir dėl to nereikia nustatyti galimo poveikio „Natura 2000“ teritorijoms reikšmingumo.

Žemės sklypuose, kurie analizuojami vėjo elektrinių įrengimui, miško naudmenų nėra. Pagal Lietuvos Respublikos miškų valstybės kadastro duomenis, artimiausias miško plotas nuo PŪV nutolęs 27–120 m atstumas. Vėjo elektrinių parko įrengimui miško kirtimo darbai nenumatomi.

Vadovaujantis Lietuvos ornitologų draugijos su partneriais (Pajūrio tyrimų ir planavimo

institutu ir Lietuvos energetikos institutu) nuo 2015 m. vasario iki 2017 kovo mėn. įgyvendinto projekto „Vėjo energetikos plėtra ir biologinei įvairovei svarbios teritorijos (VENBIS)“ duomenimis, PŪV patenka į vidutiniškai jautrias, mažai jautrias teritorijas arba patenka į teritorijas, kuriose nepakanka duomenų jautrumui nustatyti paukščių, šikšnosparnių atžvilgiu.

Artimiausias paviršinio vandens telkinys yra Barupės upė, nuo PŪV nutolusi 99 m. Vėjo elektrinių įrengimas numatomas už paviršinių vandens telkinių pakrančių apsaugos juostų ribų.

PŪV žemės sklypuose registruotų kultūros paveldo vertybių nėra. Artimiausia planuojamai teritorijai kultūros vertybė – Palankesių dvaro sodyba – nuo PŪV teritorijos nutolusi apie 1,3 km atstumu.

5. Trumpas planuojamos ūkinės veiklos aprašymas.

Planuojama įrengti 24 vėjo elektrines. Analizuojamų vėjo elektrinių modelių techniniai parametrai: nominali galia 5,7 – 6,6 MW, bokšto aukštis – 145 – 167 m, rotoriaus skersmuo – 163 - 170 m, bendras aukštis – iki 250 m. Projekto įgyvendinimo metu gali būti pasirinkti kiti tuo metu rinkoje prieinami analogiški, panašių charakteristikų skirtingų gamintojų vėjo elektrinių modeliai.

Į statybos vietą atvežami gamykliniai vėjo elektrinių elementai. Ant įrengtų pamatų montuojamas vėjo elektrinės bokštas, tvirtinamas rotorius ir mentės.

Planuojamų vėjo elektrinių generuojama elektros energija požeminiais kabeliais bus pajungta į planuojamą vieną 330 kV arba dvi 175 kV įtampos transformatorines pastotes pagal elektros tinklų operatoriaus išduotas prijungimo sąlygas. Kabelinių elektros linijų tiesimui per privačius žemės sklypus bus reikalinga gauti rašytinius žemės savininkų sutikimus. Vėjo elektrinių statybos ir eksploatacijos metu bus naudojami esami keliai, nuo kurių iki planuojamų vėjo elektrinių projektuojami ir įrengiami nauji žvyro dangos vietinės reikšmės privažiavimo keliai. Esami keliai pagal poreikį bus sustiprinti, t. y. lauko keliai greideriuojami, užlyginamos esamos duobės, atnaujinama žvyro danga, vietinės reikšmės keliai periodiškai prižiūrimi. Statybos darbų metu derlingas dirvožemio sluoksnis bus nustumtas į kaupus, sandėliuojamas ir baigus statybos bei įrengimo darbus panaudotas teritorijos formavimui.

PŪV metu nenumatoma naudoti pavojingų cheminių medžiagų ar preparatų, radioaktyvių medžiagų, pavojingų ar nepavojingų atliekų.

Analizuojamuose žemės sklypuose yra įrengtos valstybei priklausančios melioracijos sistemos. Esant poreikiui, vėjo elektrinių statybos metu melioracijos įrenginiai bus perkeliami, nepažeidžiant jų naudojimo sistemos.

Vėjo elektrinių parko statybos metu, įrengiant aptarnavimo aikšteles, montuojant pamatus gali susidaryti nedideli kiekiai statybinių atliekų. Visos darbų metu susidarančios statybinės atliekos rūšiuojamos ir saugomos konteineriuose, iki jų išvežimo ir perdavimo atliekų tvarkytojams. Visos susidariusios atliekos tvarkomos vadovaujantis atliekų tvarkymą reglamentuojančių teisės aktų nuostatomis.

Triukšmo sklaidos modeliavimas atliktas WindPRO programa, kuomet vienu metu veikia visos 24 planuojamos vėjo elektrinės. Pagal modeliavimo rezultatus 45 dBA triukšmo lygio izolinijos susiformuoja apie 228–440 m atstumu nuo vėjo elektrinių. Pagal triukšmo sklaidos modeliavimo rezultatus nustatyta, kad vėjo elektrinių sukeliamas triukšmo lygis gyvenamoje aplinkoje (40 m atstumu nuo gyvenamojo pastato arba ties gyvenamojo pastato žemės sklypo riba) gali siekti 33,3–44,6 dBA. Pagal atliktus suminius triukšmo sklaidos modeliavimo rezultatus nustatyta, kad vėjo elektrinių sukeliamas triukšmo lygis gyvenamoje aplinkoje (40 m atstumu nuo gyvenamojo pastato arba ties gyvenamojo pastato žemės sklypo riba) gali siekti 35,8 –44,6 dBA.

Šešėliavimo artimiausioje gyvenamojoje aplinkoje įvertinimui atliktas modeliavimas programa WindPRO programa. Atliktas planuojamų vėjo elektrinių šešėliavimo sklaidos modeliavimas parodė, kad artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:00 val./m iki 30:38 val./m., pritaikius šešėliavimo mažinančią priemonę (šešėlio stabdymo – *angl. k.* shadow shut-down) artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:00 val./m iki 23:28 val./m ir neviršys 30 val./metus.

Atliktas suminis šešėliavimo sklaidos modeliavimas modeliavimas parodė, kad artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:45 val./m iki 42:31 val./m., pritaikius šešėliavimo mažinančią priemonę (šešėlio stabdymo – *angl. k.* shadow shut-down) artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:45 val./m iki 26:44 val./m ir neviršys 30 val./metus.

6. Priemonės numatomam reikšmingam neigiamam poveikiui aplinkai išvengti arba užkirsti jam kelią ir jų įgyvendinimo grafikas.

6.1. Analizuojamuose žemės sklypuose yra įrengtos valstybei priklausančios melioracijos sistemos. Esant poreikiui, vėjo elektrinių statybos metu melioracijos įrenginiai bus perkeliami, nepažeidžiant jų sistemos.

6.2. Derlingas dirvožemio sluoksnis bus nustumtas į kaupus, sandėliuojamas ir baigus statybos bei įrengimo darbus panaudotas teritorijos formavimui.

6.3. Vėjo elektrinių pajungimo kabelių linijų trasos bus parinktos taip, kad nebūtų vykdomi miško kirtimai ar kitų želdinių kirtimai. Vėjo elektrinių bokštų statybos vietos, vidinių privažiavimo kelių trasos bus parinktos išsaugant teritorijoje esančius laukų miškelius, želdinių grupes bei teritorijoje augančius pavienius medžius.

6.4. Siekiant sumažinti poveikį kraštovaizdžiui, vėjo elektrinės bus dažomos šviesiomis spalvomis.

6.5. Vėjo elektrinei VE17 galia bus ribojama iki 6,0 MW. Ribojamas vėjo elektrinės VE10 skleidžiamas triukšmo lygis.

6.6. Numatoma paruošti ir suderinti paukščių ir šikšnosparnių monitoringo programą, tam, kad įvertinti PŪV poveikį migruojantiems, perintiems paukščiams ir besiveisiantiems ir migruojantiems šikšnosparniams.

6.7. Vėjo elektrinėms, nuo kurių iki miško ir paviršinio vandens telkinio yra mažesnis nei 250 m atstumas, siekiant sumažinti galimas šikšnosparnių žūtis (jei toks poveikis bus nustatytas monitoringo metu), numatomas vėjo elektrinių veiklos pradžios minimalaus vėjo greičio didinimas iki 5,5–6 m/s šikšnosparnių veisimosi ir migracijos periodu, taikant šią priemonę nuo saulės nusileidimo iki patekėjimo. Priemonė turi būti patikslinta atlikus monitoringą po kiekviena jautria vėjo elektrine.

6.8. Mažinant galimą neigiamą poveikį plėšriesiems paukščiams numatoma stabdyti vėjo elektrinių darbą 3 dienoms (dienos metu) žemės ūkio darbų metu (šienavimas, arimas, javų kūlimas ir t.t.) balandžio–rugsėjo mėnesiais, jei darbai atliekami gretimoje teritorijoje. Iki 500 m nuo vėjo elektrinių nutolusiose laukuose vėjo elektrinių darbas gali būti stabdomas dienos metu, aktyviausiu plėšriųjų paukščių skraidymo periodu nuo 10:00 iki 16:00 valandos, žemės ūkio darbų metu ir 3 dienas po jų.

6.9. Numatoma prisidėti prie retų ir jautrių vėjo elektrinių poveikiui paukščių rūšių išsaugojimo vykdant jų monitoringą ir stebėseną nuotolinėmis telemetrinėmis priemonėmis. Gretimoje aplinkoje perintiems jautriems poveikiui paukščiams (plėšriesiems paukščiams) planuojama uždėti 4 telemetrinius įrenginius (siųstuvus) ir stebėti jautrių rūšių judėjimą, naudojamas teritorijas prieš statybas ir po vėjo elektrinių statybos darbų. Numatoma surinkti žinių apie kylančių konfliktų dėl vėjo elektrinių veiklos galimus valdymus ir sukauptas žinias pritaikyti praktiškai mažinant poveikį jautrioms vėjo elektrinių poveikiui paukščių rūšims, nustatant vėjo elektrinių stabdymo laikotarpį, pavojingus skrydžio aukščius ir kitų efektyvių paukščių susidūrimo su vėjo elektrinėmis išvengimo priemonių paieškai.

6.10. Vienos iš vėjo elektrinių menčių dažymas juoda spalva gali sumažinti plėšriųjų paukščių žūčių skaičių. Ši priemonė gali būti efektyvi, jei bus nustatytas reikšmingas poveikis plėšriesiems ir sklandantiems paukščiams.

6.11. Numatomas dirbtinių perėjimo ir veisimosi vietų įrengimas. Siekiant pagerinti plėšriųjų paukščių perėjimo sąlygas, numatytas naujų lizdaviečių įrengimas: paprastųjų pelėsakalių – 4 vnt. ant elektros stulpų atramų ar pavienių medžių, mažiesiems ereliams rėksniams – 4 vnt. lizdinių platformų

aplinkiniuose miškuose. Šikšnosparnių dienojimui ir veisimuisi - 18 inkilų iškėlimas. Darbai numatomi atlikti už vėjo elektrinių parko ribų Jonavos ir Kauno r.

6.12. Planuojamas mitybinių buveinių keitimas prie vėjo elektrinių, padarant jas mažiau patrauklias jautrioms vėjo elektrinėms paukščių ar šikšnosparnių rūšims. Natūralių buveinių atkūrimas dirbamuose laukuose toliau nuo vėjo elektrinių, padarant jas patrauklias plėšriesiems paukščiams. Šios priemonės įgyvendinimas būtų galimas tik tokiu atveju, jeigu vėjo elektrinių savininkas turėtų teises į šių žemės sklypų naudojimą.

6.13. Gretimoje aplinkoje mažiausiai 2000 m atstumu nuo planuojamų vėjo elektrinių rekomenduojama atkurti natūralias buveines dirbamos žemės plotuose. Suformuojant natūralias pievas su žemumomis (ar vandens telkiniais) sukuriamos buveinės, tinkamas plėšriųjų paukščių mitybai ir žvirblinių, tilvikinių paukščių veisimuisi ir mitybai, taip kompensuojant vėjo elektrinių užimamos teritorijos praradimo efektą. Mažiausias tikslingas buveinės atkūrimo plotas – 7 ha.

6.14. Kompensacinės priemonės, prisidedant prie jautrių vėjo elektrinių poveikiui rūšių išsaugojimo atkūrimo visoje Lietuvos teritorijoje.

6.15. Numatoma naudoti šešėliavimo mažinančią priemonę (šešėlio stabdymo – *angl. k.* shadow shut-down).

6.16. Siekiant sumažinti galimą kabelių tiesimo per vandens telkinius poveikį aplinkai, kabelio linija per Barupės, Lankesos ir Platumos upes bus tiesiama prastūmimo būdu, t. y. upelių vaga nebus pažeidžiama kasant atviru būdu.

6.17. Vėjo elektrinės statybos vietos parinktos už paviršinių vandens telkinių pakrančių apsaugos juostų ribų.

6.18. Kabelio linijos atkarpos einančios lygiagrečiai paviršinio vandens telkiniams bus tiesiamos atsitraukiant už pakrančių apsaugos juostos ribos.

6.19. Vėjo elektrinių parko įrengimo darbus numatoma vykdyti tik dienos metu ir tik darbo dienomis.

6.20. Esami lauko keliai, kurie bus naudojami VE įrengimui ir aptarnavimui, pagal poreikį bus sustiprinti: greideriuojami, užlyginamos esamos duobės, atnaujinama žvyro danga. Vietinės reikšmės keliai periodiškai prižiūrimi.

6.21. Vykdomos veiklos metu paaiškėjus, kad daromas didesnis poveikis aplinkai už atrankos informacijoje pateiktus arba teisės aktuose nustatytus rodiklius, veiklos vykdytojas privalės nedelsiant taikyti papildomas poveikį aplinkai mažinančias priemones arba mažinti veiklos apimtis/nutraukti veiklą.

6.22. Veiklos vykdytojas visais atvejais privalės laikytis visų aktualių veiklą reglamentuojančių teisės aktų reikalavimų, keičiantis teisiniam reglamentavimui atitinkamai keisti veiklos rodiklius.

7. Motyvai, kuriais remtasi priimant atrankos išvadą.

7.1. PŪV teritorija nepatenka į draustinių, rezervatų, „Natura 2000“ ar kitas saugomas teritorijas. Artimiausia saugoma „Natura 2000“ PAST teritorija – Labūnavos miškas – nuo analizuojamos teritorijos yra nutolusi apie 6 km atstumu. Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos 2022-03-17 raštu Nr. (4)-V3-403 pateikė nuomonę, kad artimiausia „Natura 2000“ paukščių apsaugai svarbi teritorija Labūnavos miškas (LTKEDB001), kurioje saugomi mažieji ereliai rėksniai, nuo PŪV nutolusi daugiau kaip 6 km atstumu. Pagal įprastus mažojo erelio rėksnio medžiojimo vietų atstumus nuo lizdaviečių, toks atstumas laikytinas saugiu. Atsižvelgiant į nurodytas aplinkybes PŪV nevertintina, kaip planuojama „Natura 2000“ artimoje aplinkoje ir dėl to nereikia nustatyti galimo poveikio „Natura 2000“ teritorijoms reikšmingumo.

7.2. Vadovaujantis Bendrojo plano ir Specialiojo plano sprendiniais, planuojamos vėjo elektrinės patenka į vėjo elektrinių statybos teritoriją.

7.3. Vadovaujantis Tvarkymo plano kraštovaizdžio vizualinio estetinio potencialo brėžiniu, vietovė patenka į V1H2-c ir į V0H2-d indeksais pažymėtus kraštovaizdžio vizualinės struktūros tipus. Šio vizualinio struktūros tipo kraštovaizdžiuose vyrauja silpna vertikalioji sąskaida (V1)

(banguotasis bei lėkštašlaičių slėnių kraštovaizdis su dviejų lygmenų videotopų kompleksais) ir neraiški vertikalioji sąskaida (V0) (lyguminis kraštovaizdis su vieno lygmens videotopais) su vyraujančių pusiau atvirų didžiąja dalimi apžvelgiamų erdvių kraštovaizdžiu (H2). Kraštovaizdžio erdvinė struktūra be raiškų vertikalių ir horizontalių dominančių (d) ir kraštovaizdžio erdvinėje struktūroje raiškios tik vertikalios dominatės (c). Pagal Vertingiausių Lietuvos kraštovaizdžio panoramų apžvalgos taškų žemėlapį artimiausi kraštovaizdžio apžvalgos taškai nutolę 24–30,7 km atstumu nuo PŪV. Pagal atliktą poveikio kraštovaizdžiui vertinimą nustatyta, kad įrengus 250 m bendro aukščio vėjo elektrinės vertikalus matymo kampas galėtų viršyti 2,50º laipsnio ribą apie sudaro 5,7 km atstumu nuo analizuojamų vėjo elektrinių. Pagal Vertingiausių Lietuvos kraštovaizdžio panoramų apžvalgos taškų žemėlapį, tokiu atstumu kraštovaizdžio apžvalgos taškų nėra, o vertikalus matymo kampas nesiekia 2,8 laipsnio, todėl PŪV nesukels reikšmingo kraštovaizdžio vizualiniam estetiniam potencialui. Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos 2022-03-17 raštu Nr. (4)-V3-403 pateikė nuomonę, kad nuo vertingiausių Lietuvos kraštovaizdžio panoramų apžvalgos taškų planuojamos vėjo elektrinės nutolusios daugiau kaip 20 km atstumu, todėl poveikis saugomų teritorijų kraštovaizdžiui nėra tikėtinas. PŪV vieta nepatenka į Tvarkymo plane išskirtus ypač saugomo šalies vizualinio estetinio potencialo arealus ar kraštovaizdžio tipus, kuriuose būtina taikyti griežčiausius vizualinės apsaugos reikalavimus ir kraštovaizdžio kokybė negali būti bloginama.

7.4. Triukšmo sklaidos modeliavimas atliktas WindPRO programa. Pagal pateiktus triukšmo sklaidos modeliavimo rezultatus triukšmo lygiai artimiausioje gyvenamojoje aplinkoje gali siekti nuo 33,3–44,6 dBA (suminis 35,8 –44,6 dBA) ir neviršys Lietuvos higienos normoje HN 33:2011 „Triukšmo ribiniai dydžiai gyvenamuosiuose ir visuomeninės paskirties pastatuose bei jų aplinkoje“, patvirtintoje Lietuvos Respublikos sveikatos apsaugos ministro 2011 m. birželio 13 d. įsakymu Nr. V-604 „Dėl Lietuvos higienos normos HN 33:2011 „Triukšmo ribiniai dydžiai gyvenamuosiuose ir visuomeninės paskirties pastatuose bei jų aplinkoje“ patvirtinimo“ (toliau – Higienos norma), reglamentuojamų triukšmo ribinių dydžių.

7.5. Šešėliavimo artimiausioje gyvenamojoje aplinkoje įvertinimui atliktas modeliavimas programa WindPRO programa. Atliktas planuojamų vėjo elektrinių šešėliavimo sklaidos modeliavimas parodė, kad artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:00 val./m iki 30:38 val./m., pritaikius šešėliavimo mažinančią priemonę (šešėlio stabdymo – angl. k. shadow shut-down) artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:00 val./m iki 23:28 val./m ir neviršys 30 val./metus. Atliktas suminis šešėliavimo sklaidos modeliavimas modeliavimas parodė, kad artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:45 val./m iki 42:31 val./m., pritaikius šešėliavimo mažinančią priemonę (šešėlio stabdymo – angl. k. shadow shut-down) artimiausioje gyvenamojoje aplinkoje šešėliavimas gali siekti nuo 0:45 val./m iki 26:44 val./m ir neviršys 30 val./metus.

7.6. Visos darbų metu susidarančios statybinės atliekos rūšiuojamos ir saugomos konteineriuose iki jų išvežimo ir perdavimo atliekų tvarkytojams. Visos susidariusios atliekos tvarkomos vadovaujantis atliekų tvarkymą reglamentuojančių teisės aktų nuostatomis.

7.7. PŪV metu nenumatoma naudoti pavojingų cheminių medžiagų ar preparatų, radioaktyvių medžiagų, pavojingų ar nepavojingų atliekų.

7.8. Vėjo elektrinės bus statomos už paviršinių vandens telkinių pakrančių apsaugos juostų ribų. PŪV bus vykdoma vadovaujantis Specialiųjų žemės naudojimo sąlygų įstatymo nuostatomis.

Poveikio aplinkai vertinimo subjektai: Jonavos rajono savivaldybės administracija pagal PAV įstatymo 6 straipsnio 5 dalies 5 punktą, atsakinga už PŪV poveikio aplinkai vertinimo ir šios veiklos galimo poveikio aplinkai, atsižvelgiant į patvirtintų ir galiojančių teritorijų planavimo dokumentų sprendinius bei galimybes pagal teisės aktų reikalavimus juos keisti ir į pagal įstatymus vykdomo savivaldybės aplinkos stebėsenos (monitoringo) duomenis, 2022-05-06 raštu Nr. 6B-22-2110 pateikė išvadą, kad pastabų, pasiūlymų neteikia. Nacionalinio visuomenės sveikatos centro prie Sveikatos apsaugos ministerijos Kauno departamentas pagal PAV įstatymo 6 straipsnio 5 dalies 1 punktą,

atsakingas už PŪV veiksnių, darančių įtaką visuomenės sveikatai, galimo poveikio visuomenės sveikatai vertinimą, 2022-05-02 raštu Nr. (2-21 14.3.5 Mr)2-24764 antrą kartą pateikė pasiūlymus: nepateikta prašyta informacija ar planuojama įrengti Europinės vėžės dvikelė geležinkelio linija neįtakos PŪV triukšmo lygio padidėjimo ir jo atitiktį Higienos normoje reglamentuojamiems ribiniams dydžiams, jeigu reikia, numatant prieštriukšmines priemones; nepateiktas 4 priede suminio esamos ir PŪV šešėliavimo modeliavimo rezultatų grafinis atvaizdavimas, pritaikius šešėliavimo mažinimo priemones. Atrankos informacijos rengėjai motyvuotai atsakė į pateiktus pasiūlymus: 1. PŪV atrankos dėl poveikio aplinkai vertinimo tikslas ir objektas yra vėjo elektrinių parko įrengimas Jonavos rajone. Pagal modeliavimo rezultatus prognozuojamas PŪV – vėjo elektrinių sukeliamas triukšmo rodiklis ties gyvenama aplinka neviršija Higienos normoje nustatytų didžiausių leidžiamų triukšmo ribinių dydžių, todėl numatyti triukšmo mažinimo priemonių nėra pagrindo. Planuojama įrengti Europinės vėžės dvikelė geležinkelio linija nėra šios atrankos vertinimo objektas. Planuojamo vėjo elektrinių parko triukšmo modeliavimo darbai atliekami su specializuota WindPro programine įranga, kuri naudojama tik vėjo elektrinių triukšmo skaičiavimui. 2. Programinės įrangos „WindPro“ šešėliavimo prognozavimo plėtinys „Shadow“ šešėliavimo mažinimo priemonių („shutdown“) vertinimo rezultatus pateikia tik lentelės forma, grafinio atvaizdavimo nepateikia. Priešgaisrinės apsaugos ir gelbėjimo departamento prie Vidaus reikalų ministerijos Kauno priešgaisrinė gelbėjimo valdyba pagal PAV įstatymo 6 straipsnio 5 dalies 3 punktą, atsakinga už PŪV vykdymo metu galimų įvykių, ekstremaliųjų įvykių, ekstremaliųjų situacijų, numatomų priemonių joms išvengti ar sušvelninti ir padariniams likviduoti, 2022-03-08 raštu Nr. 9.4-2-352 pateikė išvadą, kad pasiūlymų ir pastabų pagal kompetenciją atrankos informacijai neturi. Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis skyrius pagal PAV įstatymo 6 straipsnio 5 dalies 2 punktą, atsakingas už galimą PŪV poveikį nekilnojamajam kultūros paveldui, 2022-02-28 raštu Nr. (9.38-K)2K-656 pateikė išvadą, kad PŪV neigiamo poveikio kultūros paveldo objektams nedarys, kadangi artimiausioje aplinkoje, kurioje PŪV kultūros paveldo objektų ar jų apsaugos zonų nėra. Paveldosauginiai reikalavimai žemės sklypams ir juose planuojamai vykdyti veiklai nekeliami.

Agentūra, pasibaigus pasiūlymų teikimo terminui dėl PŪV poveikio aplinkai vertinimo, pastabų ir pasiūlymų iš suinteresuotos visuomenės negavo.

8. Priimta atrankos išvada.

Vadovaujantis PAV įstatymo 7 straipsnio 7 dalimi ir atsižvelgus į išdėstytus motyvus priimama atrankos išvada: UAB „Taupi energija“ PŪV – vėjo elektrinių parko įrengimui Jonavos r. poveikio aplinkai vertinimas neprivalomas.

Atrankos išvada yra priimta pagal pateiktą atrankos informaciją, kuri yra patalpinta Agentūros tinklalapyje *https://aaa.lrv.lt/* nuorodoje *Veiklos sritys > Poveikio aplinkai vertinimas (PAV) > 2022 metai > 3. Atrankos dėl poveikio aplinkai vertinimo informacija 2022 m. > Kauno regionas (14*) ir yra atrankos išvados sudedamoji dalis.

9. Nurodoma atrankos išvados apskundimo tvarka.

Šį sprendimą Jūs turite teisę apskųsti Lietuvos administracinių ginčų komisijai (Vilniaus g. 27, 01402 Vilnius) Lietuvos Respublikos ikiteisminio administracinių ginčų nagrinėjimo tvarkos įstatymo nustatyta tvarka arba Vilniaus apygardos administraciniam teismui (Žygimantų g. 2, 01102 Vilnius) Lietuvos Respublikos administracinių bylų teisenos įstatymo nustatyta tvarka per vieną mėnesį nuo jo paskelbimo arba įteikimo dienos.

**APLINKOS APSAUGOS AGENTŪROS 2022- RAŠTO NR. (30.2)-A4E-
ADRESATŲ SĄRAŠAS**

Jonavos rajono savivaldybės administracijai
Siunčiama per e. pristatymas sistemą

Nacionaliniam visuomenės sveikatos centro prie Sveikatos apsaugos ministerijos
Siunčiama per e. pristatymas sistemą

Priešgaisrinės apsaugos ir gelbėjimo departamento prie Vidaus reikalų ministerijos Kauno priešgaisrinei gelbėjimo valdybai
Siunčiama per e. pristatymas sistemą

Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritoriniam skyriui
El. p. kaunas@kpd.lt

Kopija
Aplinkos apsaugos departamentui prie Aplinkos ministerijos
Siunčiama per e. pristatymas sistemą

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Aplinkos apsaugos agentūra, A. Juozapavičiaus g. 9, LT-09311 Vilnius
Dokumento pavadinimas (antraštė)	ATRANKOS IŠVADA DĖL VĖJO ELEKTRINIŲ PARKO ĮRENGIMO JONAVOS R. SAV., POVEIKIO APLINKAI VERTINIMO
Dokumento registracijos data ir numeris	2022-05-13 Nr. (30.2)-A4E-5622
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0, GEDOC
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Parašo sukūrimo data ir laikas	2022-05-12 17:33:03
Parašo formatas	Parašas, pažymėtas laiko žyma
Laiko žymoje nurodytas laikas	2022-05-12 17:33:48
Informacija apie sertifikavimo paslaugų teikėją	ADIC CA-A
Sertifikato galiojimo laikas	2022-05-03 - 2025-05-02
Parašo paskirtis	Registravimas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Parašo sukūrimo data ir laikas	2022-05-13 09:53:52
Parašo formatas	Trumpalaikis skaitmeninis parašas, kuriame taip pat saugoma sertifikato informacija
Laiko žymoje nurodytas laikas	
Informacija apie sertifikavimo paslaugų teikėją	RCSC IssuingCA
Sertifikato galiojimo laikas	2021-01-07 - 2023-01-07
Pagrindinio dokumento priedų skaičius	0
Pagrindinio dokumento pridedamų dokumentų skaičius	0
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	Elektroninė dokumentų valdymo sistema VDVIS, versija v. 3.04.02
El. dokumento įvykius aprašantys metaduomenys	
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	El. dokumentas atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja. Tikrinimo data: 2022-05-16 15:19:47
Elektroninio dokumento nuorašo atspausdinimo data ir ją atspausdinęs darbuotojas	
Paieškos nuoroda	

APLINKOS APSAUGOS AGENTŪRA

Biudžetinė įstaiga, A. Juozapavičiaus g. 9, LT-09311 Vilnius, mob. tel. +370 682 92653, el. p. aaa@gamta.lt, https://aaa.lrv.lt
Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188784898

Į 2022-08-03 Nr. S22-122

Adresatams pagal sąrašą

ATRANKOS IŠVADA DĖL VĖJO ELEKTRINIŲ PARKO ĮRENGIMO JONAVOS R. SAV. POVEIKIO APLINKAI VERTINIMO

2022- Nr. (30-2)-A4E-

1. Planuojamos ūkinės veiklos organizatorius (fizinio asmens vardas, pavardė; juridinio asmens pavadinimas, adresas, telefono numeris, el. pašto adresas).

UAB „Žvirblonų žalioji energija“, Simaniškių g. 19, Žvirbloniai, 83234 Pakruojo r. sav., tel. +370 615 15246, el. p. mm@1am.lt.

2. Poveikio aplinkai vertinimo dokumentų rengėjas (fizinio asmens vardas, pavardė; juridinio asmens pavadinimas, adresas, telefono numeris, el. pašto adresas).

VšĮ Pajūrio tyrimų ir planavimo institutas, V. Berbomo g. 10-201, LT-92221 Klaipėda, tel. +370 602 45523, +370 46 390818, el. p. ausra.kungiene@corpi.lt.

3. Planuojamos ūkinės veiklos atrankos dėl poveikio aplinkai vertinimo atlikimo teisinis pagrindas pagal Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 7 straipsnio 2 dalį, nurodant šio įstatymo 2 priedo punktą (-us).

Atranka dėl poveikio aplinkai vertinimo atliekama, vadovaujantis Lietuvos Respublikos planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo (toliau – PAV įstatymas) (2022-01-20 – 2022-07-07 galiojusi redakcija) 2 priedo 3.8. punkto 3.8.1 papunkčiu – kai įrengiamos 3 vėjo elektrinės, kurių bent vienos aukštis 50 m (matuojant iki aukščiausio konstrukcijų taško) ar daugiau.

4. Planuojamos ūkinės veiklos vieta.

Vėjo elektrinių parką numatoma statyti ir eksploatuoti Praulių k., Šilų sen., Narauninkiškių, Gečių, Žeimelių, Vaivadiškių, Madlinavos, Širvių, Ražuotinės, Karaliūnų k., Bukonių sen., Jonavos r. sav., žemės sklypuose, kurių kadastriniai 4618/0006:171, Nr. 4618/0006:184, Nr. 4618/0006:172, Nr.4618/0006:170, Nr. 4618/0004:54, Nr. 4618/0004:85, Nr. 4618/0004:37, Nr. 4618/0006:373, Nr. 4618/0006:75, Nr. 4628/0001:241, Nr. 4618/0005:182, Nr. 4618/0005:161, Nr. 4618/0005:119, Nr. 4618/0004:292, Nr. 4618/0004:76, Nr. 4618/0002:77. Elektros transformatorinę pastotę planuojama statyti Širvių k., Bukonių sen., Jonavos r. sav., esančiame žemės sklype kad. Nr. 4618/0004:136 arba Vainių k., Šilų sen. Jonavos r. sav., žemės sklype kad. Nr. 4628/0001:78.

Vadovaujantis Jonavos rajono savivaldybės teritorijos bendrojo plano keitimo, patvirtinto Jonavos rajono savivaldybės tarybos 2017 m. gruodžio 21 d. sprendimu Nr. 1TS-295 „Dėl Jonavos rajono savivaldybės teritorijos bendrojo plano keitimo patvirtinimo“ (toliau – Bendrasis planas),

sprendiniais, PŪV teritorija patenka į žemės ūkio teritorijų zoną (apibendrinta funkcinė zona, kurioje dominuoja žemės ūkio veiklai skirtos teritorijos).

Vadovaujantis Lietuvos Respublikos teritorijų, kuriose gali būti ribojami vėjo elektrinių (aukštų statinių) projektavimo ir statybos darbai, žemėlapiu, patvirtintu Lietuvos kariuomenės vado 2016-02-15 įsakymu Nr. V – 217 „Dėl Lietuvos Respublikos teritorijų, kuriose gali būti ribojami vėjo elektrinių (aukštų statinių) projektavimo ir statybos darbai, žemėlapio patvirtinimo“, PŪV teritorija nepatenka į teritorijas, kuriose ribojami vėjo elektrinių projektavimo ir statybos darbai.

PŪV teritorijoje nėra naudingų iškasenų telkinių. Artimiausias naudingųjų išteklių telkinys nutolęs apie 600 m atstumu. PŪV teritorijoje ir 3,8 km atstumu nuo jos aktyvių geologinių procesų ar reiškinių (pvz., eroziją, sufoziją, karstus, nuošliaužas) nevyksta, geotopų nėra.

Vadovaujantis Nacionalinio kraštovaizdžio tvarkymo plano, patvirtinto Lietuvos Respublikos aplinkos ministro 2015-10-02 įsakymu Nr. D1-703 „Dėl nacionalinio kraštovaizdžio tvarkymo plano“ (toliau – Tvarkymo planas), kraštovaizdžio vizualinio estetinio potencialo žemėlapiu, vėjo elektrinės patenka į V1H2-d vizualinės struktūros tipą.

Vadovaujantis Bendrojo plano Gamtinio karkaso brėžiniu, dalis žemės sklypų patenka į gamtinio karkaso teritorijas.

PŪV teritorija nepatenka į saugomas teritorijas. Artimiausia saugoma teritorija (Šventosios ichtiologinis draustinis) nutolusi 5,1 km atstumu. Artimiausia Europos ekologinio tinklo „Natura 2000“ teritorija (buveinių apsaugai svarbi teritorija Neries upė) nuo vėjo elektrinių nutolusi 3,7 km atstumu.

Vėjo elektrinių statybos vietos nepatenka į Europos Bendrijos svarbos natūralių buveinių teritorijas. Artimiausios Europos Bendrijos svarbos natūralios buveinės yra identifikuotos 115-525 m atstumu.

Žemės sklypuose, kuriuose numatoma įrengti vėjo elektrines, miškų nėra. Nuo artimiausių vėjo elektrinių iki miškų išlaikomas 60–135 m atstumas.

Vadovaujantis Lietuvos ornitologų draugijos su partneriais (Pajūrio tyrimų ir planavimo institutu ir Lietuvos energetikos institutu) nuo 2015 m. vasario iki 2017 kovo mėn. įgyvendinto projekto „Vėjo energetikos plėtra ir biologinei įvairovei svarbios teritorijos (VENBIS)“ duomenimis, paukščių atžvilgiu didžioji PŪV teritorijos dalis patenka į teritorijas, kuriose trūksta duomenų jautrumui įvertinti, likusi dalis patenka į mažai ir vidutiniškai jautrias teritorijas. Šikšnosparnių atžvilgiu vienas PŪV sklypas patenka į mažai jautrią teritoriją, likę sklypai patenka į teritorijas, kuriose nepakanka duomenų jautrumui nustatyti.

Artimiausi paviršinio vandens telkiniai yra Platumos upė, nuo vėjo elektrinės VE04 nutolusi 45 m atstumu ir Juodynės upė, nuo vėjo elektrinių VE12(2), VE17b, VE18 nutolusi 50 m atstumu.

Artimiausia gyvenamoji aplinka nuo planuojamų vėjo elektrinių statybos vietų nutolusi 346 m atstumu. Artimiausias visuomeninės paskirties objektas nutolęs 2,6 km atstumu. PŪV teritorijos gretimybėse pramonės ir sandėliavimo objektų nėra, PŪV vieta nutolusi nuo rekreacinių ir kurortinių vietovių.

PŪV žemės sklypuose registruotų kultūros paveldo vertybių nėra. Artimiausia kultūros paveldo vertybė nutolusi 2,5 km atstumu.

5. Trumpas planuojamos ūkinės veiklos aprašymas.

PŪV metu planuojama įrengti iki 19-os vėjo elektrinių, kurių nominali galia numatoma iki 8 MW, rotoriaus diametras iki 172 m, bokšto aukštis iki 166 m, bendras aukštis iki 252 m, parką. Įgyvendinus PŪV sklypuose atsiras vėjo elektrinės su jų aptarnavimui reikalinga infrastruktūra (privažiavimo keliai, aptarnavimo aikštelė). Vėjo elektrinės įrengimui reikalingas plotas – apie 0,3 ha. Planuojamų vėjo elektrinių generuojama elektros energija požeminiais kabeliais bus pajungta į planuojamą transformatorinę pastotę prie esamos 330 kV elektros perdavimo linijos arba į planuojamą transformatorinę pastotę prie esamos 110 kV elektros perdavimo linijos.

Privažiavimui prie vėjo elektrinių žemės sklypų bus naudojamas esamas kelių tinklas. Esami keliai, vedantys iki vėjo elektrinių įrengimui planuojamų žemės sklypų, pagal poreikį bus

sustiprinti. Nuo esamo kelio iki vėjo elektrinių įrengimo aikštelių bus nutiesti reikalingi privažiavimo keliai.

PŪV metu nenumatoma naudoti pavojingų cheminių medžiagų ar preparatų, radioaktyvių medžiagų, pavojingų ar nepavojingų atliekų.

PŪV metu atliekos nesusidarys. Nedideli kiekiai statybinių atliekų gali susidaryti vėjo elektrinių statybos metu, įrengiant aptarnavimo aikšteles, privažiavimo kelius, montuojant pamatus. Baigus vėjo elektrinių parko eksploataciją, vėjo elektrinių modelių demontavimo metu, gali susidaryti nedideli kiekiai mišrių statybinių atliekų.

PŪV metu gamybinės ir buitinės nuotekos nesusidarys. Lietaus nuotekos nuo vėjo elektrinių aptarnavimo aikštelių nebus surenkamos, natūraliai filtruosis į gruntą.

PŪV metu cheminė tarša (oro, dirvožemio, vandens teršalų, nuosėdų susidarymas) nesusidarys.

Eksploatacijos metu triukšmas galimas dėl vėjo elektrinių veiklos. Siekiant nustatyti planuojamų vėjo elektrinių triukšmo poveikio zonas buvo atliktas matematinis susidarančių triukšmo lygių sklaidos modeliavimas. Esant saulėtam orui vėjo elektrinės meta šešėlį ant gretimų objektų, arti vėjo elektrinių, galimas besisukančių sparnų keliamo šviesos mirgėjimo poveikis. Siekiant įvertinti šešėliavimo poveikį, buvo nustatytas tikėtinas šešėliavimo valandų skaičius per metus artimiausiose gyvenamosiose teritorijose.

Gretimoje aplinkoje (iki 2 km atstumu nuo PŪV) yra suplanuotos 28 vėjo elektrinės. Siekiant nustatyti suminę suplanuotų ir planuojamų vėjo elektrinių skleidžiamo triukšmo ir šešėliavimo įtaką gyvenamai aplinkai atlikti suminio triukšmo lygio ir šešėliavimo įvertinimai.

6. Priemonės numatomam reikšmingam neigiamam poveikiui aplinkai išvengti arba užkirsti jam kelią ir jų įgyvendinimo grafikas.

6.1. Vėjo elektrinių parko ir jam reikalingos infrastruktūros įrengimo metu nukastas derlingas dirvožemio sluoksnis bus sandėliuojamas tam numatytoje vietoje. Užbaigus vėjo elektrinių parko įrengimą darbų zona bus sutvarkoma, likęs gruntas ir dirvožemis tolygiai paskirstomi teritorijoje, teritorija apželdinama.

6.2. Vėjo elektrinių įrengimo metu, esant poreikiui, melioracijos įrenginiai bus perkeliami, nepažeidžiant jų sistemos.

6.3. Elektros kabelio linija per Platumos ir Juodynės upes bus tiesiama prastūmimo būdu, t. y. upelių vaga nebus pažeidžiama kasant atviru būdu. Kabelio linijos atkarpos, einančios lygiagrečiai paviršinio vandens telkiniams, bus tiesiamos atsitraukiant už pakrantės apsaugos juostos ribų.

6.4. Vėjo elektrinių pajungimo kabelių linijų trasos bus parinktos taip, kad nebūtų vykdomi miško ar kitų želdinių kirtimai. Vėjo elektrinių bokštų statybos vietos, vidinių privažiavimo kelių trasos bus parinktos išsaugant teritorijoje esančius laukų miškelius, želdinių grupes.

6.5. Medžių, krūmų šalinimo darbai, paviršinis pievos sluoksnio nukasimas nebus atliekami intensyviausiu įprastų paukščių perėjimo metu (gegužės-birželio mėn.). Aptikus perinčius paukščius ar jų lizdus augalijos šalinimo vietose darbai bus sustabdyti iki tol, kol jaunikliai paliks lizdus.

6.6. Vėjo elektrinių parko įrengimo darbus numatoma vykdyti tik darbo dienomis dienos metu.

6.7. Šešėliavimo poveikio mažinimui vėjo elektrinėse VE01, VE03, VE04, VE05, VE11a, VE11b, VE15, VE17a, VE17b numatoma įrengti „shadow shut down“ sistemą.

6.8. Siekiant išvengti galimo triukšmo ribinių verčių viršijimo artimiausioje gyvenamoje aplinkoje vėjo elektrinės VE01 triukšmo lygis bus ribojamas iki 105,0 dBA.

6.9. Esami lauko keliai, kurie bus naudojami vėjo elektrinių įrengimui ir aptarnavimui, pagal poreikį bus sustiprinti, žvyrkelių dulkėjimo mažinimui numatoma drėkinti kelio dangą. Vietinės reikšmės keliai bus periodiškai prižiūrimi.

6.10. Numatoma paruošti ir suderinti paukščių ir šikšnosparnių monitoringo programą siekiant nustatyti konkrečių vėjo elektrinių galimo poveikio reikšmingumą ir pasiūlyti

efektyviausias priemones, leidžiančias poveikio išvengti, jį sumažinti iki nereikšmingo arba kompensuoti. Programa apims ne mažiau kaip metus iki vėjo elektrinių statybos arba veiklos pradžios ir tris metus po vėjo elektrinių veiklos pradžios. Vėliau monitoringo tyrimai kartojami kas 5 metai.

6.11. Vykdomos veiklos metu paaiškėjus, kad daromas didesnis poveikis aplinkai už atrankos informacijoje pateiktus arba teisės aktuose nustatytus rodiklius, veiklos vykdytojas privalės nedelsiant taikyti papildomas poveikį aplinkai mažinančias priemones arba mažinti veiklos apimtis/nutraukti veiklą.

6.12. Veiklos vykdytojas visais atvejais privalės laikytis visų aktualių veiklą reglamentuojančių teisės aktų reikalavimų, keičiantis teisiniam reglamentavimui atitinkamai keisti veiklos rodiklius.

7. Motyvai, kuriais remtasi priimant atrankos išvadą.

7.1. PŪV teritorija nepatenka į saugomas teritorijas. Artimiausia saugoma teritorija (Šventosios ichtiologinis draustinis) nutolusi 5,1 km atstumu. Artimiausia Europos ekologinio tinklo „Natura 2000“ teritorija (buveinių apsaugai svarbi teritorija Neries upė) nuo vėjo elektrinių nutolusi 3,7 km atstumu. PŪV teritorija yra nutolusi nuo saugomų teritorijų ir jose saugomų gamtinių vertybių, todėl PŪV įgyvendinimas reikšmingos neigiamos įtakos joms neturės.

7.2. Tiek PŪV sukeliamas triukšmo lygis, tiek įvertintas suminis PŪV metu ir gretimai suplanuotos analogiškos ūkinės veiklos triukšmo lygis neviršys Lietuvos higienos normoje HN 33:2011 „Triukšmo ribiniai dydžiai gyvenamuosiuose ir visuomeninės paskirties pastatuose bei jų aplinkoje“, patvirtintoje Lietuvos Respublikos sveikatos apsaugos ministro 2011 m. birželio 13 d. įsakymu Nr. V-604 „Dėl Lietuvos higienos normos HN 33:2011 „Triukšmo ribiniai dydžiai gyvenamuosiuose ir visuomeninės paskirties pastatuose bei jų aplinkoje“ patvirtinimo“, reglamentuojamų triukšmo ribinių dydžių artimiausioje gyvenamojoje aplinkoje. Pagal WindPRO programa atlikto triukšmo modeliavimo rezultatus nustatyta, kad vėjo elektrinių sukeliamas triukšmo lygis artimiausiose gyvenamosiose aplinkose, nutolusiose 350–1237 m nuo artimiausios vėjo elektrinės, gali siekti 32,1–43,9 dBA. Atlikus suminį PŪV ir gretimoje aplinkoje (iki 2 km atstumu nuo PŪV) esamos analogiškos ūkinės veiklos triukšmo lygio vertinimą nustatyta, kad vėjo elektrinių sukeliamas triukšmo lygis artimiausiose gyvenamosiose aplinkose gali siekti 34,1–44,5 dBA.

7.3. Šešėliavimo poveikio vertinimui Lietuvoje sukurtų ir patvirtintų metodikų ar higienos normų nėra, todėl kaip leidžiamas šešėliavimo lygis yra priimtas Vokietijos standartų rekomenduojamas leistinas šešėliavimo ribinis lygis, t. y. maksimaliai 30 val./metus arba 30 min./dieną. Atlikus šešėliavimo sklaidos modeliavimą kompiuterine programa WindPRO nustatyta, kad artimiausiose gyvenamosiose aplinkose, nutolusiose 350–1237 m nuo artimiausios vėjo elektrinės, šešėliavimas sieks iki 81:15 val./metus ir viršys 30 val./metus. Šiuos viršijimus įtakoja vėjo elektrinės VE01, VE04, VE05, VE11a, VE11b, VE15, VE16, VE17a, todėl šiose vėjo elektrinėse bus taikomos šešėliavimo mažinimo priemonės („shadow shut down“ sistema). Atlikus šešėliavimo analizę įvertinus poveikio mažinimo priemonę, šešėliavimo trukmė gyvenamųjų sodybų aplinkoje sieks 27:27 val./metus ir neviršys 30 val./metus.

Atlikus suminį PŪV ir gretimoje aplinkoje (iki 2 km atstumu nuo PŪV) esamos analogiškos ūkinės veiklos šešėliavimo vertinimą nustatyta, kad šešėliavimo trukmė gyvenamųjų sodybų aplinkoje sieks 87:31 val./metus ir viršys 30 val./metus. Šiuos viršijimus įtakoja vėjo elektrinės VE01, VE03, VE04, VE05, VE11, VE11a, VE11b, VE15, VE16, VE17a ir VE17b, todėl šiose vėjo elektrinėse bus taikomos šešėliavimo mažinimo priemonės. Atlikus šešėliavimo analizę įvertinus poveikio mažinimo priemonę, šešėliavimo trukmė gyvenamųjų sodybų aplinkoje sieks 29:20 val./metus ir neviršys 30 val./metus.

7.4. Vadovaujantis Tvarkymo plano kraštovaizdžio vizualinio estetinio potencialo žemėlapiu, vėjo elektrinės nepatenka į 27 ypač saugomo šalies vizualinio estetinio potencialo arealus ir vietoves bei į labai didelio ir didelio estetinio potencialo ypač ir vidutiniškai raiškius

kraštovaizdžio kompleksus (AI, AII, AIII, AIV, BI, BII, BIII ir BIV kraštovaizdžio vizualinės struktūros tipai). Vėjo elektrinės patenka į V1H2-d (CII) vizualinės struktūros tipą.

Įrengus suplanuotas ir PŪV metu planuojamas 252 m bendro aukščio vėjo elektrines, vizualinės įtakos modulio apskaičiuota zona, kurioje vertikalaus matymo kampas galėtų viršyti 2,8º laipsnio ribą, susidaro iki 5,2 km atstumu nuo vėjo elektrinių.

Iki 5,2 km atstumu nuo vėjo elektrinių svarbių kraštovaizdžio apžvalgos taškų įtrauktų į Aplinkos ministerijos parengtus Vertingiausių šalies kraštovaizdžio panoramų apžvalgos taškų sąrašą ir Vizualiai raiškių gamtos ir (ar) nekilnojamojo kultūros paveldo objektų apžvalgos taškų sąrašą, nėra. Pagal Vertingiausių šalies kraštovaizdžio panoramų apžvalgos taškų sąrašą artimiausias kraštovaizdžio panoramų apžvalgos taškas – Lantainių piliakalnis (Kauno r. sav., Domeikavos sen., Radikių k.) – yra apie 25,8 km atstumu nuo planuojamo vėjo elektrinių parko.

Pagal atliktą poveikio kraštovaizdžiui vertinimą, vėjo elektrinių parko įrengimas nesukels reikšmingo neigiamo poveikio kraštovaizdžio vizualiniam estetiniam potencialui.

7.5. Vėjo elektrinių statybos ir eksploatacijos metu cheminė tarša (oro, dirvožemio, vandens teršalų, nuosėdų susidarymas) nesusidarys. PŪV neįtakos vandens naudojimo ir buitinių ar gamybinių nuotekų susidarymo.

7.6. Vėjo elektrinių statybos metu susidariusios atliekos bus tvarkomos vadovaujantis Atliekų tvarkymo taisyklėmis, patvirtintomis Lietuvos Respublikos aplinkos ministro 1999 m. liepos 14 d. įsakymu Nr. 217 „Dėl Atliekų tvarkymo taisyklių patvirtinimo“. PŪV eksploatacijos metu atliekos nesusidarys. Baigus vėjo elektrinių eksploataciją susidariusios atliekos bus tvarkomos teisės aktuose numatyta tvarka.

7.7. PŪV metu natūralios buveinės nebus užstatomos arba kitaip sunaikinamos ar suskaidomos, jų plotas nesumažės. Vėjo elektrinių parko įrengimas neįtakos hidrologinio režimo pokyčių. PŪV numatoma vykdyti už Platumos ir Juodynės upių pakrantės apsaugos juostų ribų.

7.8. PŪV metu nebus vykdomas žemės paviršiaus planiravimas, nebus keičiamas teritorijos reljefas ir hidrologinis režimas, nebus vykdomi miškų kirtimo darbai, todėl PŪV reikšmingo neigiamo poveikio išskirtoms gamtinio karkaso teritorijoms neturės, gamtinio karkaso tinklo vientisumas nebus pažeistas.

7.9. Pagal atliktus paukščių stebėjimus galima prognozuoti, kad pilkosioms gervėms, baltiesiems gandras, kuomet jie skrenda tranzitu, planuojamas vėjo elektrinių parkas nedarys kliūties efekto ar kito neigiamo poveikio. Įgyvendinus PŪV ir vykdant monitoringą bei parenkant poveikio mažinimo priemones didesnis dėmesys turėtų būti skiriamas teritorijoje identifikuotoms jautrioms vėjo elektrinių poveikiui rūšims – mažiesiems ereliams rėksniams bei paprastiesiems suopiams. Pagal planuojamo vėjo elektrinių parko teritorijoje atliktus šikšnosparnių stebėjimus, veisimosi metu poveikį šikšnosparniams gali daryti atskiros vėjo elektrinės, kurios yra arčiausiai miško pakraščio. Jei monitoringo metu šis poveikis bus nustatytas, bus numatomos poveikį mažinančios priemonės.

7.10. PŪV bus planuojama ir vykdoma laikantis Lietuvos Respublikos specialiųjų žemės naudojimo sąlygų, Lietuvos Respublikos Saugomų teritorijų ir Lietuvos Respublikos atsinaujinančių išteklių energetikos įstatymuose nustatytų reikalavimų.

Poveikio aplinkai vertinimo subjektai: Jonavos rajono savivaldybės administracija pagal PAV įstatymo 6 straipsnio 5 dalies 5 punktą, atsakinga už PŪV poveikio aplinkai vertinimo ir šios veiklos galimo poveikio aplinkai, atsižvelgiant į patvirtintų ir galiojančių teritorijų planavimo dokumentų sprendinius bei galimybes pagal teisės aktų reikalavimus juos keisti ir į pagal įstatymus vykdomo savivaldybės aplinkos stebėsenos (monitoringo) duomenis, pastabų atrankos informacijai, pagal kurią priimama ši atrankos išvada bei pasiūlymų, kad PŪV reikalinga atlikti poveikio aplinkai vertinimą nepateikė. Nacionalinio visuomenės sveikatos centro prie Sveikatos apsaugos ministerijos Kauno departamentas pagal PAV įstatymo 6 straipsnio 5 dalies 1 punktą, atsakingas už PŪV veiksnių, darančių įtaką visuomenės sveikatai, galimo poveikio visuomenės sveikatai vertinimą, 2022-07-13 raštu Nr. (2-21 14.3.5 Mr)2-35914 pateikė siūlymą priimti atrankos išvadą, kad PŪV poveikio aplinkai vertinimas neprivalomas. Priešgaisrinės apsaugos ir gelbėjimo departamento prie

Vidaus reikalų ministerijos Kauno priešgaisrinė gelbėjimo valdyba pagal PAV įstatymo 6 straipsnio 5 dalies 3 punktą, atsakingas už PŪV vykdymo metu galimų įvykių, ekstremaliųjų įvykių, ekstremaliųjų situacijų, numatomų priemonių joms išvengti ar sušvelninti ir padariniams likviduoti, 2022-07-08 raštu Nr. 9.4-2-978 pateikė išvadą, kad pasiūlymų ir pastabų atrankos informacijos neturi, pasiūlymų, kad PŪV reikalinga atlikti poveikio aplinkai vertinimą nepateikė. Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritorinis skyrius pagal PAV įstatymo 6 straipsnio 5 dalies 2 punktą, atsakingas už galimą PŪV poveikį nekilnojamajam kultūros paveldui, pastabų papildytai atrankos informacijai, pagal kurią priimama ši atrankos išvada bei pasiūlymo, kad PŪV reikalinga atlikti poveikio aplinkai vertinimą nepateikė.

Agentūra, pasibaigus pasiūlymų teikimo terminui dėl PŪV poveikio aplinkai vertinimo, pastabų ir pasiūlymų iš suinteresuotos visuomenės negavo.

8. Priimta atrankos išvada.

Vadovaujantis PAV įstatymo 7 straipsnio 7 dalimi ir atsižvelgus į išdėstytus motyvus priimama atrankos išvada: UAB „Žvirblonių žalioji energija“ PŪV – vėjo elektrinių parko įrengimui Jonavos r. sav. – poveikio aplinkai vertinimas neprivalomas.

Atrankos išvada yra priimta pagal pateiktą Atrankos informaciją, kuri yra patalpinta Aplinkos apsaugos agentūros tinklalapyje *https://aaa.lrv.lt/* nuorodoje *Veiklos sritys > Poveikio aplinkai vertinimas (PAV) > 2022 metai > 3. Atrankos dėl poveikio aplinkai vertinimo informacija 2022 m. > Kauno regionas (45).*

9. Nurodoma atrankos išvados apskundimo tvarka.

Šį sprendimą Jūs turite teisę apskųsti Lietuvos administracinių ginčų komisijai (Vilniaus g. 27, 01402 Vilnius) Lietuvos Respublikos ikiteisminio administracinių ginčų nagrinėjimo tvarkos įstatymo nustatyta tvarka arba Vilniaus apygardos administraciniam teismui (Žygimantų g. 2, 01102 Vilnius) Lietuvos Respublikos administracinių bylų teisenos įstatymo nustatyta tvarka per vieną mėnesį nuo jo paskelbimo arba įteikimo dienos.

APLINKOS APSAUGOS AGENTŪROS 2022- RAŠTO NR. (30-2)-A4E-ADRESATŲ SĄRAŠAS

Jonavos rajono savivaldybės administracijai
Siunčiama per e. pristatymą

Nacionaliniam visuomenės sveikatos centrui prie Sveikatos apsaugos ministerijos
Siunčiama per e. pristatymą

Priešgaisrinės apsaugos ir gelbėjimo departamento prie Vidaus reikalų ministerijos Kauno priešgaisrinei gelbėjimo valdybai
Siunčiama per e. pristatymą

Kultūros paveldo departamento prie Kultūros ministerijos Kauno teritoriniam skyriui
Siunčiama per e. pristatymą

Kopija
Aplinkos apsaugos departamentui prie Aplinkos ministerijos
Siunčiama per e. pristatymas sistemą

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Aplinkos apsaugos agentūra 188784898, A. Juozapavičiaus g. 9, LT-09311 Vilnius
Dokumento pavadinimas (antraštė)	Atrankos išvada dėl vėjo elektrinių parko įrengimo Jonavos rajono savivaldybėje poveikio aplinkai vertinimo
Dokumento registracijos data ir numeris	2022-09-02 Nr. (30-2)-A4-122
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	
Sertifikatas išduotas	
Parašo sukūrimo data ir laikas	2022-09-02 11:04:27 (GMT+03:00)
Parašo formatas	XAdES-EPES
Laiko žymoje nurodytas laikas	–
Informacija apie sertifikavimo paslaugų teikėją	ADIC CA-A, Asmens dokumentu israsymo centras prie LR VRM LT
Sertifikato galiojimo laikas	2022-05-03 10:14:36 – 2025-05-02 10:14:36
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT" išduotą sertifikatą "DBSIS, Informatikos ir ryšių departamentas prie Lietuvos Respublikos vidaus reikalų ministerijos, į.k.188774822 LT", sertifikatas galioja nuo 2022-05-19 16:48:06 iki 2025-05-18 16:48:06
Pagrindinio dokumento priedų skaičius	–
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	DBSIS, versija 3.5.66.1
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2022-09-02 11:10:02)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2022-09-02 11:10:02 DBSIS

5.5 Priedėlis. Atsakymai į VSTT išvados motyvus

UAB INFRAPLANAS

PATIKSLINIMAS, PAPILDYMAS BEI ATSAKYMAI Į VSTT MOTYVUS DĖL„VĖJO ELEKTRINIŲ PARKO (JONAVOS R. SAV.) ĮRENGIMO IR EKSPLOATACIJOS POVEIKIO APLINKAI VERTINIMO“ 5.3 PRIEDĖLIO. ORNITOLOGINIŲ TYRIMŲ ATASKAITOS (PAUKŠČIŲ IR ŠIKŠNOSPARNIŲ 2022–2023 M. TYRIMŲ, ATLIKTŲ JONAVOS R. SAV. PLANUOJAMO VĖJO ELEKTRINIŲ PARKO TERITORIJOJE ATASKAITA)

Visa reikalinga ir aktuali informacija yra pateikiama 5.3 PRIEDĖLYJE. „Ornitologinių tyrimų ataskaita“. Pagrindinė „Vėjo elektrinių parko (Jonavos r. sav.) įrengimo ir eksploatacijos poveikio aplinkai vertinimo ataskaita“)toliau – Ataskaita).

Atsižvelgiant į Valstybinės saugomų teritorijų tarnybos prie Aplinkos ministerijos (toliau – VSTT) el. paštu pateiktą **IŠVADĄ** 2025-04-22 Nr. V3-548 pridedame papildymus ir atsakymus į mūsų nuomone neargumentuotus **NEIGIAMOS** išvados motyvus, atsakymai pateikti lentelėje žemiau:

Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos pastabos	**Papildoma informacija**
3.1. Motyvai dėl neatitikimo PŪV PAV teisės aktų reikalavimams: Vadovaujantis PŪV PAV įstatymo 4 str. 1 d. 1 p. vienas iš PAV tikslų yra „nustatyti, apibūdinti ir įvertinti galimą tiesioginį ir netiesioginį planuojamos ūkinės veiklos poveikį šiems aplinkos elementams: dirvožemiui, žemės paviršiui ir jos gelmėms, orui, vandeniui, klimatui, kraštovaizdžiui ir biologinei įvairovei, ypatingą dėmesį skiriant Europos Bendrijos svarbos rūšims ir natūralioms buveinėms, taip pat kitoms pagal Saugomų gyvūnų, augalų ir grybų rūšių įstatymą saugomoms rūšims, materialinėms vertybėms, nekilnojamosioms kultūros vertybėms ir šių elementų tarpusavio sąveikai”. Planuojamos ūkinės veiklos poveikio aplinkai vertinimo dokumentų rengimo tvarkos aprašo3 (toliau – PAV aprašas) 1 priede nurodoma, kokie tyrimai ir informacija turi būti pateikta Ataskaitoje šiam tikslui pasiekti: - 93 punkte nurodoma, kad esamos būklės aprašyme turi būti „Duomenys apie planuojamos ūkinės veiklos vietovėje ir gretimybėse esančias saugomas rūšis, jų augavietes ir radavietes, kurių informacija kaupiama SRIS (saugomų rūšių informacinė sistema) duomenų bazėje (https://sris.am.lt/), jų atstumą nuo planuojamos ūkinės veiklos vietos (objekto ar sklypo, kai toks suformuotas, ribos). Poveikio vertinimui naudojami duomenys apie vietovės biologinę įvairovę turi būti ne senesni kaip 6 metų. Jeigu SRIS paskelbta informacija apie planuojamos ūkinės veiklos vietovėje, esančių saugomų rūšių augavietes ir radavietes yra senesnė kaip 6 metų arba nėra tokių duomenų, PAV dokumentų rengėjas aktualią informaciją apie saugomas rūšis ir kitą vietovės biologinę įvairovę turi surinkti iš kitų prieinamų oficialių šaltinių (pateikiant nuorodas į šaltinius) arba **atlikti pakankamos trukmės lauko tyrimus tinkamais metų sezonais, kad gauti rezultatai būtų patikimi ir leistų prognozuoti galimą planuojamos ūkinės veiklos poveikį biologinei įvairovei“;** - 96 punkte – informacija apie vietovės gyvūniją: „96.2. gyvūnų susitelkimo, veisimosi, maitinimosi, poilsio, žiemojimo vietos, migracijos keliai; 96.3. gyvūnai, saugomi pagal Saugomų gyvūnų, augalų ir grybų įstatymą, ir Europos Bendrijos svarbos gyvūnų rūšys“.	Paukščių ir šikšnosparnių tyrimų ataskaitoje informacija atnaujintą pagal naujausią SRIS ir pagal atnaujintus ornitologų duomenis. Visa informacija pateikta ornitologinių tyrimų Ataskaitos skyriuje 2. Tyrimų vietos yra pati naujausia. Surinkta informacija buvo pagal naujausius atliekamus tyrimus šiame ir aplinkiniuose parkuose.

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Informacija apie vietovės gyvūniją turėjo būti surinkta atliekant pakankamos trukmės lauko tyrimus tinkamais sezonais. **Aprašo 4 priedo II skyriuje ir 5 priede detaliai nurodyta kokie tyrimai turėjo būti atlikti PŪV teritorijoje**. Tačiau Ataskaitoje pateikti lauko tyrimai neatitinka PAV aprašo 1 priedo 93 p, tuo pačiu ir Aprašo 4 priedo II skyriaus ir 5 priedo lauko tyrimams keliamų reikalavimų, nes:	
a) 5.3 priedėlio 7 psl. pateikti plėšriųjų ir sklandančių paukščių taškai, iš viso 6. Vadovaujantis Aprašo 4 priedo 3 p. nurodytu stebėjimo taškų parinkimo principu „<...> Stebėjimo taškų skaičius ir vietos parenkami taip, kad būtų galima apžvelgti visą planuojamo ar esamo VE parko teritoriją, iš vieno taško paukščius patikimai stebėti iki 2–3 km atstumu. Jei teritorijoje yra apžvalgos lauką užstojančių kraštovaizdžio elementų, pasirenkama daugiau stebėjimo taškų mažesniu atstumu, užtikrinančiu visos VE ar jų parko teritorijos matomumą. Stebėjimo taškų vietos pasirenkamos, kad kuo geriau būtų matomos apylinkės. <...>“, 4.3. pp. nurodyta tyrimų apimtimi „<...> VE ar jų parkų teritorija ir jos aplinka (2 km nuo teritorijos) turi būti išžvalgyta ir nustatytos visos plėšriųjų paukščių lizdų vietos žiemos metu, arba, jei nėra tokios galimybės, lizdų, lizdaviečių paieška vykdoma po apskaitų nustačius lizdo vietą bet kuriuo metų laiku <...>“, Aprašo 2 priede pateiktais reikšmingo neigiamo ir galimo reikšmingo neigiam poveikio atstumais, kuriuose privaloma taikyti reikšmingo neigiamo poveikio mažinimo priemones, suponuoja, kad VE jautrių paukščių rūšių lizdavietės turi būti žinomos iki 3,5 km atstumu nuo VE parko, nes būtent toks atstumas yra įvardijamas kaip galimai reikšmingas, VE parke pasirinkta per mažai paukščių stebėjimo taškų. Atsižvelgiant į Aprašo numatytus stebėjimo taškų principus VE parke turėjo būti parinkti dar mažiausiai 6 stebėjimo taškai, kad minimaliai būtų apžvelgta 2 km teritorija aplink VE parką, 4 – atsižvelgiant į planuojamas statyti VE (atsisakyta 13 VE statybos).	Ataskaitos skyriuje 2. TYRIMŲ VIETOS 2 pav. parodyti kiekvieno stebėjimo taško apžvalgos plotai (stebint su optine įranga). Apžvalgos zona padengia praktiškai visą analizuojamą teritoriją. Likę nepadengti plotai, atvirame kraštovaizdyje buvo analizuoti sankaupų paieškos metu, o miškų plotai - lizdų paieškos metu.
b) Per maža paukščių tyrimų apimtis laike. 5.3 priedėlio 6 psl. nurodoma, kad „Planuojamo VE parko teritorijoje ir apylinkėse paukščių ir šikšnosparnių tyrimai buvo atliekami apytiksliai 490 val.“. Tačiau, vadovaujantis Aprašo 4 priedo 4 p. pateikta paukščių tyrimų apimtimi laike, galime lengvai apsiskaičiuoti, kad 6 stebėjimo taškuose (6 taškai x 40 val. (40 val. pagal 4.1. pp. ir 9 val. pagal 4.3. pp.)) įskaičiuojant paukščių sankaupų tyrimus (minimalus tyrimų laikas 56 val.) turėtų būti 350 val., o minimalus šikšnosparnių tyrimų laikas 19 taškų (kaip nurodoma, kad buvo vykdoma) pagal Aprašo 5 priedo reikalavimus 202 val. (plačiau apie šikšnosparnių tyrimus punktuose žemiau). Taip pat dar turėtų būti skiriamo laiko VE parko teritorijoje perinčių paukščių rūšių, nepatenkančių į VE poveikiui jautrių rūšių sąrašą, apskaitoms ir VE jautrių paukščių rūšių lizdaviečių paieškoms, laikui ypač imlios pastarosios ir jų imtis priklauso nuo tinkamų buveinių ypač miškų kiekio PŪV teritorijoje, (nagrinėjama VE parko teritorija yra miškinga). Taigi, akivaizdu, kad skirtos 490 val. paukščių ir šikšnosparnių tyrimams neatitinka Aprašo 4 priedo reikalavimų.	Kadangi buvo skaičiuotas tyrimų laikas šviesiu paros metu, tai jis sudaro apytiksliai 490 val. Šikšnosparnių tyrimai į šį laiką nebuvo įskaičiuoti dėl žmogiškosios klaidos. Jiems buvo skirta iki 250 val. Detali informacija pateikiama paukščių ir šikšnosparnių tyrimų ataskaitos skyriuje 1. Tyrimų organizavimas.
c) 5.3 priedėlyje (toliau – Priedėlis) nėra pateikiama jokios detalesnės informacijos VE jautrių paukščių rūšių lizdaviečių ir perimviečių paiešką, pateikiama tik apibendrinta	Vertinant lizdavietes galutiniame variante buvo naudojamasi visa prieinama informacija: tyrėjo atliktos lizdaviečių patikros rezultatais, kitų LOD tyrėjų dirbančių

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informacija „Pasirinktuose taškuose buvo stebimi ir registruojami visi teritorijoje pastebėti plėšrieji paukščiai, juodieji gandrai, migruojantys paukščiai pasižymint jų skridimo aukščius, kryptis ir mitybos vietas. <...> Perinčių paukščių apskaitos buvo vykdomos apeinant ir apvažiuojant teritoriją, apžiūrint skirtingus biotopus ir stebint visas perinčių paukščių rūšis. Apskaitos vykdytos daugiausiai rytinėmis valandomis stengiantis aplankyti visas teritorijoje esančias buveines“, t. y. nėra nurodoma ar kokia nors lizdaviečių paieška buvo vykdyta. Pirmoje, antroje ir šiuo metu nagrinėjamoje trečioje PAV ataskaitos versijoje pateiktose Tarnybai apie lizdavietes pateikta tik informacija, kuri yra Saugomų rūšių informacinėje sistemoje. Tiesa net ne visi SRIS sistemoje pateikti VE jautrių rūšių lizdai buvo pateikti PAV ataskaitoje, dėl to Tarnyba 2024-02-07 ir 2024-07-22 teikė PAV dokumentų rengėjui pastabas, kad reikia atsinaujinti SRIS duomenis ir pateiki PŪV vertinimą, pagal atnaujintą informaciją. Priedėlio 47 psl. nurodoma, kad „2024 metų rugpjūčio mėn. buvo patikslinti SRIS sistemoje registruoti plėšriųjų paukščių lizdai ir pagal tai pakoreguotos poveikio mažinimo priemonės VE parke“, taigi buvo tikrinami tik jau žinomi lizdai. Iš to suprantame, kad PAV dokumentų rengėjas ar jo pasitelkti konsultantai nevykdė VE jautrių paukščių lizdaviečių paieškos privalomas pagal Aprašo 4 priedo 4.3. pp., o tik naudojosi SRIS duomenimis (duomenis pateikė ir stebėjimus atliko ne PAV dokumentų rengėjo pasitelktas konsultantas). SRIS duomenų naudojimas yra galimas ir netgi privalomas pagal PAV aprašo 1 priedo 93 p., tačiau SRIS informacija yra atsitiktinio pobūdžio, todėl nevykdant sistemingų tyrimų ir lizdaviečių paieškos, nėra užtikrinimo, kad teritorija ištirta pakankamai ir identifikuotis visos VE jautrių paukščių rūšių lizdavietės. Nors PAV dokumentų rengėjas Rašte nurodo, kad „Vadovaujantis LOD išvadomis ir atliktais ornitologiniais tyrimais verta paminėti, kad manome, jog nagrinėjamoje teritorijoje yra maksimalus galimas MER tankumas“. Tačiau neatlikus sistemingų pakankamo detalumo (Aprašo 4 priedo reikalavimai) tyrimų negalima įvertinti tikrojo rūšių tankumo teritorijoje, dėl individualių teritorijų skirtumų, vienose teritorijose tankumas gali būti didesnis ar mažesnis liginant su vidutinėmis nustatytomis reikšmėmis.	gretimose teritorijose patikrų rezultatais ir SRIS duomenimis (kas yra būtina), t. y. Ataskaitoje pateikiama visa informacija Nuo 11 psl. iki 30 psl. Informuojame, kad pagal Lietuvos ornitologų draugijos praktiką, tyrėjų duomenis į SRIS suveda nebūtinai teritorijoje dirbantis asmuo. Dažnu atveju duomenis suveda atsakingas už vidinę GIS aplikaciją specialistas (kas yra leidžiama pagal SRIS taisykles). Taip pat informuojame, kad dažnai į SRIS nevedame lizdaviečių, jau įvestų į SRIS sistemą duomenų, kai lizdo būklė nepakitusi, o įrašas yra nesenas. Tačiau visi šie lizdai tikrinami.
d) Neįvertintas poveikis bevardžiame miške (apytikslės centro koordinatės: 6120060, 513733) SRIS duomenimis identifikuotai paprastai suopio lizdavietei nors palink šį mišką planuojamos 3 VE.	Įvertinta. Šis miškas patenka į tyrimų apžvalgos zoną. Šiame miške buvo vykdoma lizdų paieška, buvo rastas minimas paprastojo suopio lizdas. Detalesnė informacija pateikiama Paukščių ir šikšnosparnių tyrimų ataskaitos skyriuose: 2. Tyrimų vietos ir 3. Plėšriųjų paukščių, aptinkamų perėjimo ir migracijų bei perskridimų metu, tyrimų rezultatai.
e) Priedelyje nurodoma, kad „Besiveisiančių šikšnosparnių tyrimai buvo vykdomi, taikant metodus, kurie buvo taikyti, įgyvendinant 2009–2014 m. Europos ekonominės erdvės finansinio mechanizmo LT03 programos „Biologinė įvairovė ir ekosistemų funkcijos“ projektą „Vėjo energetikos plėtra ir biologinei įvairovei svarbios teritorijos“ (VENBIS).“. šioje metodikoje veisimosi metu siūloma naudoti transektinį tyrimų metodą. Apie migracijos tyrimus nurodoma, taip: „Migruojantys šikšnosparniai buvo registruojami tuose	Tyrimų metu buvo naudojamas taškinis tyrimų metodas (kaip tikslesnis ir labiau atspindintis realią situaciją VE parke). Tyrimai vyko apie 250 val. ir yra pilnai atspindintys situaciją. Stebėjimai atlikti taškuose prie VE darant juose įrašus 10 minučių. Migracijos metu įrašai buvo daromi po 1 valandą pagal. Tyrimų metodika buvo atlikta pagal „Vėjo energetikos plėtra ir biologinei įvairovei svarbios

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pačiuose taškuose, kaip ir per apskaitas veisimosi metu, tik kai kuriais atvejais (taškuose Nr. 4, 18, 19) jų įrašai buvo daromi ilgesni ir viename taške apėmė 60 min. laikotarpį (veisimosi metu įrašymo trukmė – 10 min.)“. Taip pat nurodoma, kad tyrimai veisimosi ir migracijos metu buvo atlikti 19 taškų. Visų pirma, pagal tai kaip pateikta informacija neįmanoma suprasti koks gi tyrimo metodas buvo naudojamas šikšnosparniui veisimosi metu. Tiktai iš rezultatų pateikimo galima numanyti, kad visgi buvo taikomas taškinis tyrimų metodas, nes rezultatai pateikti taškams, viename taške įrašą darant 10 min. Antra, nei iš metodikos aprašymų, nei iš rezultatų pateikimo būdo neįmanoma įvertinti tikslios tyrimų apimties laike migracijos metu. Priedėlio 5 psl. nurodomos tik dekados kuriomis buvo vykdomi tyrimai tačiau ne jų pakartojimų skaičius. Vadovaujantis Aprašo 5 priedo 19.2. pp. šikšnosparnių migracijos tyrimai turi būti atliekami „kas savaitę su ne trumpesne kaip 5 dienų pertrauka (iš viso – ne mažiau kaip 10 apskaitų)”, viename taške įrašą darant ne trumpiau kaip valandą. Taigi pastaruoju aspektu šikšnosparnių migracijos tyrimai neatitinka Aprašo reikalavimų.	teritorijos (VENBIS) Nr. EEE-LT03-AM-01-K-01-004 rekomendacijas“. Detalesnė informacija pateikta skyriuje 2. Tyrimų vietos.
f) Šikšnosparnių migracijos tyrimų metu gauti šių aktyvumo rezultatai neperskaičiuoti pagal Aprašo 5 priedo 23 punkto reikalavimus.	Aprašo III skyriaus ŠIKŠNOSPARNIŲ MIGRACIJOS TYRIMŲ IR MONITORINGO SAUSUMOJE METODIKA 3 lentelėje nurodoma, kad jei VE planuojamos priemonės, tyrimų galima net neatlikti. Kadangi didžiajai daliai VE yra planuojamos poveikio mažinimo priemonės, atlikti tyrimai pilnai atspindi šikšnosparnių situaciją VE parke.
g) Pagal Priedėlio 48 psl. informaciją VE13 planuojama mažesniu, nei 1 km atstumu nuo mažojo erelio rėksnio lizdo, jei siūloma priemonė „Įrengti paukščių išankstinio aptikimo - reagavimo sistemą“. Tačiau vadovaujantis Aprašo 2 priedo 1 lentele, tokiu atstumu nuo erelių lizdų tokia priemonė negalima, nes poveikis yra reikšmingai neigiamas ir VE tokiu atstumu neturėtų būti statomos.	VE Nr. 13 buvo atsisakyta.
h) Priedėlyje VE poveikis PŪV teritorijoje perinčioms VE jautrioms paukščių rūšims (mažasis erelis rėksnys, juodasis gandras, jūrinis erelis) neanalizuojamas pagal Aprašo 2 priedo 1 lentelės galimo reikšmingo neigiamo poveikio atstumus, kuris šioms rūšims yra 3,5 km atstumu.	Visų riziką galinčių sukelti VE ataskaitos rengimo metu buvo atsisakyta. Atsisakius rizikingiausių VE, poveikis nurodytoms rūšims nenumatomas, kadangi technologines poveikio mažinimo priemones planuojama įdiegti visose VE. Detalus aprašymas pateiktas PAV ataskaitos SKYRIUJE 8. PAUKŠČIŲ IR ŠIKŠNOSPARNIŲ TYRIMŲ IŠVADOS IR REKOMENDACIJOS
i)13 VE dėl galimo reikšmingo neigiamo poveikio paukščiams numatomos įrengti paukščių išankstinio aptikimo - reagavimo sistemas, o 9 VE numatomos įrengti automatiškai šikšnosparnius nustatančią ir kritiniu atveju VE veiklą stabdančią sistemas (2 registracijos per minutę). Vadovaujantis Aprašo 3 priedo IV skyriumi numatomos taikyti technologinėms prevencinės priemonės privalo atitikti šiame skyriuje nurodytus reikalavimus. Siekiant įvertinti ar siūloma priemonė atitinka reikalavimus privaloma pateikti informaciją apie priemonės atitikimą reikalavimams. Reikalinga pateikti informacija pateikta Aprašo 3 priedo IV skyriuje (pvz.: Technologinė prevencijos priemonė turi būti sertifikuota ir (ar) ne mažiau kaip 1 metus naudojama paukščiams ir	Technologinės priemonės atitiks tvarkos Aprašo 3 priedo IV skyriuje pateiktus parametrus ir reikalavimus. Detalesnė informacija pateikta Paukščių ir šikšnosparnių tyrimų Ataskaitos skyriuje 8. Paukščių ir šikšnosparnių tyrimų išvados ir rekomendacijos.

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šikšnosparniams nuo žūties apsaugoti bent vienoje Europos Sąjungos ir (ar) Europos ekonominės erdvės šalyje; Praktiškai įvertintas ir patikrintas patikimumas, priemonės efektyvumas, aiški gaunama patikima duomenų amplitudė). Atkreipiame dėmesį, kad 2025 m. pradžioje Prancūzijos tyrėjų paskelbtoje mokslinėje publikacijoje (https://doi.org/10.1002/we.2971) ir pagal šią sukurtoje skaičiuoklėje (https://shiny.cefe.cnrs.fr/en_eoldist/) nustatyti VE pristabdymo laikai ir apskaičiuoti atstumai, kaip toli reikia užfiksuoti paukštį, kad VE būtų spėtos pristabdyti iki šiems priskrendant VE, kuomet yra naudojamos automatinės paukščių fiksavimo ir VE pristabdymo sistemos (toliau – ATS). Nagrinėjant jūrinio erelio pavyzdį, su skaičiuoklėje maksimaliu VE menčių ilgiu 63 m, veisimosi sezono metu (esant 95 % skrydžių aptikimui, tokią ribą saugomoms rūšims rekomenduoja publikacijos autoriai). Skaičiuoklėje nurodoma, kad esant 5 m/s vėjo greičiui, VE iki 2 apsisukimų/min. sulėtėja per 29-39 sek. (priklausomai nuo VE tipo (sinchroninė, asinchroninė)), o reikalingas paukščio užfiksavimo atstumas 685-865 m (priklausomai nuo VE tipo). Esant 10 m/s vėjo greičiui, VE iki 2 apsisukimų/min. sulėtėja per 65-70 sek. (priklausomai nuo VE tipo (sinchroninė, asinchroninė)), o reikalingas paukščio užfiksavimo atstumas 1305-1375 m (priklausomai nuo VE tipo). Esant 15 m/s vėjo greičiui, VE iki 2 apsisukimų/min. sulėtėja per 101-102 sek. (priklausomai nuo VE tipo (sinchroninė, asinchroninė)), o reikalingas paukščio užfiksavimo atstumas 1915-1905 m (priklausomai nuo VE tipo). Greičiau skraidančioms rūšims reikalingas aptikimo atstumas didėja, pvz., mažajam ereliui rėksniui migracijos metu (deja, veisimosi metu įrankyje trūksta duomenų) priklausomai nuo vėjo greičio reikalingas užfiksavimo atstumas svyruoja nuo 735 iki 2065 m. Skaičiuoklėje nagrinėtos PŪV teritorijoje aptiktos rūšys: MER (tik migracijos metu), juodasis ir baltasis gandrai, paprastasis suopis. Publikacijoje taip pat nurodoma, kad lauko tyrimų metu yra nustatyta, kad net ant visų VE instaliuojant ATS, vis tiek yra fiksuojamas reikšmingas paukščių susidūrimų ir žūčių su VE skaičius, paukščių žūtys naudojant ATS nustatytos ir kitais tyrimais4, 5. Dėl aukščiau pateiktų priežasčių, Ataskaitoje pateiktų lauko tyrimų negalima laikyti pakankamos apimties ar patikimais, todėl pagal juos negalima patikimai įvertinti PŪV poveikio biologinei įvairovei, nepateikta privaloma informacija siūlomų poveikio mažinimo priemonių efektyvumui patvirtinti, dėl ko Ataskaita neatitinka Planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatymo 4 str. 1 d.	
3.2 Motyvai dėl neatitikimo saugomų teritorijų ir saugomų gyvūnų rūšių ir laukinės gyvūnijos apsaugos teisės aktų reikalavimams: 3.2.1 Vadovaujantis Saugomų teritorijų įstatymo 24 str. 10 d. „Planai ir projektai, neskirti arba nebūtini buveinių apsaugai svarbiai teritorijai tvarkyti, bet galintys ją reikšmingai paveikti individualiai arba kartu su kitais planais ar projektais, turi būti vertinami dėl galimo poveikio teritorijai Planuojamos ūkinės veiklos poveikio aplinkai vertinimo įstatyme ar Vyriausybės tvirtinamame planų ir programų strateginio pasekmių aplinkai vertinimo tvarkos apraše nustatyta tvarka, atsižvelgiant į	Atsisakyta 6 vnt. VE, kurios pateko į Labūnavos PAST buferinę zoną.

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teritorijos apsaugos tikslus. Atsižvelgdamos į poveikio teritorijai vertinimą ir šio straipsnio 11 dalies nuostatas, valstybės ar savivaldybių institucijos ar įstaigos gali pritarti planui ar projektui tik įsitikinusios, kad planas ar projektas neigiamai nepaveiks nagrinėjamos teritorijos vientisumo, ir prireikus išsiaiškinusios visuomenės nuomonę" (Ši nuostata yra perkelta iš 1992 m. gegužės 21 d. Tarybos Direktyvos 92/43/EEB dėl natūralių buveinių ir laukinės faunos bei floros apsaugos (toliau – Buveinių direktyva) 6 str. 3. d.) ir 14 d. „Šio straipsnio9, 10 ir 11 dalyse nustatyti apsaugos reikalavimai taikomi ir paukščių apsaugai svarbioms teritorijoms". PAST Labūnavos miškas apsaugos tikslai patvirtinti Lietuvos Respublikos aplinkos ministro 2014 m. kovo 14 d. įsakymu Nr. D1-281 „Dėl paukščių apsaugai svarbių teritorijų nustatymo", juose nurodyta, kad „„Natura 2000" teritorijos artima aplinka laikomas plotas, esantis 2 km atstumu nuo paukščių apsaugai svarbios teritorijos ribos. Šiame plote siekiama išvengti maitinimosi buveinių praradimo ir (arba) blogėjimo, grėsmės individų mirtingumui". VE11 yra planuojama mažesniu nei 2 km atstumu nuo PAST, jai siūloma poveikio mažinimo priemonė ATS. Europos komisijos (toliau – EK) pranešime „Planų ir projektų poveikio „Natura 2000" teritorijoms vertinimas. Buveinių direktyvos 92/43/EEB 6 straipsnio 3 ir 4 dalių taikymo metodinės gairės" (2021/C 437/01) EK pateikia išaiškinimą, kad „Buveinių direktyva, kaip ir visi ES aplinkos apsaugos teisės aktai, yra pagrįsta atsargumo principu: tai reiškia, kad tam tikro veiksmo reikšmingo neigiamo poveikio mokslinių įrodymų nebuvimas negali būti naudojamas kaip argumentas to veiksmo patvirtinimui pateisinti. Taikant 6 straipsnio 3 dalies procedūrą, atsargumo principas reiškia, kad prieš leidžiant įgyvendinti planą arba projektą būtina įrodyti, kad nebus neigiamo poveikio „Natura 2000" teritorijoms. Kitaip tariant, jeigu nėra tikrumo dėl to, ar bus koks nors neigiamas poveikis, plano arba projekto patvirtinti negalima.". Buveinių direktyvos 6 straipsnio nuostatos yra perkeltos į Lietuvos Respublikos nacionalinę teisę (Saugomų teritorijų įstatymo 24 str. 8-14 d.), kaip tą įpareigoja padaryti Buveinių direktyvos 23 str. („1. Valstybės narės priima įstatymus ir kitus teisės aktus, kurie, įsigalioję per dvejus metus nuo pranešimo apie šią direktyvą dienos, įgyvendina šią direktyvą. Apie tai jos nedelsdamos praneša Komisijai [EK]"). Taigi Tarnybos nuomone EK pranešimai, kuriuose pateikiamos gairės, kaip teisingai įgyvendinti Buveinių direktyvos nuostatas yra aktualūs ir šios PŪV poveikio PAST vertinimo metu. Todėl remiantis šios Tarnybos išvados 3.1. punkte pateikta mokslinių publikacijų informacija, akivaizdu, kad ATS neužtikrina reikiamos apsaugos PAST saugomiems mažiesiems ereliams rėksniams. Kartu atkreipiame dėmesį, kad Aprašo 2 priedo 1 lentelėje, pateikta reikšmingo neigiamo poveikio priemonių schema mažiesiems ereliams rėksniams (nuo 1,5 km nuo PAST galima naudoti ATS) prieštarauja PAST Labūnavos miškas apsaugos tikslams, tuo pačiu Saugomų teritorijų įstatymo 24 str. 11 ir 14 d. bei Buveinių direktyvos 6 str. 3 d.	
3.2.2. Vadovaujantis saugomų gyvūnų, augalų ir grybų rūšių įstatymo 8 str. 9 d. saugomų rūšių apsauga užtikrinama „vertinant planuojamos ūkinės veiklos poveikio aplinkai	VE parko informacija ir poveikio mažinimo priemonių parinkimas yra atnaujinti. Tyrimų apimtys ir visi pateikiami duomenys leidžia pilnai įvertinti VE parko

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projektus, atliekant planų ir programų strateginį pasekmių aplinkai vertinimą ir šių įvertinimų pagrindu ribojant ar draudžiant ūkinę ar kitokią veiklą, kuri gali daryti neigiamą poveikį saugomoms rūšims“. Todėl dėl Ataskaitoje pateiktų nepakankamų ir nepatikimų lauko tyrimų duomenų Ataskaita taip pat neatitinka saugomų gyvūnų, augalų ir grybų rūšių įstatymo 8 str. nuostatų ir dėl to negalima užtikrinti saugomų rūšių apsaugos.	galimą poveikį paukščiams ir šikšnosparniams šioje teritorijoje.
3.2.3. Nepateikiami privalomi įrodymai apie siūlomų reikšmingo neigiamo poveikio mažinimo priemonių paukščiams ir šikšnosparniams efektyvumą, kaip nurodyta Aprašo 3 priedo IV skyriuje (detali informacija pateikta šios išvados 3.1. pp., f) p.). Dėl to, PAV ataskaita ir PŪV neatitinka Saugomų teritorijų 24 str. 10, 14 d. bei sukels reikšmingą neigiamą poveikį PAST Labūnavos miškas ir Saugomų augalų, gyvūnų ir grybų rūšių įstatymo 15 ir 17 str. bei Laukinės gyvūnijos įstatymo 28 str. nuostatų ir gali sukelti reikšmingą neigiamą poveikį VE jautrioms paukščių ir šikšnosparnių rūšims.	Vadovaujantis LR Aprašu, planuojamos VE (10 vnt.) nepatenka į zonas, **kai poveikis paukščiams laikomas reikšmingu neigiamu**, taip pat vystytojas įsipareigoja iš anksto įdiegti poveikio mažinimo priemonės VE, kad būtų išvengiamas galimas reikšmingai neigiamas poveikis paukščiams ir šikšnosparniams. Todėl VE parkui numatytos poveikio mažinimo priemonės yra pakankamos, o VE parko poveikis jautrioms paukščių ir šikšnosparnių rūšims yra sumažintas iki minimalaus.