7 PRIEDAS

Triukšmo sklaidos modeliavimo rezultatai.

Triukšmo modeliavimo rezultatai (PŪV)

Planuojamos VE, 1 alternatyva

Project:

Planuojamos VE

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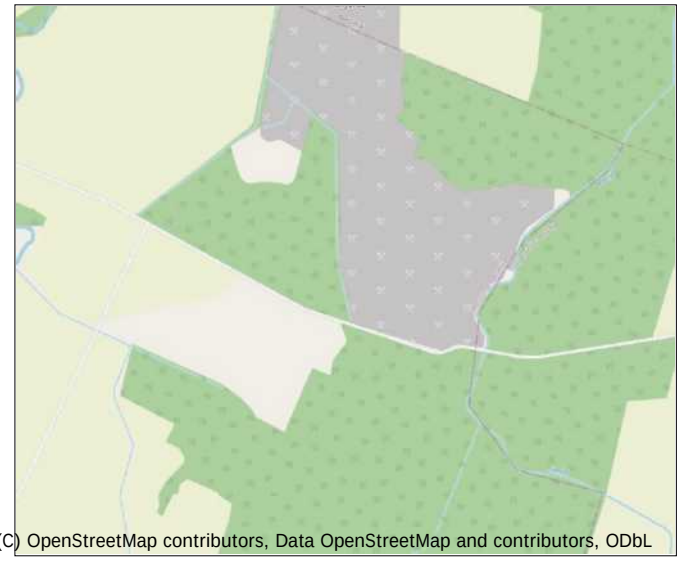
Calculated:
2023-01-12 00:18/3.5.584

DECIBEL - Main Result

Calculation: VE 1 alt

Noise calculation model:
ISO 9613-2 General
Wind speed (in 10 m height):
10,0 m/s
Ground attenuation:
General, Ground factor: 0,7
Meteorological coefficient, C0:
2,0 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:
Pure tones penalty is added to total noise impact at receptors
WTG catalogue
Height above ground level, when no value in NSA object:
1,5 m; 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 1:30 000
New WTG
Noise sensitive area

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data Creator	Name	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones
2	496 072	6 194 828	64,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
3	496 849	6 194 676	63,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
4	498 094	6 194 549	63,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
5	496 494	6 195 320	63,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
6	497 904	6 193 492	62,5	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
7	498 844	6 193 650	64,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
8	499 435	6 193 560	60,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
10	499 339	6 192 768	61,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
11	497 369	6 191 579	64,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
12	499 507	6 191 740	65,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
13	500 115	6 190 809	62,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
14	495 141	6 191 057	67,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
15	496 783	6 191 238	65,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
17	497 583	6 190 780	63,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
18	493 716	6 191 249	68,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
19	497 635	6 189 136	66,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
20	495 806	6 188 619	67,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
21	495 609	6 190 697	65,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
22	494 421	6 191 419	66,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
23	493 760	6 192 484	66,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
24	494 001	6 190 607	68,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
25	494 709	6 190 521	69,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
26	494 932	6 189 704	66,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
27	494 485	6 192 255	65,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
28	495 029	6 188 944	69,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
29	494 537	6 192 945	66,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
30	500 372	6 190 171	64,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
32	505 943	6 196 959	51,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
33	506 501	6 197 500	52,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
34	497 216	6 195 690	62,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
36	497 918	6 195 220	64,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
40	490 952	6 188 461	77,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
41	490 956	6 187 214	77,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
42	490 653	6 187 850	77,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
43	489 521	6 188 529	79,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
44	489 437	6 190 532	78,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
47	490 409	6 193 275	74,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
50	505 860	6 200 126	53,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
51	503 975	6 198 287	53,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
52	505 377	6 198 220	53,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
53	506 394	6 198 319	53,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h

To be continued on next page...

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Calculated:
2023-01-12 00:18/3.5.584

DECIBEL - Main Result

Calculation: VE 1 alt

...continued from previous page

	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	Pure tones	
			[m]					[kW]	[m]	[m]			[m/s]	[dB(A)]		
54	504 944	6 198 838	51,4	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	105	10,0	105,0	No	h
55	505 959	6 199 299	51,4	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
56	506 528	6 199 986	49,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
61	501 980	6 202 855	53,5	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
62	502 661	6 203 174	51,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
63	503 539	6 204 406	52,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
64	503 565	6 203 472	52,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
65	502 954	6 203 915	52,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
66	501 612	6 203 764	51,5	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
67	501 790	6 204 579	52,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
68	501 526	6 205 637	50,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
69	500 755	6 205 769	50,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
70	500 821	6 206 587	52,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
71	500 601	6 209 783	50,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
72	500 267	6 209 231	50,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
73	500 586	6 208 007	51,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
74	501 149	6 207 565	51,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
75	501 930	6 207 730	51,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
76	501 664	6 208 359	50,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
77	502 453	6 208 484	52,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
78	502 973	6 208 028	50,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
79	503 046	6 207 349	52,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
80	504 037	6 207 522	51,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
81	504 430	6 208 007	49,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
82	504 605	6 208 569	50,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
83	505 334	6 208 566	51,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
84	503 858	6 208 700	52,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
85	503 067	6 208 838	51,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
86	501 486	6 206 678	50,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
100	488 194	6 191 149	80,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
102	488 982	6 191 798	77,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
103	488 965	6 191 068	78,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
104	487 476	6 191 336	82,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
106	488 063	6 190 365	82,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
107	488 774	6 190 102	80,4	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
109	488 087	6 189 566	83,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
110	487 703	6 188 978	84,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
111	488 421	6 188 060	82,5	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
113	490 066	6 187 468	78,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
114	489 221	6 187 494	78,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
116	487 980	6 185 307	88,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
117	487 161	6 185 699	88,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
118	486 652	6 185 248	93,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
119	485 819	6 184 360	92,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
120	485 934	6 185 058	92,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
121	489 431	6 186 798	81,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	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]	
G01	Noise sensitive area: User defined (21)	485 672	6 183 700	94,5	1,5	45,0	36,9	409	Yes
G02	Noise sensitive area: User defined (67)	487 212	6 184 376	91,0	1,5	45,0	36,2	747	Yes
G03	Noise sensitive area: User defined (53)	485 622	6 184 862	94,0	1,5	45,0	43,7	71	Yes
G04	Noise sensitive area: User defined (54)	485 542	6 184 884	93,8	1,5	45,0	42,5	138	Yes
G05	Noise sensitive area: User defined (55)	485 899	6 185 796	93,0	1,5	45,0	38,1	456	Yes
G06	Noise sensitive area: User defined (56)	488 937	6 185 555	87,2	1,5	45,0	35,3	719	Yes
G07	Noise sensitive area: User defined (57)	489 702	6 185 941	85,0	1,5	45,0	35,9	622	Yes
G08	Noise sensitive area: User defined (58)	492 187	6 186 592	76,0	1,5	45,0	31,8	1 103	Yes
G09	Noise sensitive area: User defined (59)	488 781	6 187 019	85,3	1,5	45,0	40,5	340	Yes
G10	Noise sensitive area: User defined (60)	487 969	6 187 540	90,1	1,5	45,0	38,3	411	Yes

To be continued on next page...

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Calculated:
2023-01-12 00:18/3.5.584

DECIBEL - Main Result

Calculation: VE 1 alt

...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]	
G11	Noise sensitive area: User defined (61)	487 498	6 188 255	88,6	1,5	45,0	38,2	472	Yes
G12	Noise sensitive area: User defined (62)	485 934	6 188 217	90,3	1,5	45,0	29,9	1 650	Yes
G13	Noise sensitive area: User defined (63)	486 580	6 189 275	89,6	1,5	45,0	34,1	883	Yes
G14	Noise sensitive area: User defined (64)	484 702	6 189 624	93,3	1,5	45,0	26,2	2 791	Yes
G15	Noise sensitive area: User defined (65)	485 593	6 189 951	90,3	1,5	45,0	29,1	2 041	Yes
G16	Noise sensitive area: User defined (66)	485 642	6 190 219	87,7	1,5	45,0	29,3	1 872	Yes
G17	Noise sensitive area: User defined (68)	486 137	6 191 123	87,0	1,5	45,0	31,8	1 083	Yes
G18	Noise sensitive area: User defined (69)	486 667	6 191 358	85,3	1,5	45,0	36,0	537	Yes
G19	Noise sensitive area: User defined (70)	486 673	6 191 438	87,2	1,5	45,0	35,9	538	Yes
G20	Noise sensitive area: User defined (71)	487 076	6 191 915	82,7	1,5	45,0	37,1	432	Yes
G21	Noise sensitive area: User defined (72)	487 949	6 191 918	83,5	1,5	45,0	39,3	459	Yes
G22	Noise sensitive area: User defined (73)	488 192	6 192 080	81,6	1,5	45,0	38,5	553	Yes
G23	Noise sensitive area: User defined (74)	488 184	6 192 263	82,0	1,5	45,0	37,2	640	Yes
G24	Noise sensitive area: User defined (75)	491 809	6 192 980	73,8	1,5	45,0	31,8	1 174	Yes
G25	Noise sensitive area: User defined (76)	491 470	6 192 532	75,5	1,5	45,0	32,3	1 037	Yes
G26	Noise sensitive area: User defined (77)	489 858	6 190 558	81,6	1,5	45,0	42,0	140	Yes
G27	Noise sensitive area: User defined (78)	489 963	6 189 421	79,0	1,5	45,0	37,5	716	Yes
G28	Noise sensitive area: User defined (79)	491 828	6 189 400	77,0	1,5	45,0	33,4	1 010	Yes
G29	Noise sensitive area: User defined (80)	492 212	6 189 158	72,9	1,5	45,0	32,9	1 165	Yes
G30	Noise sensitive area: User defined (81)	495 870	6 187 713	69,7	1,5	45,0	34,8	639	Yes
G31	Noise sensitive area: User defined (82)	493 916	6 188 828	72,0	1,5	45,0	35,2	838	Yes
G32	Noise sensitive area: User defined (83)	493 823	6 189 518	71,9	1,5	45,0	37,0	801	Yes
G33	Noise sensitive area: User defined (84)	493 733	6 190 281	72,7	1,5	45,0	42,4	129	Yes
G34	Noise sensitive area: User defined (85)	496 419	6 189 418	68,7	1,5	45,0	37,0	734	Yes
G35	Noise sensitive area: User defined (86)	496 362	6 189 542	68,1	1,5	45,0	37,0	803	Yes
G36	Noise sensitive area: User defined (87)	496 319	6 189 984	68,2	1,5	45,0	37,6	713	Yes
G37	Noise sensitive area: User defined (88)	497 158	6 191 069	64,0	1,5	45,0	44,4	73	Yes
G38	Noise sensitive area: User defined (89)	495 715	6 191 326	70,0	1,5	45,0	41,5	291	Yes
G39	Noise sensitive area: User defined (90)	495 795	6 191 519	70,0	1,5	45,0	39,8	474	Yes
G40	Noise sensitive area: User defined (92)	492 683	6 191 108	69,0	1,5	45,0	35,5	755	Yes
G41	Noise sensitive area: User defined (91)	492 862	6 191 922	67,0	1,5	45,0	36,4	777	Yes
G42	Noise sensitive area: User defined (93)	493 311	6 192 931	66,9	1,5	45,0	38,6	355	Yes
G43	Noise sensitive area: User defined (94)	495 168	6 193 010	67,7	1,5	45,0	39,1	352	Yes
G44	Noise sensitive area: User defined (95)	495 293	6 192 865	68,3	1,5	45,0	38,3	475	Yes
G45	Noise sensitive area: User defined (96)	495 309	6 192 688	67,5	1,5	45,0	38,4	522	Yes
G46	Noise sensitive area: User defined (97)	497 950	6 191 890	63,7	1,5	45,0	39,0	378	Yes
G47	Noise sensitive area: User defined (98)	498 488	6 191 173	65,5	1,5	45,0	37,2	705	Yes
G48	Noise sensitive area: User defined (99)	498 990	6 190 050	68,5	1,5	45,0	34,6	1 074	Yes
G49	Noise sensitive area: User defined (100)	500 369	6 189 323	68,4	1,5	45,0	34,9	581	Yes
G50	Noise sensitive area: User defined (101)	499 863	6 190 203	63,2	1,5	45,0	41,0	227	Yes
G51	Noise sensitive area: User defined (102)	498 818	6 191 705	66,6	1,5	45,0	38,6	418	Yes
G52	Noise sensitive area: User defined (103)	498 802	6 191 815	65,0	1,5	45,0	38,6	437	Yes
G53	Noise sensitive area: User defined (105)	500 842	6 192 817	63,7	1,5	45,0	32,7	1 220	Yes
G54	Noise sensitive area: User defined (106)	500 365	6 194 261	61,3	1,5	45,0	33,5	884	Yes
G55	Noise sensitive area: User defined (104)	498 054	6 192 794	65,4	1,5	45,0	38,8	434	Yes
G56	Noise sensitive area: User defined (107)	497 191	6 193 580	66,0	1,5	45,0	38,7	437	Yes
G57	Noise sensitive area: User defined (108)	497 463	6 194 313	65,5	1,5	45,0	41,1	374	Yes
G58	Noise sensitive area: User defined (109)	496 083	6 194 100	67,0	1,5	45,0	38,6	441	Yes
G59	Noise sensitive area: User defined (110)	495 843	6 193 942	68,6	1,5	45,0	36,8	632	Yes
G60	Noise sensitive area: User defined (111)	494 846	6 194 294	68,0	1,5	45,0	34,1	1 059	Yes
G61	Noise sensitive area: User defined (112)	498 519	6 197 002	62,0	1,5	45,0	30,1	1 568	Yes
G62	Noise sensitive area: User defined (113)	505 813	6 195 949	55,4	1,5	45,0	33,3	751	Yes
G63	Noise sensitive area: User defined (114)	507 016	6 197 225	55,4	1,5	45,0	39,0	309	Yes
G64	Noise sensitive area: User defined (115)	507 008	6 197 272	54,5	1,5	45,0	39,4	281	Yes
G65	Noise sensitive area: User defined (116)	507 270	6 198 194	54,3	1,5	45,0	36,5	604	Yes
G67	Noise sensitive area: User defined (117)	507 424	6 199 512	53,0	1,5	45,0	34,8	737	Yes
G68	Noise sensitive area: User defined (118)	506 820	6 200 382	54,0	1,5	45,0	40,3	217	Yes
G69	Noise sensitive area: User defined (119)	504 735	6 199 995	56,0	1,5	45,0	35,2	854	Yes
G70	Noise sensitive area: User defined (120)	505 132	6 199 013	54,3	1,5	45,0	44,3	29	Yes
G71	Noise sensitive area: User defined (121)	504 303	6 199 093	55,0	1,5	45,0	37,8	472	Yes
G72	Noise sensitive area: User defined (122)	504 249	6 199 060	53,9	1,5	45,0	37,7	510	Yes
G73	Noise sensitive area: User defined (123)	503 097	6 198 254	55,0	1,5	45,0	34,2	617	Yes
G74	Noise sensitive area: User defined (124)	499 894	6 206 136	52,0	1,5	45,0	36,7	649	Yes

To be continued on next page...

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Calculated:
2023-01-12 00:18/3.5.584

DECIBEL - Main Result

Calculation: VE 1 alt

...continued from previous page

Noise sensitive area No.	Name	Y	X	Z [m]	Immission height [m]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Distance to noise demand [m]	Demands fulfilled ? Noise
G75	Noise sensitive area: User defined (125)	499 940	6 206 218	51,0	1,5	45,0	37,1	641	Yes
G76	Noise sensitive area: User defined (126)	502 032	6 206 124	52,7	1,5	45,0	40,1	410	Yes
G77	Noise sensitive area: User defined (127)	502 281	6 206 209	52,8	1,5	45,0	38,6	624	Yes
G78	Noise sensitive area: User defined (128)	502 361	6 205 798	54,0	1,5	45,0	38,0	564	Yes
G79	Noise sensitive area: User defined (129)	504 880	6 207 162	51,5	1,5	45,0	37,5	611	Yes
G80	Noise sensitive area: User defined (130)	504 913	6 207 807	51,6	1,5	45,0	41,7	209	Yes
G81	Noise sensitive area: User defined (131)	504 981	6 207 536	52,1	1,5	45,0	39,2	412	Yes
G82	Noise sensitive area: User defined (132)	505 181	6 207 578	50,8	1,5	45,0	38,1	553	Yes
G83	Noise sensitive area: User defined (133)	505 320	6 207 789	50,3	1,5	45,0	38,7	492	Yes
G84	Noise sensitive area: User defined (134)	505 949	6 207 850	53,0	1,5	45,0	35,1	670	Yes
G85	Noise sensitive area: User defined (135)	506 005	6 207 890	51,7	1,5	45,0	34,9	679	Yes
G86	Noise sensitive area: User defined (137)	501 267	6 208 704	55,3	1,5	45,0	41,6	225	Yes
G87	Noise sensitive area: User defined (136)	499 627	6 210 236	52,0	1,5	45,0	34,2	788	Yes

Distances (m)

WTG	G01	G02	G03	G04	G05	G06	G07	G08	G09	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G20	G21	G22
2	15233	13704	14437	14473	13546	11637	10923	9071	10677	10900	10805	12099	10994	12499	11558	11402	10599	10021	9988	9430	8571	8307
3	15667	14106	14910	14950	14043	12010	11274	9294	11119	11394	11344	12680	11601	13151	12207	12061	11283	10706	10676	10132	9262	9002
4	16494	14896	15792	15836	14959	12768	12007	9867	11975	12316	12325	13709	12664	14266	13321	13184	12437	11863	11836	11307	10427	10172
5	15882	14353	15082	15118	14189	12285	11570	9698	11325	11544	11441	12722	11609	13091	12151	11991	11171	10592	10557	9988	9139	8872
6	15669	14049	15012	15060	14211	11906	11132	8916	11186	11582	11649	13081	12085	13756	12812	12693	12003	11438	11418	10924	10030	9785
7	16508	14874	15877	15928	15094	12723	11941	9655	12052	12474	12562	14007	13022	14703	13760	13643	12956	12391	12371	11877	10983	10738
8	16930	15285	16325	16377	15559	13130	12341	10005	12503	12950	13061	14521	13552	15249	14307	14194	13520	12957	12938	12451	11554	11312
10	16400	14743	15835	15890	15097	12585	11789	9398	12023	12513	12668	14158	13230	14971	14034	13934	13305	12751	12737	12277	11376	11142
11	14101	12447	13534	13589	12802	10290	9496	7142	9725	10228	10410	11920	11034	12818	11890	11808	11243	10706	10699	10287	9385	9170
12	15999	14326	15499	15558	14809	12171	11367	8893	11721	12274	12498	14025	13163	14957	14031	13951	13386	12848	12840	12421	11518	11299
13	16094	14411	15670	15734	15038	12273	11466	8919	11954	12572	12865	14420	13625	15461	14551	14488	13985	13462	13460	13077	12178	11972
14	11991	10366	11358	11409	10588	8222	7450	5312	7533	7986	8135	9636	8746	10537	9613	9537	9006	8481	8478	8100	7205	7006
15	13425	11772	12856	12911	12125	9615	8822	6486	9047	9555	9746	11263	10392	12189	11266	11189	10648	10118	10114	9720	8820	8612
17	13854	12183	13348	13407	12662	10027	9224	6777	9574	10140	10389	11930	11108	12934	12021	11956	11453	10933	10932	10559	9663	9463
18	11032	9463	10309	10353	9479	7369	6643	4872	6496	6840	6900	8352	7405	9159	8228	8141	7582	7051	7048	6663	5767	5568
19	13133	11449	12753	12820	12167	9325	8519	5949	9105	9785	10161	11739	11058	12944	12071	12043	11670	11193	11203	10914	10047	9880
20	11259	9575	10857	10923	10267	7441	6634	4087	7206	7898	8300	9882	9251	11152	10300	10289	9990	9543	9561	9329	8495	8355
21	12152	10506	11569	11623	10834	8352	7565	5299	7757	8263	8464	9990	9143	10961	10046	9981	9484	8968	8969	8611	7721	7529
22	11668	10077	10973	11019	10160	7962	7217	5284	7151	7528	7609	9071	8130	9883	8951	8862	8291	7756	7750	7351	6451	6245
23	11942	10424	11146	11184	10264	8380	7690	6072	7386	7616	7557	8912	7864	9496	8552	8429	7743	7182	7164	6692	5791	5556
24	10820	9213	10159	10209	9375	7085	6330	4371	6333	6766	6910	8415	7541	9352	8436	8370	7883	7374	7377	7040	6158	5979
25	11321	9690	10705	10758	9951	7543	6768	4627	6885	7366	7552	9073	8225	10047	9135	9073	8594	8087	8090	7751	6868	6686
26	11033	9374	10496	10554	9801	7216	6421	4103	6712	7284	7563	9121	8364	10232	9343	9305	8910	8430	8441	8156	7295	7135
27	12283	10723	11540	11581	10690	8634	7909	6078	7738	8044	8051	9455	8448	10129	9187	9076	8424	7869	7855	7402	6499	6271
28	10722	9047	10257	10320	9620	6895	6089	3636	6540	7188	7548	9126	8457	10352	9491	9474	9157	8705	8722	8487	7653	7513
29	12810	11275	12031	12069	11156	9209	8500	6742	8255	8508	8459	9814	8762	10377	9432	9304	8594	8028	8007	7513	6618	6374
30	16056	14371	15681	15748	15086	12252	11446	8869	12015	12671	13006	14574	13825	15683	14785	14734	14271	13760	13762	13403	12510	12313
32	24223	22563	23654	23708	22901	20405	19606	17173	19837	20295	20397	21838	20835	22472	21527	21394	20649	20074	20047	19509	18635	18377
33	24987	23328	24411	24464	23651	21170	20372	17944	20591	21041	21134	22567	21555	23178	22233	22097	21340	20764	20735	20191	19321	19061
34	16646	15104	15861	15898	14975	13023	12297	10358	12091	12328	12238	13528	12418	13901	12962	12801	11979	11399	11364	10792	9946	9679
36	16814	15238	16076	16117	15219	13127	12380	10317	12274	12570	12534	13877	12801	14347	13404	13255	12470	11892	11861	11310	10445	10183
40	7109	5538	6431	6481	5668	3474	2805	2239	2605	3115	3444	5025	4446	6358	5561	5591	5500	5168	5209	5193	4567	4551
41	6342	4693	5831	5893	5217	2541	1770	1379	2183	2980	3578	5120	4831	6703	6014	6097	6200	5956	6008	6097	5575	5598
42	6482	4887	5851	5905	5136	2801	2124	1985	2048	2687	3155	4733	4311	6210	5474	5536	5572	5303	5352	5416	4876	4895
43	6176	4753	5348	5385	4483	2987	2595	3296	1662	1839	2028	3601	3032	4943	4174	4226	4259	4010	4062	4177	3730	3793
44	7802	6547	6821	6839	5840	4963	4599	4804	3544	3330	2991	4193	3119	4820	3888	3808	3353	2891	2910	2735	2018	1986
47	10684	9458	9664	9676	8657	7816	7369	6908	6438	6230	5802	6738	5523	6764	5845	5657	4776	4197	4156	3570	2744	2472
50	26030	24410	25352	25397	24523	22265	21486	19192	21530	21878	21869	23214	22125	23618	22680	22517	21678	21098	21060	20473	19643	19374
51	23408	21784	22742	22789	21924	19636	18856	16558	18918	19283	19294	20662	19592	21129	20186	20032	19221	18642	18607	18035	17189	16922
52	24479	22838	23851	23901	23057	20684	19895	17535	20024	20426	20471	21867	20819	22389	21445	21298	20506	19928	19895	19333	18477	18213
53	25362	23713	24755	24806	23974	21556	20763	18372	20930	21350	21412	22821	21784	23370	22425	22280	21497	20919	20887	20329	19470	19207
54	24510	22882	23850	23897	23035	20733	19951	17636	20025	20395	20409	21777	20707	22239	21297	21141	20326	19747	19711	19137	18293	18026
55	25594	23962	24944	24992	24135	21810	21026	18691	21118	21496	21516	22889	21820	23354	22412	22257	21441	20861	20826	20250	19407	19140
56	26465	24836	25807	25854	24991	22686	21903	19576	21982	22351	22360	23721	22644	24159	23219	23060	22233	21653	21616	21034	20198	19930
61	25163	23661	24315	24346	23384	21606	20893	18948	20610	20762	20570	21713	20526	21752	20854	20650	19704	19138	19086	18449	17721	17446
62	25850	24338	25012	25043	24086	22274	21554	19576	21294	21460	21278	22433	21250	22488	21587	21385	20442	19875	19823	19188	18456	18181
63	27355	25847	26512	26542	25582	23785	23066	21086	22801	22959	22769	23910	22722	23934	23039	22834	21881	21318	21264	20626	19905	19631
64	26672	25147	25850	25883	24933	23069	22341	20318	22115	22300	22135	23309	22132	23391	22487	22287	21350	20782	20731	20098	19358	19083
65	26602	25098	25755	25786	24824	23040	22324	20360	22049	22202	22009	23148	21959	23171	22276	22071	21119	20555	20502	19863	19142	18868
66	25632	24157	24755	24783	23808	22128	21430	19554	21089	21204	20976	22072	20870	22031	21147	20935	19970	19411	19356	18712	18012	17738
67	26383	24920	25495	25521	24541	22902	22209	20356	21847	21945	21702	22775	21568	22695	21818	21603	20629	20074	20017	19370	18686	18413
68	27073	25637	26159	26182	25192	23646	22967	21179	22554	22617	22342	23368	22150	23211	22350	22128	21138	20592	20532	19881	19227	18955
69	26738	25326	25803	25824	24826	23360	22696	20973	22237	22271	21971	22961	21737	22751	21901	21675	20676	20136	20074	19421	18787	18518

To be continued on next page...

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Planuojamos VE

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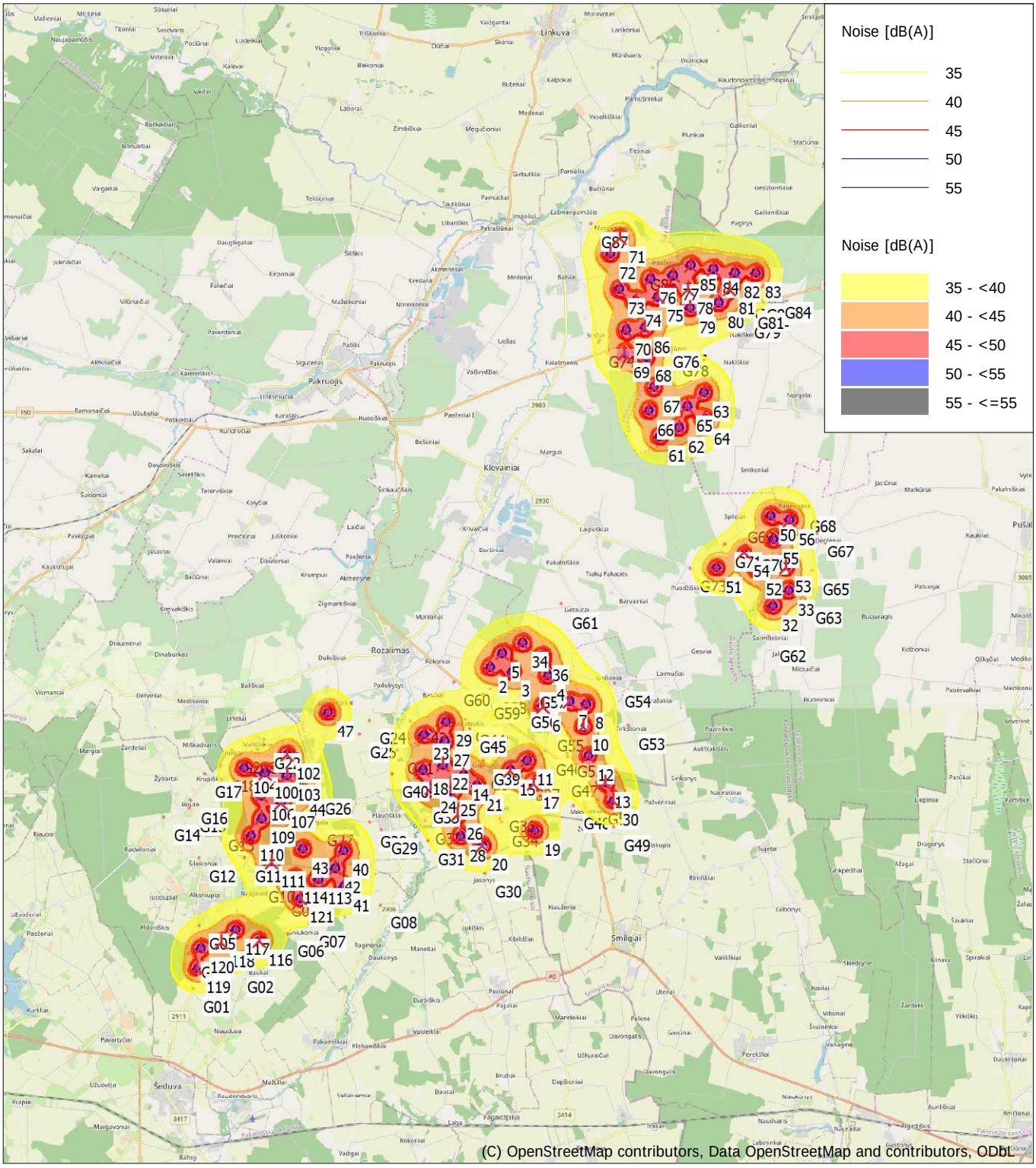
Calculated:
2023-01-12 00:18/3.5.584

DECIBEL - Map 10,0 m/s

Calculation: VE 1 alt



0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 496 173 North: 6 197 072

New WTG Noise sensitive area

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

Triukšmo modeliavimo rezultatai (PŪV)

Planuojamos VE, 2 alternatyva

Project:

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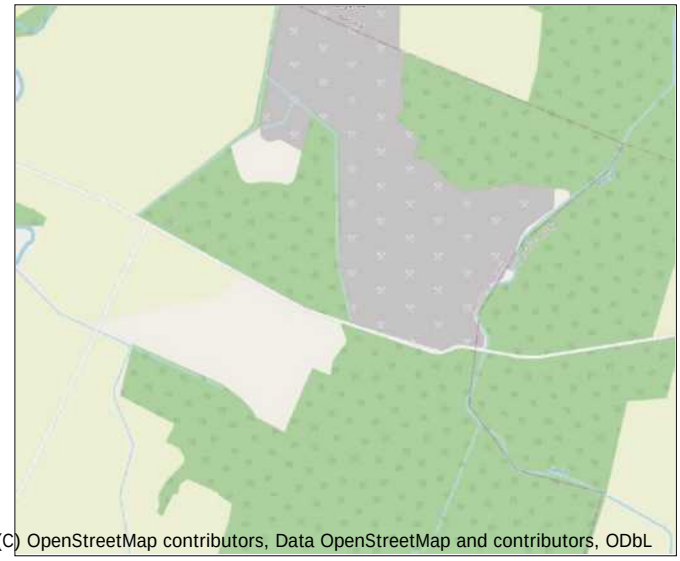
Calculated:
2023-01-10 18:32/3.5.584

DECIBEL - Main Result

Calculation: VE 2 alt

Noise calculation model:
ISO 9613-2 General
Wind speed (in 10 m height):
10,0 m/s
Ground attenuation:
General, Ground factor: 0,7
Meteorological coefficient, C0:
2,0 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:
Pure tones penalty is added to total noise impact at receptors
WTG catalogue
Height above ground level, when no value in NSA object:
1,5 m; 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 1:30 000

New WTG Noise sensitive area

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data Creator	Name	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones
1	495 390	6 194 097	63,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
2	496 072	6 194 828	64,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
3	496 849	6 194 676	63,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
4	498 094	6 194 549	63,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
5	496 494	6 195 320	63,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
6	497 904	6 193 492	62,5	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
7	498 844	6 193 650	64,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
8	499 435	6 193 560	60,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
10	499 339	6 192 768	61,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
11	497 369	6 191 579	64,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
12	499 507	6 191 740	65,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
13	500 115	6 190 809	62,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
14	495 141	6 191 057	67,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
15	496 783	6 191 238	65,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
16	498 090	6 189 790	64,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
17	497 583	6 190 780	63,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
18	493 716	6 191 249	68,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
19	497 635	6 189 136	66,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
20	495 806	6 188 619	67,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
21	495 609	6 190 697	65,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
22	494 421	6 191 419	66,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
23	493 760	6 192 484	66,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
24	494 001	6 190 607	68,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
25	494 709	6 190 521	69,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
26	494 932	6 189 704	66,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
27	494 485	6 192 255	65,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
28	495 029	6 188 944	69,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
29	494 537	6 192 945	66,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
30	500 372	6 190 171	64,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
32	505 943	6 196 959	51,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
33	506 501	6 197 500	52,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
34	497 216	6 195 690	62,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
35	497 821	6 196 141	63,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
36	497 918	6 195 220	64,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
40	490 952	6 188 461	77,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
41	490 956	6 187 214	77,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
42	490 653	6 187 850	77,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
43	489 521	6 188 529	79,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
44	489 437	6 190 532	78,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
46	489 996	6 192 550	75,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
47	490 409	6 193 275	74,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h

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DECIBEL - Main Result

Calculation: VE 2 alt

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	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	Pure tones	
			[m]					[kW]	[m]	[m]			[m/s]	[dB(A)]		
50	505 860	6 200 126	53,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
51	503 975	6 198 287	53,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
52	505 377	6 198 220	53,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
53	506 394	6 198 319	53,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
54	504 944	6 198 838	51,4	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	105	10,0	105,0	No	h
55	505 959	6 199 299	51,4	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
56	506 528	6 199 986	49,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
61	501 980	6 202 855	53,5	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
62	502 661	6 203 174	51,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
63	503 539	6 204 406	52,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
64	503 565	6 203 472	52,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
65	502 954	6 203 915	52,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
66	501 612	6 203 764	51,5	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
67	501 790	6 204 579	52,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
68	501 526	6 205 637	50,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
69	500 755	6 205 769	50,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
70	500 821	6 206 587	52,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
71	500 601	6 209 783	50,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
72	500 267	6 209 231	50,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
73	500 586	6 208 007	51,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
74	501 149	6 207 565	51,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
75	501 930	6 207 730	51,2	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
76	501 664	6 208 359	50,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
77	502 453	6 208 484	52,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
78	502 973	6 208 028	50,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
79	503 046	6 207 349	52,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
80	504 037	6 207 522	51,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
81	504 430	6 208 007	49,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
82	504 605	6 208 569	50,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
83	505 334	6 208 566	51,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
84	503 858	6 208 700	52,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
85	503 067	6 208 838	51,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
86	501 486	6 206 678	50,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
100	488 194	6 191 149	80,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
101	489 205	6 192 470	76,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
102	488 982	6 191 798	77,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
103	488 965	6 191 068	78,8	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
104	487 476	6 191 336	82,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
105	486 343	6 190 728	84,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
106	488 063	6 190 365	82,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
107	488 774	6 190 102	80,4	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
108	486 368	6 189 932	90,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
109	488 087	6 189 566	83,1	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
110	487 703	6 188 978	84,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
111	488 421	6 188 060	82,5	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
113	490 066	6 187 468	78,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
114	489 221	6 187 494	78,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
116	487 980	6 185 307	88,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
117	487 161	6 185 699	88,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
118	486 652	6 185 248	93,0	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
119	485 819	6 184 360	92,3	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
120	485 934	6 185 058	92,9	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
121	489 431	6 186 798	81,6	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
122	485 710	6 189 190	87,7	VE model VE model 8...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h

h) Generic octave distribution used

Calculation Results

Sound level

Noise sensitive area No.	Name	Y	X	Z [m]	Immission height [m]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled ? Noise
G01	Noise sensitive area: User defined (21)	485 672	6 183 700	94,5	1,5	45,0	36,9	Yes
G02	Noise sensitive area: User defined (67)	487 212	6 184 376	91,0	1,5	45,0	36,2	Yes
G03	Noise sensitive area: User defined (53)	485 622	6 184 862	94,0	1,5	45,0	43,7	Yes
G04	Noise sensitive area: User defined (54)	485 542	6 184 884	93,8	1,5	45,0	42,5	Yes
G05	Noise sensitive area: User defined (55)	485 899	6 185 796	93,0	1,5	45,0	38,1	Yes

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DECIBEL - Main Result

Calculation: VE 2 alt

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Noise sensitive area No.	Name	Y	X	Z [m]	Immission height [m]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled ? Noise
G06	Noise sensitive area: User defined (56)	488 937	6 185 555	87,2	1,5	45,0	35,3	Yes
G07	Noise sensitive area: User defined (57)	489 702	6 185 941	85,0	1,5	45,0	35,9	Yes
G08	Noise sensitive area: User defined (58)	492 187	6 186 592	76,0	1,5	45,0	31,9	Yes
G09	Noise sensitive area: User defined (59)	488 781	6 187 019	85,3	1,5	45,0	40,6	Yes
G10	Noise sensitive area: User defined (60)	487 969	6 187 540	90,1	1,5	45,0	38,4	Yes
G11	Noise sensitive area: User defined (61)	487 489	6 188 263	88,6	1,5	45,0	38,5	Yes
G12	Noise sensitive area: User defined (62)	485 885	6 188 268	90,3	1,5	45,0	34,8	Yes
G13	Noise sensitive area: User defined (63)	486 516	6 189 322	89,6	1,5	45,0	39,9	Yes
G14	Noise sensitive area: User defined (64)	484 702	6 189 624	93,3	1,5	45,0	33,1	Yes
G15	Noise sensitive area: User defined (65)	485 587	6 189 921	90,3	1,5	45,0	38,8	Yes
G16	Noise sensitive area: User defined (66)	485 642	6 190 208	87,7	1,5	45,0	38,4	Yes
G17	Noise sensitive area: User defined (68)	486 123	6 191 095	87,0	1,5	45,0	41,4	Yes
G18	Noise sensitive area: User defined (69)	486 632	6 191 322	85,3	1,5	45,0	39,3	Yes
G19	Noise sensitive area: User defined (70)	486 648	6 191 404	87,2	1,5	45,0	38,7	Yes
G20	Noise sensitive area: User defined (71)	487 076	6 191 915	82,7	1,5	45,0	37,9	Yes
G21	Noise sensitive area: User defined (72)	487 959	6 191 919	83,5	1,5	45,0	39,8	Yes
G22	Noise sensitive area: User defined (73)	488 202	6 192 086	81,6	1,5	45,0	39,4	Yes
G23	Noise sensitive area: User defined (74)	488 195	6 192 269	82,0	1,5	45,0	38,4	Yes
G24	Noise sensitive area: User defined (75)	491 809	6 192 980	73,8	1,5	45,0	32,7	Yes
G25	Noise sensitive area: User defined (76)	491 461	6 192 514	75,5	1,5	45,0	33,7	Yes
G26	Noise sensitive area: User defined (77)	489 858	6 190 558	81,6	1,5	45,0	42,1	Yes
G27	Noise sensitive area: User defined (78)	489 957	6 189 431	79,0	1,5	45,0	37,6	Yes
G28	Noise sensitive area: User defined (79)	491 828	6 189 400	77,0	1,5	45,0	33,6	Yes
G29	Noise sensitive area: User defined (80)	492 212	6 189 158	72,9	1,5	45,0	33,0	Yes
G30	Noise sensitive area: User defined (81)	495 870	6 187 713	69,7	1,5	45,0	34,9	Yes
G31	Noise sensitive area: User defined (82)	493 916	6 188 828	72,0	1,5	45,0	35,2	Yes
G32	Noise sensitive area: User defined (83)	493 823	6 189 518	71,9	1,5	45,0	37,0	Yes
G33	Noise sensitive area: User defined (84)	493 733	6 190 281	72,7	1,5	45,0	42,4	Yes
G34	Noise sensitive area: User defined (85)	496 419	6 189 418	68,7	1,5	45,0	37,2	Yes
G35	Noise sensitive area: User defined (86)	496 362	6 189 542	68,1	1,5	45,0	37,3	Yes
G36	Noise sensitive area: User defined (87)	496 324	6 189 988	68,2	1,5	45,0	37,9	Yes
G37	Noise sensitive area: User defined (88)	497 158	6 191 069	64,0	1,5	45,0	44,4	Yes
G38	Noise sensitive area: User defined (89)	495 715	6 191 326	70,0	1,5	45,0	41,5	Yes
G39	Noise sensitive area: User defined (90)	495 795	6 191 519	70,0	1,5	45,0	39,9	Yes
G40	Noise sensitive area: User defined (92)	492 683	6 191 108	69,0	1,5	45,0	35,7	Yes
G41	Noise sensitive area: User defined (91)	492 862	6 191 922	67,0	1,5	45,0	36,5	Yes
G42	Noise sensitive area: User defined (93)	493 311	6 192 931	66,9	1,5	45,0	38,7	Yes
G43	Noise sensitive area: User defined (94)	495 164	6 193 023	67,7	1,5	45,0	39,7	Yes
G44	Noise sensitive area: User defined (95)	495 292	6 192 873	68,3	1,5	45,0	38,8	Yes
G45	Noise sensitive area: User defined (96)	495 308	6 192 697	67,5	1,5	45,0	38,8	Yes
G46	Noise sensitive area: User defined (97)	497 950	6 191 890	63,7	1,5	45,0	39,1	Yes
G47	Noise sensitive area: User defined (98)	498 488	6 191 152	65,5	1,5	45,0	37,6	Yes
G48	Noise sensitive area: User defined (99)	498 926	6 190 005	68,5	1,5	45,0	36,9	Yes
G49	Noise sensitive area: User defined (100)	500 369	6 189 323	68,4	1,5	45,0	35,1	Yes
G50	Noise sensitive area: User defined (101)	499 863	6 190 203	63,2	1,5	45,0	41,1	Yes
G51	Noise sensitive area: User defined (102)	498 818	6 191 705	66,6	1,5	45,0	38,7	Yes
G52	Noise sensitive area: User defined (103)	498 802	6 191 815	65,0	1,5	45,0	38,7	Yes
G53	Noise sensitive area: User defined (105)	500 842	6 192 817	63,7	1,5	45,0	32,8	Yes
G54	Noise sensitive area: User defined (106)	500 365	6 194 261	61,3	1,5	45,0	33,7	Yes
G55	Noise sensitive area: User defined (104)	498 054	6 192 794	65,4	1,5	45,0	38,9	Yes
G56	Noise sensitive area: User defined (107)	497 188	6 193 593	66,0	1,5	45,0	38,8	Yes
G57	Noise sensitive area: User defined (108)	497 463	6 194 313	65,5	1,5	45,0	41,3	Yes
G58	Noise sensitive area: User defined (109)	496 032	6 194 090	67,0	1,5	45,0	40,5	Yes
G59	Noise sensitive area: User defined (110)	495 788	6 193 928	68,6	1,5	45,0	41,9	Yes
G60	Noise sensitive area: User defined (111)	494 846	6 194 294	68,0	1,5	45,0	39,1	Yes
G61	Noise sensitive area: User defined (112)	498 519	6 197 002	62,0	1,5	45,0	33,3	Yes
G62	Noise sensitive area: User defined (113)	505 813	6 195 949	55,4	1,5	45,0	33,3	Yes
G63	Noise sensitive area: User defined (114)	507 016	6 197 225	55,4	1,5	45,0	39,0	Yes
G64	Noise sensitive area: User defined (115)	507 008	6 197 272	54,5	1,5	45,0	39,4	Yes
G65	Noise sensitive area: User defined (116)	507 270	6 198 194	54,3	1,5	45,0	36,5	Yes
G67	Noise sensitive area: User defined (117)	507 424	6 199 512	53,0	1,5	45,0	34,8	Yes
G68	Noise sensitive area: User defined (118)	506 820	6 200 382	54,0	1,5	45,0	40,3	Yes
G69	Noise sensitive area: User defined (119)	504 735	6 199 995	56,0	1,5	45,0	35,2	Yes
G70	Noise sensitive area: User defined (120)	505 132	6 199 013	54,3	1,5	45,0	44,3	Yes
G71	Noise sensitive area: User defined (121)	504 303	6 199 093	55,0	1,5	45,0	37,8	Yes

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DECIBEL - Main Result

Calculation: VE 2 alt

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Noise sensitive area						Demands	Sound level	Demands fulfilled ?
No.	Name	Y	X	Z [m]	Immission height [m]	Noise [dB(A)]	From WTGs [dB(A)]	Noise
G72	Noise sensitive area: User defined (122)	504 249	6 199 060	53,9	1,5	45,0	37,7	Yes
G73	Noise sensitive area: User defined (123)	503 097	6 198 254	55,0	1,5	45,0	34,2	Yes
G74	Noise sensitive area: User defined (124)	499 894	6 206 136	52,0	1,5	45,0	36,7	Yes
G75	Noise sensitive area: User defined (125)	499 940	6 206 218	51,0	1,5	45,0	37,1	Yes
G76	Noise sensitive area: User defined (126)	502 032	6 206 124	52,7	1,5	45,0	40,1	Yes
G77	Noise sensitive area: User defined (127)	502 281	6 206 209	52,8	1,5	45,0	38,6	Yes
G78	Noise sensitive area: User defined (128)	502 361	6 205 798	54,0	1,5	45,0	38,0	Yes
G79	Noise sensitive area: User defined (129)	504 880	6 207 162	51,5	1,5	45,0	37,5	Yes
G80	Noise sensitive area: User defined (130)	504 913	6 207 807	51,6	1,5	45,0	41,7	Yes
G81	Noise sensitive area: User defined (131)	504 981	6 207 536	52,1	1,5	45,0	39,2	Yes
G82	Noise sensitive area: User defined (132)	505 181	6 207 578	50,8	1,5	45,0	38,1	Yes
G83	Noise sensitive area: User defined (133)	505 320	6 207 789	50,3	1,5	45,0	38,7	Yes
G84	Noise sensitive area: User defined (134)	505 949	6 207 850	53,0	1,5	45,0	35,1	Yes
G85	Noise sensitive area: User defined (135)	506 005	6 207 890	51,7	1,5	45,0	34,9	Yes
G86	Noise sensitive area: User defined (137)	501 267	6 208 704	55,3	1,5	45,0	41,6	Yes
G87	Noise sensitive area: User defined (136)	499 627	6 210 236	52,0	1,5	45,0	34,2	Yes

Distances (m)

WTG	G01	G02	G03	G04	G05	G06	G07	G08	G09	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G20	G21	G22
1	14234	12706	13439	13476	12552	10643	9933	8127	9677	9905	9821	11132	10041	11582	10638	10491	9716	9140	9111	8573	7698	7440
2	15233	13704	14437	14473	13546	11637	10923	9071	10677	10900	10805	12099	10994	12499	11558	11402	10599	10021	9988	9430	8571	8307
3	15667	14106	14910	14950	14043	12010	11274	9294	11119	11394	11344	12680	11601	13151	12207	12061	11283	10706	10676	10132	9262	9002
4	16494	14896	15792	15836	14959	12768	12007	9867	11975	12316	12325	13709	12664	14266	13321	13184	12437	11863	11836	11307	10427	10172
5	15882	14353	15082	15118	14189	12285	11570	9698	11325	11544	11441	12722	11609	13091	12151	11991	11171	10592	10557	9988	9139	8872
6	15669	14049	15012	15060	14211	11906	11132	8916	11186	11582	11649	13081	12085	13756	12812	12693	12003	11438	11418	10924	10030	9785
7	16508	14874	15877	15928	15094	12723	11941	9655	12052	12474	12562	14007	13022	14703	13760	13643	12956	12391	12371	11877	10983	10738
8	16930	15285	16325	16377	15559	13130	12341	10005	12503	12950	13061	14521	13552	15249	14307	14194	13520	12957	12938	12451	11554	11312
10	16400	14743	15835	15890	15097	12585	11789	9398	12023	12513	12668	14158	13230	14971	14034	13934	13305	12751	12737	12277	11376	11142
11	14101	12447	13534	13589	12802	10290	9496	7142	9725	10228	10410	11920	11034	12818	11890	11808	11243	10706	10699	10287	9385	9170
12	15999	14326	15499	15558	14809	12171	11367	8893	11721	12274	12498	14025	13163	14957	14031	13951	13386	12848	12840	12421	11518	11299
13	16094	14411	15670	15734	15038	12273	11466	8919	11954	12572	12865	14420	13625	15461	14551	14488	13985	13462	13460	13077	12178	11972
14	11991	10366	11358	11409	10588	8222	7450	5312	7533	7986	8135	9636	8746	10537	9613	9537	9006	8481	8478	8100	7205	7006
15	13425	11772	12856	12911	12125	9615	8822	6486	9047	9555	9746	11263	10392	12189	11266	11189	10648	10118	10114	9720	8820	8612
16	13826	12142	13410	13474	12792	10006	9199	6653	9715	10359	10691	12260	11524	13391	12500	12457	12030	11532	11538	11210	10328	10145
17	13854	12183	13348	13407	12662	10027	9224	6777	9574	10140	10389	11930	11108	12934	12021	11956	11453	10933	10932	10559	9663	9463
18	11032	9463	10309	10353	9479	7369	6643	4872	6496	6840	6900	8352	7405	9159	8228	8141	7582	7051	7048	6663	5767	5568
19	13133	11449	12753	12820	12167	9325	8519	5949	9105	9785	10161	11739	11058	12944	12071	12043	11670	11193	11203	10914	10047	9880
20	11259	9575	10857	10923	10267	7441	6634	4087	7206	7898	8300	9882	9251	11152	10300	10289	9990	9543	9561	9329	8495	8355
21	12152	10506	11569	11623	10834	8352	7565	5299	7757	8263	8464	9990	9143	10961	10046	9981	9484	8968	8969	8611	7721	7529
22	11668	10077	10973	11019	10160	7962	7217	5284	7151	7528	7609	9071	8130	9883	8951	8862	8291	7756	7750	7351	6451	6245
23	11942	10424	11146	11184	10264	8380	7690	6072	7386	7616	7557	8912	7864	9496	8552	8429	7743	7182	7164	6692	5791	5556
24	10820	9213	10159	10209	9375	7085	6330	4371	6333	6766	6910	8415	7541	9352	8436	8370	7883	7374	7377	7040	6158	5979
25	11321	9690	10705	10758	9951	7543	6768	4627	6885	7366	7552	9073	8225	10047	9135	9073	8594	8087	8090	7751	6868	6686
26	11033	9374	10496	10554	9801	7216	6421	4103	6712	7284	7563	9121	8364	10232	9343	9305	8910	8430	8441	8156	7295	7135
27	12283	10723	11540	11581	10690	8634	7909	6078	7738	8044	8051	9455	8448	10129	9187	9076	8424	7869	7855	7402	6499	6271
28	10722	9047	10257	10320	9620	6895	6089	3636	6540	7188	7548	9126	8457	10352	9491	9474	9157	8705	8722	8487	7653	7513
29	12810	11275	12031	12069	11156	9209	8500	6742	8255	8508	8459	9814	8762	10377	9432	9304	8594	8028	8007	7513	6618	6374
30	16056	14371	15681	15748	15086	12252	11446	8869	12015	12671	13006	14574	13825	15683	14785	14734	14271	13760	13762	13403	12510	12313
32	24223	22563	23654	23708	22901	20405	19606	17173	19837	20295	20397	21838	20835	22472	21527	21394	20649	20074	20047	19509	18635	18377
33	24987	23328	24411	24464	23651	21170	20372	17944	20591	21041	21134	22567	21555	23178	22233	22097	21340	20764	20735	20191	19321	19061
34	16646	15104	15861	15898	14975	13023	12297	10358	12091	12328	12238	13528	12418	13901	12962	12801	11979	11399	11364	10792	9946	9679
35	17391	15844	16612	16649	15728	13756	13025	11049	12837	13081	12993	14282	13169	14643	13705	13542	12711	12132	12095	11518	10677	10409
36	16814	15238	16076	16117	15219	13127	12380	10317	12274	12570	12534	13877	12801	14347	13404	13255	12470	11892	11861	11310	10445	10183
40	7109	5538	6431	6481	5668	3474	2805	2239	2605	3115	3444	5025	4446	6358	5561	5591	5500	5168	5209	5193	4567	4551
41	6342	4693	5831	5893	5217	2541	1770	1379	2183	2980	3578	5120	4831	6703	6014	6097	6200	5956	6008	6097	5575	5598
42	6482	4887	5851	5905	5136	2801	2124	1985	2048	2687	3155	4733	4311	6210	5474	5536	5572	5303	5352	5416	4876	4895
43	6176	4753	5348	5385	4483	2987	2595	3296	1662	1839	2028	3601	3032	4943	4174	4226	4259	4010	4062	4177	3730	3793
44	7802	6547	6821	6839	5840	4963	4599	4804	3544	3330	2991	4193	3119	4820	3888	3808	3353	2891	2910	2735	2018	1986
46	9852	8637	8830	8842	7824	7034	6617	6344	5636	5402	4968	5925	4721	6041	5109	4936	4110	3532	3501	2966	2086	1830
47	10684	9458	9664	9676	8657	7816	7369	6908	6438	6230	5802	6738	5523	6764	5845	5657	4776	4197	4156	3570	2744	2472
50	26030	24410	25352	25397	24523	22265	21486	19192	21530	21878	21869	23214	22125	23618	22680	22517	21678	21098	21060	20473	19643	19374
51	23408	21784	22742	22789	21924	19636	18856	16558	18918	19283	19294	20662	19592	21129	20186	20032	19221	18642	18607	18035	17189	16922
52	24479	22838	23851	23901	23057	20684	19895	17535	20024	20426	20471	21867	20819	22389	21445	21298	20506	19928	19895	19333	18477	18213
53	25362	23713	24755	24806	23974	21556	20763	18372	20930	21350	21412	22821	21784	23370	22425	22280	21497	20919	20887	20329	19470	19207
54	24510	22882	23850	23897	23035	20733	19951	17636	20025	20395	20409	21777	20707	22239	21297	21141	20326	19747	19711	19137	18293	18026
55	25594	23962	24944	24992	24135	21810	21026	18691	21118	21496	21516	22889	21820	23354	22412	22257	21441	20861	20826	20250	19407	19140
56	26465	24836	25807	25854	24991	22686	21903	19576	21982	22351	22360	23721	22644	24159	23219	23060	22233	21653	21616	21034	20198	19930
61	25163	23661	24315	24346	23384	21606	20893	18948	20610	20762	20570	21713	20526	21752	20854	20650	19704	19138	19086	18449	17721	17446
62	25850	24338	25012	25043	24086	22274	21554	19576	21294	21460	21278	22433	21250	22488	21587	21385	20442	19875	19823	19188	18456	18181
63	27355	25847	26512	26542	25582	23785	23066	21086	22801	22959	22769	23910	22722	23934	23039	22834	21881	21318	21264	20626	19905	19631
64	26672	25147	25850	25883	24933	23069	22341	20318	22115	22300	22135	23309	22132	23391	22487	22287	21350	20782	20731	20098	19358	19083

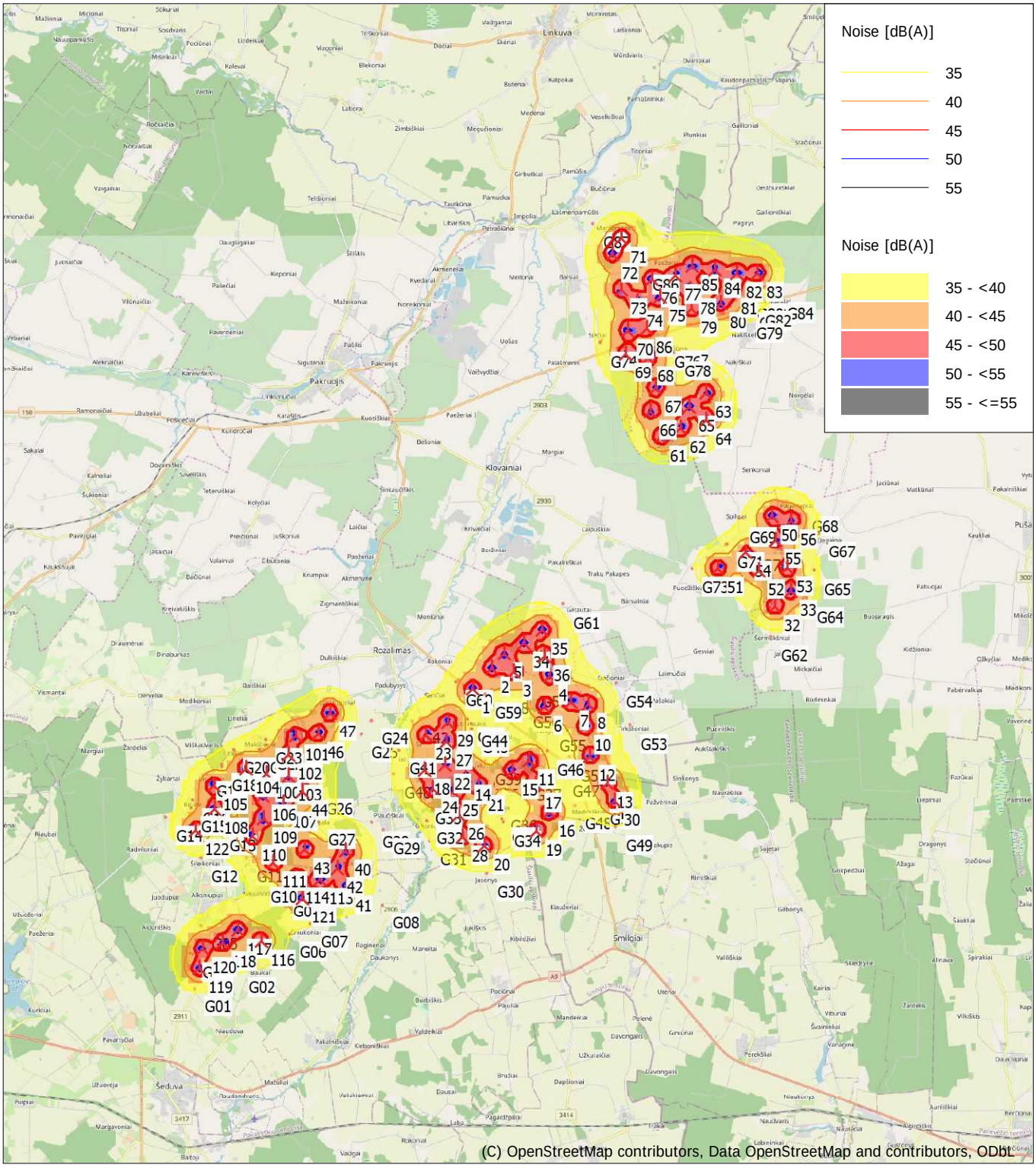
To be continued on next page...

Project:
Planuojamos VE

Licensed user:
VsI Pajurio tyrimu ir planavimo institutas
KMTP 206 kab., V. Berbomo g.10
LT-92221 Klaipeda
+370 46 398842
Viaceslav / gis@corpi.lt
Calculated:
2023-01-10 18:32/3.5.584

DECIBEL - Map 10,0 m/s

Calculation: VE 2 alt



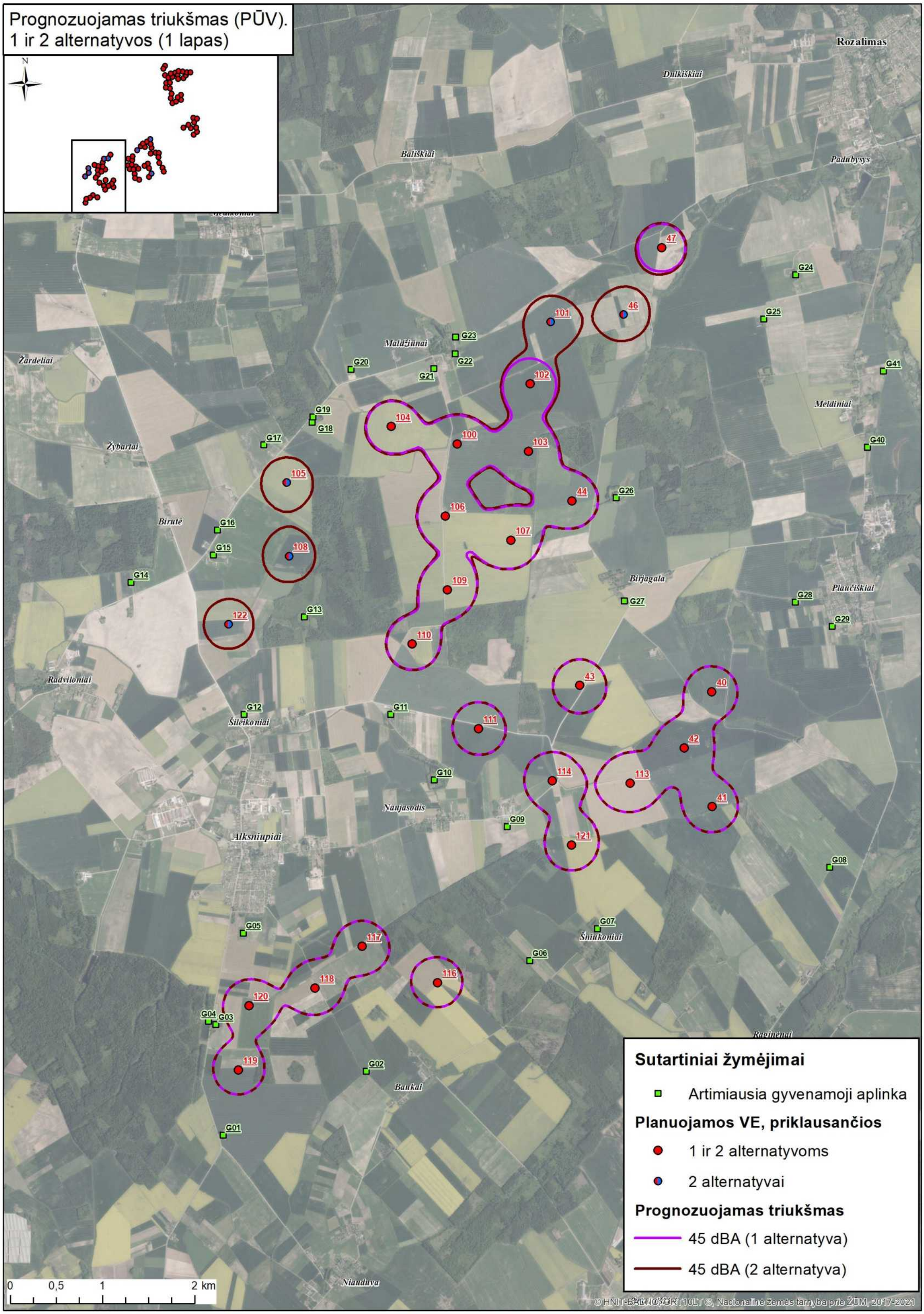
0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 496 119 North: 6 197 072

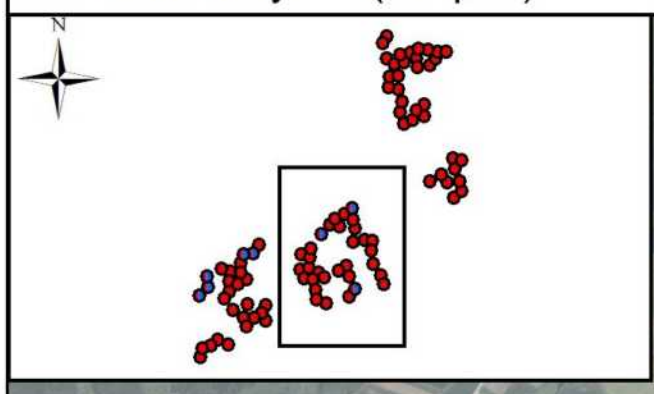
New WTG Noise sensitive area

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

Prognozuojamas triukšmas (PŪV). 1 ir 2 alternatyvos (1 lapas)



Prognozuojamas triukšmas (PŪV). 1 ir 2 alternatyvos (2 lapas)



Pakalniškiai
Rozalimas
Rokoniai
Padubysys
Bančiai
Gačioniai
Žvirbloniai
Tarvydai
Meldiniai
Mediniškiai
Čelkiai
Plančiškiai
Gikoniai
Žvalgai
Ledakupis
Jasonys
Kiauženiai
Jukiškis
Smilgiai

Sutartiniai žymėjimai

- Artimiausia gyvenamoji aplinka

Planuojamos VE, priklausančios

- 1 ir 2 alternatyvoms
- 2 alternatyvai

Prognozuojamas triukšmas

- 45 dBA (1 alternatyva)
- 45 dBA (2 alternatyva)

0 0,5 1 2 km

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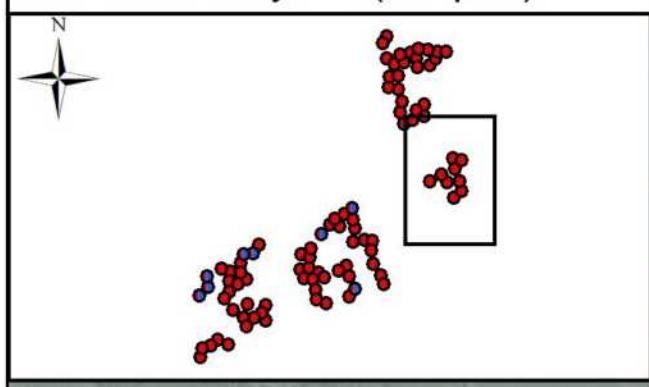
Prognozuojamas triukšmas (PŪV).
1 ir 2 alternatyvos (3 lapas)



Vildūnai
Spilgiai
Deglėnai
Laukugalis
Jakūboniai
Laimučiai
Šilai

G62 G63 G64 G65 G66 G67 G68 G69 G70 G71 G72 G73

32 33 50 51 52 53 54 55 56

Sutartiniai žymėjimai

Artimiausia gyvenamoji aplinka

Planuojamos VE, priklausančios

1 ir 2 alternatyvoms

2 alternatyvai

Prognozuojamas triukšmas

45 dBA (1 alternatyva)

45 dBA (2 alternatyva)

0 0,5 1 2 km

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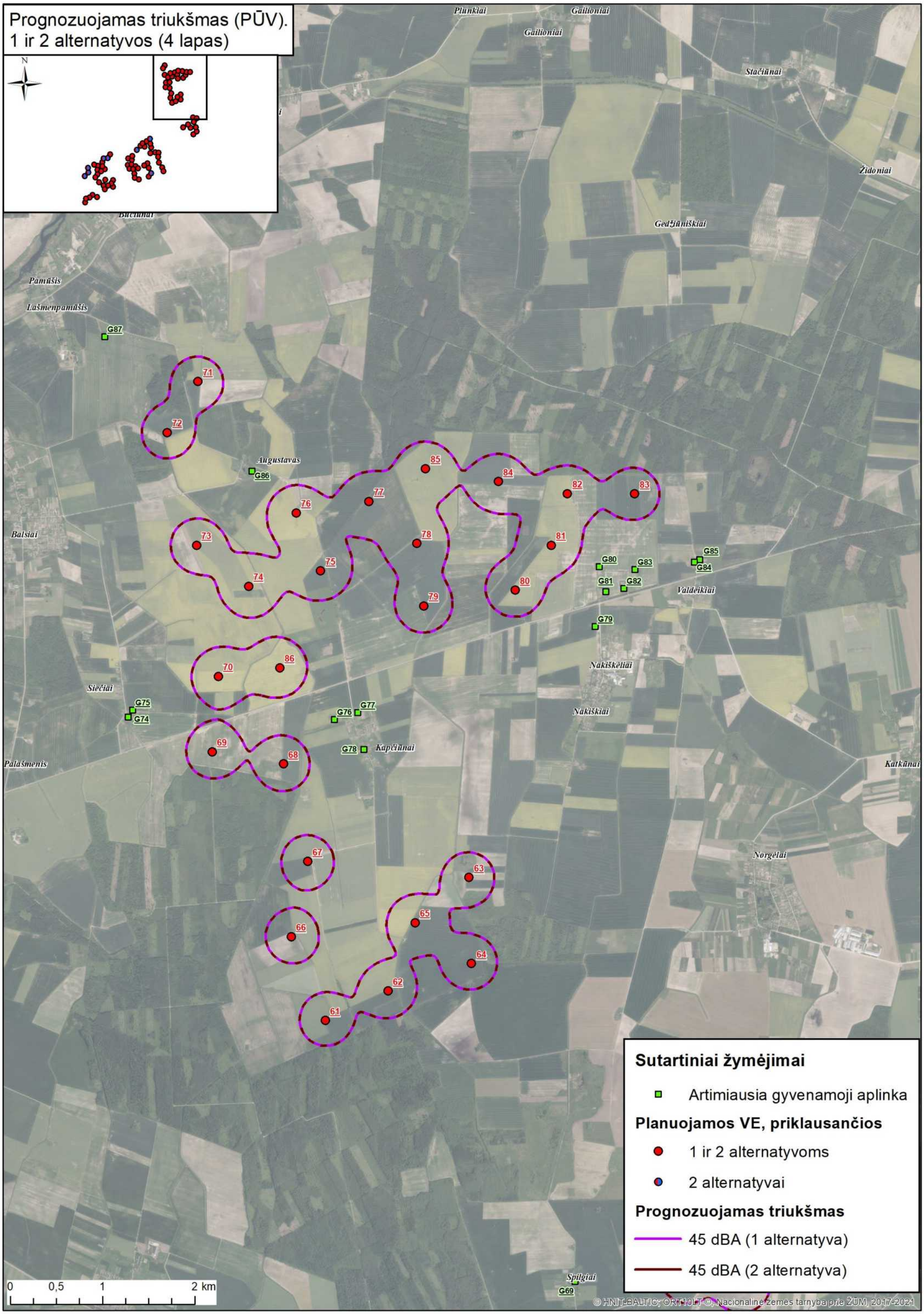
Prognozuojamas triukšmas (PŪV).
1 ir 2 alternatyvos (4 lapas)
N
Plunkiai
Gailioniai
Gailioniai
Stačiūnai
Židoniai
Gedžiūniškiai
Pamūšis
Lašmenpamūšis
G87
71
72
Augustavas
G86
85
84
82
83
77
76
Balsiai
73
78
81
G85
G84
G80
G83
G81
G82
75
74
80
79
Valdeikiai
G79
70
86
Nakiškėliai
Siečiai
G75
G74
G76
G77
Nakiškiai
69
68
G78
Kapčiūnai
Palašmenis
Katkūnai
67
63
Norgėlai
65
66
64
62
61
Sutartiniai žymėjimai
Artimiausia gyvenamoji aplinka
Planuojamos VE, priklausančios
1 ir 2 alternatyvoms
2 alternatyvai
Prognozuojamas triukšmas
45 dBA (1 alternatyva)
45 dBA (2 alternatyva)
0
0,5
1
2 km
Spilgiai
G69
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Triukšmo modeliavimo rezultatai (SUMINIS)

Planuojamos VE, 1 alternatyva + suplanuotos VE

Project:

Planuojamos VE

Licensed user:
Vsl Pajurio tyrimu ir planavimo institutas
KMTP 206 kab., V. Berbomo g.10
LT-92221 Klaipeda
+370 46 398842
Viaceslav / gis@corpi.lt

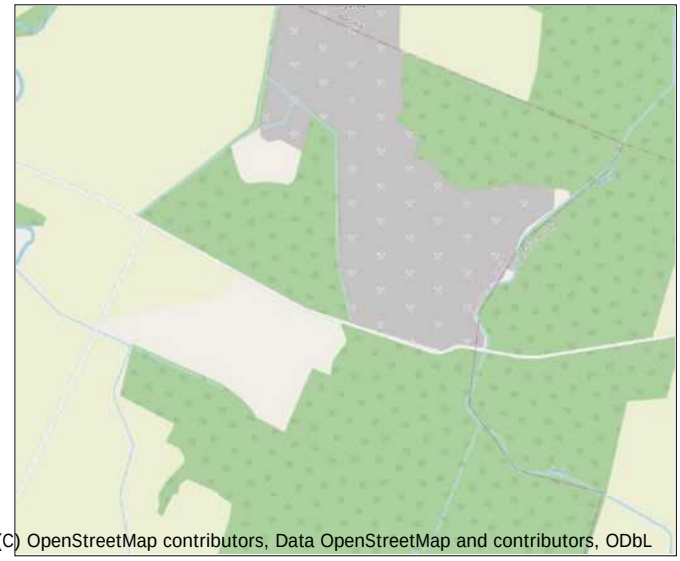
Calculated:
2023-01-16 00:41/3.5.584

DECIBEL - Main Result

Calculation: VE 1 alt (suminis)

Noise calculation model:
ISO 9613-2 General
Wind speed (in 10 m height):
10,0 m/s
Ground attenuation:
General, Ground factor: 0,7
Meteorological coefficient, C0:
2,0 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:
Pure tones penalty is added to total noise impact at receptors
WTG catalogue
Height above ground level, when no value in NSA object:
1,5 m; 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 1:30 000

New WTG Existing WTG Noise sensitive area

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data Creator	Name	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones
10	499 339	6 192 768	61,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
100	488 194	6 191 149	80,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
102	488 982	6 191 798	77,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
103	488 965	6 191 068	78,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
104	487 476	6 191 336	82,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
106	488 063	6 190 365	82,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
107	488 774	6 190 102	80,4	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
109	488 087	6 189 566	83,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
11	497 369	6 191 579	64,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
110	487 703	6 188 978	84,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
111	488 421	6 188 060	82,5	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
113	490 066	6 187 468	78,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
114	489 221	6 187 494	78,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
116	487 980	6 185 307	88,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
117	487 161	6 185 699	88,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
118	486 652	6 185 248	93,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
119	485 819	6 184 360	92,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
12	499 507	6 191 740	65,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
120	485 934	6 185 058	92,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
121	489 431	6 186 798	81,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
13	500 115	6 190 809	62,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
14	495 141	6 191 057	67,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
15	496 783	6 191 238	65,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
17	497 583	6 190 780	63,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
18	493 716	6 191 249	68,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
19	497 635	6 189 136	66,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
2	496 072	6 194 828	64,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
20	495 806	6 188 619	67,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
21	495 609	6 190 697	65,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
22	494 421	6 191 419	66,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
23	493 760	6 192 484	66,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
24	494 001	6 190 607	68,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
25	494 709	6 190 521	69,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
26	494 932	6 189 704	66,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
27	494 485	6 192 255	65,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
28	495 029	6 188 944	69,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
29	494 537	6 192 945	66,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
3	496 849	6 194 676	63,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
30	500 372	6 190 171	64,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
32	505 943	6 196 959	51,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
33	506 501	6 197 500	52,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
34	497 216	6 195 690	62,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h

To be continued on next page...

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Calculated:
2023-01-16 00:41/3.5.584

DECIBEL - Main Result

Calculation: VE 1 alt (suminis)

...continued from previous page

	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	Pure tones	
			[m]					[kW]	[m]	[m]			[m/s]	[dB(A)]		
36	497 918	6 195 220	64,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
4	498 094	6 194 549	63,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
40	490 952	6 188 461	77,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
41	490 956	6 187 214	77,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
42	490 653	6 187 850	77,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
43	489 521	6 188 529	79,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
44	489 437	6 190 532	78,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
47	490 409	6 193 275	74,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
5	496 494	6 195 320	63,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
50	505 860	6 200 126	53,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
51	503 975	6 198 287	53,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
52	505 377	6 198 220	53,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
53	506 394	6 198 319	53,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
54	504 944	6 198 838	51,4	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	105	10,0	105,0	No	h
55	505 959	6 199 299	51,4	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
56	506 528	6 199 986	49,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
6	497 904	6 193 492	62,5	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
61	501 980	6 202 855	53,5	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
62	502 661	6 203 174	51,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
63	503 539	6 204 406	52,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
64	503 565	6 203 472	52,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
65	502 954	6 203 915	52,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
66	501 612	6 203 764	51,5	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
67	501 790	6 204 579	52,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
68	501 526	6 205 637	50,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
69	500 755	6 205 769	50,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
7	498 844	6 193 650	64,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
70	500 821	6 206 587	52,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
71	500 601	6 209 783	50,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
72	500 267	6 209 231	50,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
73	500 586	6 208 007	51,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
74	501 149	6 207 565	51,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
75	501 930	6 207 730	51,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
76	501 664	6 208 359	50,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
77	502 453	6 208 484	52,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
78	502 973	6 208 028	50,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
79	503 046	6 207 349	52,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
8	499 435	6 193 560	60,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
80	504 037	6 207 522	51,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
81	504 430	6 208 007	49,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
82	504 605	6 208 569	50,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
83	505 334	6 208 566	51,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
84	503 858	6 208 700	52,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
85	503 067	6 208 838	51,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
86	501 486	6 206 678	50,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
supl01	502 436	6 197 303	56,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl02	503 036	6 196 566	54,9	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl03	502 082	6 196 517	56,6	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl04	501 131	6 196 610	57,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl05	501 940	6 195 622	57,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl06	503 373	6 195 727	55,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl07	503 573	6 194 904	55,1	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl08	502 607	6 193 214	55,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl09	502 370	6 192 359	57,1	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl10	501 932	6 191 233	59,4	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl11	500 931	6 191 239	62,8	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl12	500 094	6 191 851	58,7	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl13	500 032	6 192 948	62,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl14	498 563	6 194 570	62,3	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl15	498 132	6 195 824	62,2	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	

h) Generic octave distribution used

Calculation Results

Sound level

Noise sensitive area No.	Name	Y	X	Z [m]	Immission height [m]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled ? Noise
G01	Noise sensitive area: User defined (21)	485 672	6 183 700	94,5	1,5	45,0	36,9	Yes
G02	Noise sensitive area: User defined (67)	487 212	6 184 376	91,0	1,5	45,0	36,2	Yes
G03	Noise sensitive area: User defined (53)	485 622	6 184 862	94,0	1,5	45,0	43,7	Yes

To be continued on next page...

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Calculated:
2023-01-16 00:41/3.5.584

DECIBEL - Main Result

Calculation: VE 1 alt (suminis)

...continued from previous page

Noise sensitive area No.	Name	Y	X	Z [m]	Immission height [m]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled ? Noise
G04	Noise sensitive area: User defined (54)	485 542	6 184 884	93,8	1,5	45,0	42,5	Yes
G05	Noise sensitive area: User defined (55)	485 899	6 185 796	93,0	1,5	45,0	38,1	Yes
G06	Noise sensitive area: User defined (56)	488 937	6 185 555	87,2	1,5	45,0	35,3	Yes
G07	Noise sensitive area: User defined (57)	489 702	6 185 941	85,0	1,5	45,0	35,9	Yes
G08	Noise sensitive area: User defined (58)	492 187	6 186 592	76,0	1,5	45,0	31,9	Yes
G09	Noise sensitive area: User defined (59)	488 781	6 187 019	85,3	1,5	45,0	40,5	Yes
G10	Noise sensitive area: User defined (60)	487 969	6 187 540	90,1	1,5	45,0	38,3	Yes
G11	Noise sensitive area: User defined (61)	487 498	6 188 255	88,6	1,5	45,0	38,2	Yes
G12	Noise sensitive area: User defined (62)	485 934	6 188 217	90,3	1,5	45,0	29,9	Yes
G13	Noise sensitive area: User defined (63)	486 580	6 189 275	89,6	1,5	45,0	34,1	Yes
G14	Noise sensitive area: User defined (64)	484 702	6 189 624	93,3	1,5	45,0	26,2	Yes
G15	Noise sensitive area: User defined (65)	485 593	6 189 951	90,3	1,5	45,0	29,1	Yes
G16	Noise sensitive area: User defined (66)	485 642	6 190 219	87,7	1,5	45,0	29,3	Yes
G17	Noise sensitive area: User defined (68)	486 137	6 191 123	87,0	1,5	45,0	31,8	Yes
G18	Noise sensitive area: User defined (69)	486 667	6 191 358	85,3	1,5	45,0	36,0	Yes
G19	Noise sensitive area: User defined (70)	486 673	6 191 438	87,2	1,5	45,0	35,9	Yes
G20	Noise sensitive area: User defined (71)	487 076	6 191 915	82,7	1,5	45,0	37,2	Yes
G21	Noise sensitive area: User defined (72)	487 949	6 191 918	83,5	1,5	45,0	39,3	Yes
G22	Noise sensitive area: User defined (73)	488 192	6 192 080	81,6	1,5	45,0	38,5	Yes
G23	Noise sensitive area: User defined (74)	488 184	6 192 263	82,0	1,5	45,0	37,2	Yes
G24	Noise sensitive area: User defined (75)	491 809	6 192 980	73,8	1,5	45,0	31,8	Yes
G25	Noise sensitive area: User defined (76)	491 470	6 192 532	75,5	1,5	45,0	32,4	Yes
G26	Noise sensitive area: User defined (77)	489 858	6 190 558	81,6	1,5	45,0	42,0	Yes
G27	Noise sensitive area: User defined (78)	489 963	6 189 421	79,0	1,5	45,0	37,5	Yes
G28	Noise sensitive area: User defined (79)	491 828	6 189 400	77,0	1,5	45,0	33,4	Yes
G29	Noise sensitive area: User defined (80)	492 212	6 189 158	72,9	1,5	45,0	32,9	Yes
G30	Noise sensitive area: User defined (81)	495 870	6 187 713	69,7	1,5	45,0	34,9	Yes
G31	Noise sensitive area: User defined (82)	493 916	6 188 828	72,0	1,5	45,0	35,2	Yes
G32	Noise sensitive area: User defined (83)	493 823	6 189 518	71,9	1,5	45,0	37,0	Yes
G33	Noise sensitive area: User defined (84)	493 733	6 190 281	72,7	1,5	45,0	42,4	Yes
G34	Noise sensitive area: User defined (85)	496 419	6 189 418	68,7	1,5	45,0	37,0	Yes
G35	Noise sensitive area: User defined (86)	496 362	6 189 542	68,1	1,5	45,0	37,1	Yes
G36	Noise sensitive area: User defined (87)	496 324	6 189 988	68,2	1,5	45,0	37,7	Yes
G37	Noise sensitive area: User defined (88)	497 158	6 191 069	64,0	1,5	45,0	44,4	Yes
G38	Noise sensitive area: User defined (89)	495 715	6 191 326	70,0	1,5	45,0	41,5	Yes
G39	Noise sensitive area: User defined (90)	495 795	6 191 519	70,0	1,5	45,0	39,9	Yes
G40	Noise sensitive area: User defined (92)	492 683	6 191 108	69,0	1,5	45,0	35,5	Yes
G41	Noise sensitive area: User defined (91)	492 862	6 191 922	67,0	1,5	45,0	36,4	Yes
G42	Noise sensitive area: User defined (93)	493 311	6 192 931	66,9	1,5	45,0	38,6	Yes
G43	Noise sensitive area: User defined (94)	495 168	6 193 010	67,7	1,5	45,0	39,1	Yes
G44	Noise sensitive area: User defined (95)	495 293	6 192 865	68,3	1,5	45,0	38,3	Yes
G45	Noise sensitive area: User defined (96)	495 309	6 192 688	67,5	1,5	45,0	38,4	Yes
G46	Noise sensitive area: User defined (97)	497 950	6 191 890	63,7	1,5	45,0	39,2	Yes
G47	Noise sensitive area: User defined (98)	498 488	6 191 173	65,5	1,5	45,0	37,6	Yes
G48	Noise sensitive area: User defined (99)	498 990	6 190 050	68,5	1,5	45,0	35,1	Yes
G49	Noise sensitive area: User defined (100)	500 369	6 189 323	68,4	1,5	45,0	35,4	Yes
G50	Noise sensitive area: User defined (101)	499 863	6 190 203	63,2	1,5	45,0	41,3	Yes
G51	Noise sensitive area: User defined (102)	498 818	6 191 705	66,6	1,5	45,0	39,2	Yes
G52	Noise sensitive area: User defined (103)	498 802	6 191 815	65,0	1,5	45,0	39,2	Yes
G53	Noise sensitive area: User defined (105)	500 842	6 192 817	63,7	1,5	45,0	37,4	Yes
G54	Noise sensitive area: User defined (106)	500 379	6 194 243	61,3	1,5	45,0	35,6	Yes
G55	Noise sensitive area: User defined (104)	498 064	6 192 793	65,4	1,5	45,0	39,2	Yes
G56	Noise sensitive area: User defined (107)	497 188	6 193 593	66,0	1,5	45,0	38,9	Yes
G57	Noise sensitive area: User defined (108)	497 463	6 194 313	65,5	1,5	45,0	41,5	Yes
G58	Noise sensitive area: User defined (109)	496 083	6 194 100	67,0	1,5	45,0	38,7	Yes
G59	Noise sensitive area: User defined (110)	495 843	6 193 942	68,6	1,5	45,0	36,9	Yes
G60	Noise sensitive area: User defined (111)	494 846	6 194 294	68,0	1,5	45,0	34,3	Yes
G61	Noise sensitive area: User defined (112)	498 530	6 196 996	62,0	1,5	45,0	32,8	Yes
G62	Noise sensitive area: User defined (113)	505 813	6 195 949	55,4	1,5	45,0	33,9	Yes
G63	Noise sensitive area: User defined (114)	507 016	6 197 225	55,4	1,5	45,0	39,0	Yes
G64	Noise sensitive area: User defined (115)	507 008	6 197 272	54,5	1,5	45,0	39,4	Yes
G65	Noise sensitive area: User defined (116)	507 270	6 198 194	54,3	1,5	45,0	36,6	Yes
G67	Noise sensitive area: User defined (117)	507 424	6 199 512	53,0	1,5	45,0	34,8	Yes
G68	Noise sensitive area: User defined (118)	506 820	6 200 382	54,0	1,5	45,0	40,3	Yes
G69	Noise sensitive area: User defined (119)	504 735	6 199 995	56,0	1,5	45,0	35,3	Yes

To be continued on next page...

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Calculated:
2023-01-16 00:41/3.5.584

DECIBEL - Main Result

Calculation: VE 1 alt (suminis)

...continued from previous page

Noise sensitive area						Demands	Sound level	Demands fulfilled ?
No.	Name	Y	X	Z [m]	Immission height [m]	Noise [dB(A)]	From WTGs [dB(A)]	Noise
G70	Noise sensitive area: User defined (120)	505 132	6 199 013	54,3	1,5	45,0	44,3	Yes
G71	Noise sensitive area: User defined (121)	504 303	6 199 093	55,0	1,5	45,0	37,9	Yes
G72	Noise sensitive area: User defined (122)	504 249	6 199 060	53,9	1,5	45,0	37,9	Yes
G73	Noise sensitive area: User defined (123)	503 091	6 198 223	55,0	1,5	45,0	36,1	Yes
G74	Noise sensitive area: User defined (124)	499 894	6 206 136	52,0	1,5	45,0	36,7	Yes
G75	Noise sensitive area: User defined (125)	499 940	6 206 218	51,0	1,5	45,0	37,1	Yes
G76	Noise sensitive area: User defined (126)	502 032	6 206 124	52,7	1,5	45,0	40,1	Yes
G77	Noise sensitive area: User defined (127)	502 281	6 206 209	52,8	1,5	45,0	38,6	Yes
G78	Noise sensitive area: User defined (128)	502 361	6 205 798	54,0	1,5	45,0	38,0	Yes
G79	Noise sensitive area: User defined (129)	504 880	6 207 162	51,5	1,5	45,0	37,5	Yes
G80	Noise sensitive area: User defined (130)	504 913	6 207 807	51,6	1,5	45,0	41,7	Yes
G81	Noise sensitive area: User defined (131)	504 981	6 207 536	52,1	1,5	45,0	39,2	Yes
G82	Noise sensitive area: User defined (132)	505 181	6 207 578	50,8	1,5	45,0	38,2	Yes
G83	Noise sensitive area: User defined (133)	505 320	6 207 789	50,3	1,5	45,0	38,7	Yes
G84	Noise sensitive area: User defined (134)	505 949	6 207 850	53,0	1,5	45,0	35,1	Yes
G85	Noise sensitive area: User defined (135)	506 005	6 207 890	51,7	1,5	45,0	34,9	Yes
G86	Noise sensitive area: User defined (137)	501 267	6 208 704	55,3	1,5	45,0	41,6	Yes
G87	Noise sensitive area: User defined (136)	499 627	6 210 236	52,0	1,5	45,0	34,2	Yes

Distances (m)

WTG	G01	G02	G03	G04	G05	G06	G07	G08	G09	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G20	G21	G22
10	16400	14743	15835	15890	15097	12585	11789	9398	12023	12513	12668	14158	13230	14971	14034	13934	13305	12751	12737	12277	11376	11142
100	7865	6845	6771	6771	5741	5613	5423	6060	4127	3608	2971	3682	2456	3804	2861	2714	2057	1541	1549	1354	804	930
102	8750	7632	7689	7695	6668	6209	5903	6113	4749	4373	3839	4686	3470	4793	3857	3692	2922	2355	2336	1898	1001	827
103	8071	6919	7032	7041	6021	5478	5181	5515	4018	3661	3170	4148	2975	4496	3551	3429	2829	2316	2322	2067	1307	1272
104	7847	6966	6709	6699	5672	5939	5837	6687	4459	3814	3071	3450	2216	3249	2330	2142	1354	809	810	704	739	1005
106	7082	6050	6000	6003	4974	4861	4719	5591	3375	2818	2179	3010	1833	3440	2505	2425	2069	1707	1750	1838	1557	1717
107	7115	5937	6100	6114	5104	4517	4265	4897	3046	2682	2244	3403	2344	4099	3185	3134	2828	2449	2486	2484	1989	2063
109	6345	5264	5293	5302	4281	4074	3969	5067	2590	2022	1434	2535	1535	3385	2522	2528	2489	2273	2333	2556	2356	2513
11	14101	12447	13534	13589	12802	10290	9496	7142	9725	10228	10410	11920	11034	12818	11890	11808	11243	10706	10699	10287	9385	9170
110	5656	4629	4593	4601	3579	3619	3634	5081	2176	1446	746	1923	1158	3070	2317	2396	2642	2575	2646	3001	2951	3136
111	5155	3878	4242	4271	3329	2531	2475	4041	1049	689	915	2492	2195	4033	3391	3506	3808	3718	3786	4082	3887	4026
113	5787	4207	5152	5207	4449	2161	1567	2294	1361	2077	2653	4198	3919	5781	5108	5200	5359	5155	5212	5360	4923	4980
114	5195	3710	4457	4504	3686	1918	1626	3098	640	1232	1844	3364	3174	4994	4371	4486	4751	4617	4681	4914	4601	4701
116	2808	1207	2400	2475	2122	985	1781	4381	1814	2145	2904	3534	4174	5407	5194	5411	6078	6165	6242	6666	6612	6775
117	2493	1324	1752	1810	1245	1782	2511	5091	2002	1916	2488	2772	3583	4616	4499	4735	5493	5649	5728	6210	6270	6460
118	1832	1037	1100	1167	926	2304	3080	5680	2682	2549	3031	3017	3981	4770	4783	5034	5866	6074	6154	6671	6795	6998
119	676	1360	495	565	1435	3332	4136	6728	3894	3743	4147	3810	4919	5353	5550	5816	6733	7008	7088	7647	7852	8068
12	15999	14326	15499	15558	14809	12171	11367	8893	11721	12274	12498	14025	13163	14957	14031	13951	13386	12848	12840	12421	11518	11299
120	1383	1436	368	427	738	3042	3822	6423	3369	3115	3465	3112	4212	4703	4861	5125	6032	6302	6382	6940	7149	7367
121	4870	3284	4274	4333	3636	1284	899	2757	677	1597	2369	3769	3762	5506	4954	5090	5424	5317	5382	5633	5328	5427
13	16094	14411	15670	15734	15038	12273	11466	8919	11954	12572	12865	14420	13625	15461	14551	14488	13985	13462	13460	13077	12178	11972
14	11991	10366	11358	11409	10588	8222	7450	5312	7533	7986	8135	9636	8746	10537	9613	9537	9006	8481	8478	8100	7205	7006
15	13425	11772	12856	12911	12125	9615	8822	6486	9047	9555	9746	11263	10392	12189	11266	11189	10648	10118	10114	9720	8820	8612
17	13854	12183	13348	13407	12662	10027	9224	6777	9574	10140	10389	11930	11108	12934	12021	11956	11453	10933	10932	10559	9663	9463
18	11032	9463	10309	10353	9479	7369	6643	4872	6496	6840	6900	8352	7405	9159	8228	8141	7582	7051	7048	6663	5767	5568
19	13133	11449	12753	12820	12167	9325	8519	5949	9105	9785	10161	11739	11058	12944	12071	12043	11670	11193	11203	10914	10047	9880
2	15233	13704	14437	14473	13546	11637	10923	9071	10677	10900	10805	12099	10994	12499	11558	11402	10599	10021	9988	9430	8571	8307
20	11259	9575	10857	10923	10267	7441	6634	4087	7206	7898	8300	9882	9251	11152	10300	10289	9990	9543	9561	9329	8495	8355
21	12152	10506	11569	11623	10834	8352	7565	5299	7757	8263	8464	9990	9143	10961	10046	9981	9484	8968	8969	8611	7721	7529
22	11668	10077	10973	11019	10160	7962	7217	5284	7151	7528	7609	9071	8130	9883	8951	8862	8291	7756	7750	7351	6451	6245
23	11942	10424	11146	11184	10264	8380	7690	6072	7386	7616	7557	8912	7864	9496	8552	8429	7743	7182	7164	6692	5791	5556
24	10820	9213	10159	10209	9375	7085	6330	4371	6333	6766	6910	8415	7541	9352	8436	8370	7883	7374	7377	7040	6158	5979
25	11321	9690	10705	10758	9951	7543	6768	4627	6885	7366	7552	9073	8225	10047	9135	9073	8594	8087	8090	7751	6868	6686
26	11033	9374	10496	10554	9801	7216	6421	4103	6712	7284	7563	9121	8364	10232	9343	9305	8910	8430	8441	8156	7295	7135
27	12283	10723	11540	11581	10690	8634	7909	6078	7738	8044	8051	9455	8448	10129	9187	9076	8424	7869	7855	7402	6499	6271
28	10722	9047	10257	10320	9620	6895	6089	3636	6540	7188	7548	9126	8457	10352	9491	9474	9157	8705	8722	8487	7653	7513
29	12810	11275	12031	12069	11156	9209	8500	6742	8255	8508	8459	9814	8762	10377	9432	9304	8594	8028	8007	7513	6618	6374
3	15667	14106	14910	14950	14043	12010	11274	9294	11119	11394	11344	12680	11601	13151	12207	12061	11283	10706	10676	10132	9262	9002
30	16056	14371	15681	15748	15086	12252	11446	8869	12015	12671	13006	14574	13825	15683	14785	14734	14271	13760	13762	13403	12510	12313
32	24223	22563	23654	23708	22901	20405	19606	17173	19837	20295	20397	21838	20835	22472	21527	21394	20649	20074	20047	19509	18635	18377
33	24987	23328	24411	24464	23651	21170	20372	17944	20591	21041	21134	22567	21555	23178	22233	22097	21340	20764	20735	20191	19321	19061
34	16646	15104	15861	15898	14975	13023	12297	10358	12091	12328	12238	13528	12418	13901	12962	12801	11979	11399	11364	10792	9946	9679
36	16814	15238	16076	16117	15219	13127	12380	10317	12274	12570	12534	13877	12801	14347	13404	13255	12470	11892	11861	11310	10445	10183
4	16494	14896	15792	15836	14959	12768	12007	9867	11975	12316	12325	13709	12664	14266	13321	13184	12437	11863	11836	11307	10427	10172
40	7109	5538	6431	6481	5668	3474	2805	2239	2605	3115	3444	5025	4446	6358	5561	5591	5500	5168	5209	5193	4567	4551
41	6342	4693	5831	5893	5217	2541	1770	1379	2183	2980	3578	5120	4831	6703	6014	6097	6200	5956	6008	6097	5575	5598
42	6482	4887	5851	5905	5136	2801	2124	1985	2048	2687	3155	4733	4311	6210	5474	5536	5572	5303	5352	5416	4876	4895
43	6176	4753	5348	5385	4483	2987	2595	3296	1662	1839	2028	3601	3032	4943	4174	4226	4259	4010	4062	4177	3730	3793
44	7802	6547	6821	6839	5840	4963	4599	4804	3544	3330	2991	4193	3119	4820	3888	3808	3353	2891	2910	2735	2018	1986
47	10684	9458	9664	9676	8657	7816	7369	6908	6438	6230	5802	6738	5523	6764	5845	5657	4776	4197	4156	3570	2744	2472

To be continued on next page...

Project:
Planuojamos VE

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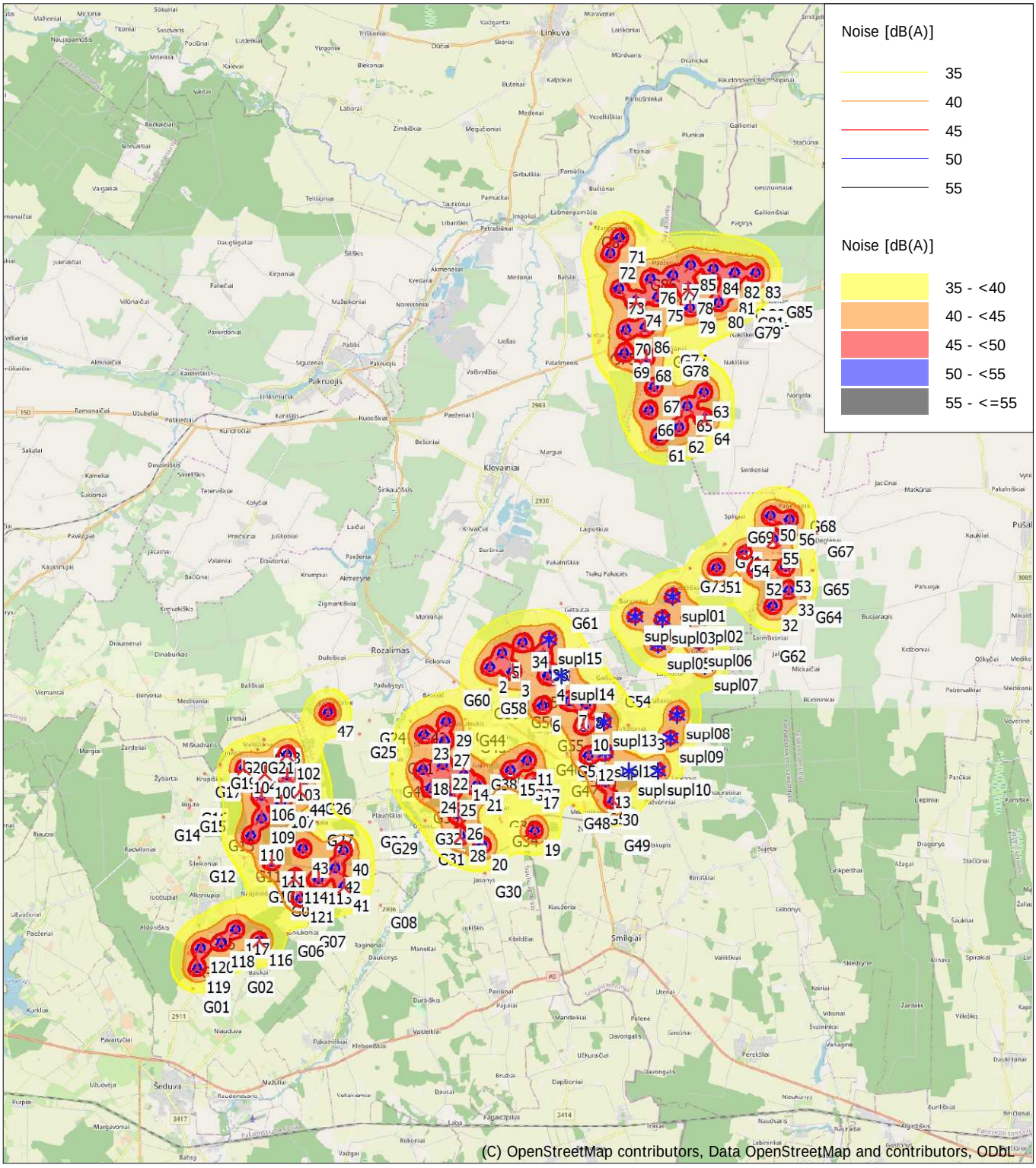
Calculated:
2023-01-16 00:41/3.5.584

DECIBEL - Map 10,0 m/s

Calculation: VE 1 alt (suminis)



0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 496 173 North: 6 197 072

New WTG Existing WTG Noise sensitive area

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

Triukšmo modeliavimo rezultatai (SUMINIS)

Planuojamos VE, 2 alternatyva + suplanuotos VE

Project:

Planuojamos VE

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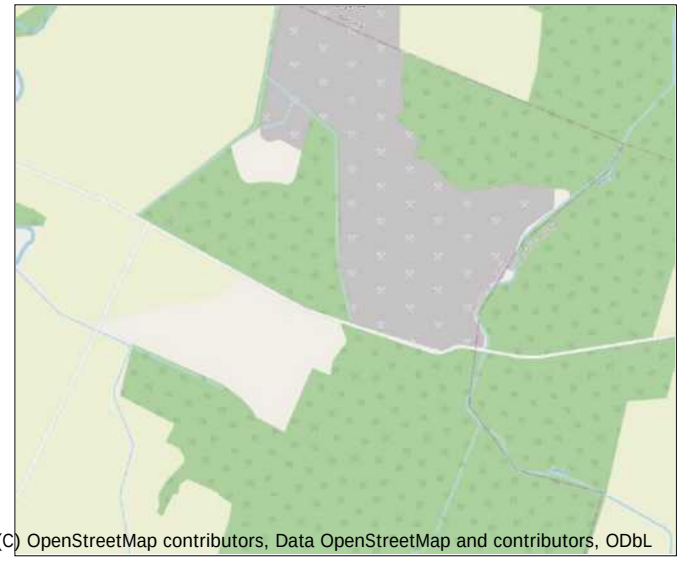
Calculated:
2023-01-16 02:02/3.5.584

DECIBEL - Main Result

Calculation: VE 2 alt (suminis)

Noise calculation model:
ISO 9613-2 General
Wind speed (in 10 m height):
10,0 m/s
Ground attenuation:
General, Ground factor: 0,7
Meteorological coefficient, C0:
2,0 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:
Pure tones penalty is added to total noise impact at receptors
WTG catalogue
Height above ground level, when no value in NSA object:
1,5 m; 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 1:30 000

New WTG Existing WTG Noise sensitive area

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data Creator	Name	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones
1	495 390	6 194 097	63,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
10	499 339	6 192 768	61,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
100	488 194	6 191 149	80,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
101	489 205	6 192 470	76,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
102	488 982	6 191 798	77,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
103	488 965	6 191 068	78,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
104	487 476	6 191 336	82,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
105	486 343	6 190 728	84,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
106	488 063	6 190 365	82,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
107	488 774	6 190 102	80,4	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
108	486 368	6 189 932	90,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
109	488 087	6 189 566	83,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
11	497 369	6 191 579	64,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
110	487 703	6 188 978	84,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
111	488 421	6 188 060	82,5	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
113	490 066	6 187 468	78,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
114	489 221	6 187 494	78,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
116	487 980	6 185 307	88,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
117	487 161	6 185 699	88,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
118	486 652	6 185 248	93,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
119	485 819	6 184 360	92,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
12	499 507	6 191 740	65,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
120	485 934	6 185 058	92,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
121	489 431	6 186 798	81,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
122	485 710	6 189 190	87,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
13	500 115	6 190 809	62,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
14	495 141	6 191 057	67,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
15	496 783	6 191 238	65,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
16	498 090	6 189 790	64,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
17	497 583	6 190 780	63,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
18	493 716	6 191 249	68,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
19	497 635	6 189 136	66,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
2	496 072	6 194 828	64,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
20	495 806	6 188 619	67,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
21	495 609	6 190 697	65,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
22	494 421	6 191 419	66,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
23	493 760	6 192 484	66,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
24	494 001	6 190 607	68,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
25	494 709	6 190 521	69,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
26	494 932	6 189 704	66,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
27	494 485	6 192 255	65,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h
28	495 029	6 188 944	69,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No h

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Calculated:
2023-01-16 02:02/3.5.584

DECIBEL - Main Result

Calculation: VE 2 alt (suminis)

...continued from previous page

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data Creator	Name	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones	
29	494 537	6 192 945	66,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
3	496 849	6 194 676	63,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
30	500 372	6 190 171	64,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
32	505 943	6 196 959	51,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
33	506 501	6 197 500	52,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
34	497 216	6 195 690	62,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
35	497 821	6 196 141	63,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
36	497 918	6 195 220	64,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
4	498 094	6 194 549	63,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
40	490 952	6 188 461	77,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
41	490 956	6 187 214	77,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
42	490 653	6 187 850	77,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
43	489 521	6 188 529	79,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
44	489 437	6 190 532	78,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
46	489 996	6 192 550	75,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
47	490 409	6 193 275	74,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
5	496 494	6 195 320	63,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
50	505 860	6 200 126	53,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
51	503 975	6 198 287	53,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
52	505 377	6 198 220	53,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
53	506 394	6 198 319	53,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
54	504 944	6 198 838	51,4	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	105	10,0	105,0	No	h
55	505 959	6 199 299	51,4	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
56	506 528	6 199 986	49,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
6	497 904	6 193 492	62,5	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
61	501 980	6 202 855	53,5	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
62	502 661	6 203 174	51,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
63	503 539	6 204 406	52,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
64	503 565	6 203 472	52,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
65	502 954	6 203 915	52,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
66	501 612	6 203 764	51,5	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
67	501 790	6 204 579	52,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
68	501 526	6 205 637	50,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
69	500 755	6 205 769	50,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
7	498 844	6 193 650	64,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
70	500 821	6 206 587	52,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
71	500 601	6 209 783	50,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
72	500 267	6 209 231	50,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
73	500 586	6 208 007	51,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
74	501 149	6 207 565	51,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
75	501 930	6 207 730	51,2	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
76	501 664	6 208 359	50,6	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
77	502 453	6 208 484	52,3	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
78	502 973	6 208 028	50,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
79	503 046	6 207 349	52,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
8	499 435	6 193 560	60,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
80	504 037	6 207 522	51,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
81	504 430	6 208 007	49,9	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
82	504 605	6 208 569	50,1	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
83	505 334	6 208 566	51,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
84	503 858	6 208 700	52,8	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
85	503 067	6 208 838	51,0	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
86	501 486	6 206 678	50,7	VE model VE model 80...	Yes	VE model	VE model-8 000	8 000	180,0	120,9	USER	107	10,0	107,0	No	h
supl01	502 436	6 197 303	56,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl02	503 036	6 196 566	54,9	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl03	502 082	6 196 517	56,6	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl04	501 131	6 196 610	57,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl05	501 940	6 195 622	57,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl06	503 373	6 195 727	55,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl07	503 573	6 194 904	55,1	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl08	502 607	6 193 214	55,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl09	502 370	6 192 359	57,1	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl10	501 932	6 191 233	59,4	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl11	500 931	6 191 239	62,8	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl12	500 094	6 191 851	58,7	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl13	500 032	6 192 948	62,0	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl14	498 563	6 194 570	62,3	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	
supl15	498 132	6 195 824	62,2	VE model 8000 180.0 !...	Yes	VE model	-8 000	8 000	180,0	161,0	USER	NRO 106dB	10,0	106,0	No	

h) Generic octave distribution used

Calculation Results

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Calculated:
2023-01-16 02:02/3.5.584

DECIBEL - Main Result

Calculation: VE 2 alt (suminis)

Sound level

Noise sensitive area No.	Name	Y	X	Z [m]	Immission height [m]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled ? Noise
G01	Noise sensitive area: User defined (21)	485 672	6 183 700	94,5	1,5	45,0	36,9	Yes
G02	Noise sensitive area: User defined (67)	487 212	6 184 376	91,0	1,5	45,0	36,2	Yes
G03	Noise sensitive area: User defined (53)	485 622	6 184 862	94,0	1,5	45,0	43,7	Yes
G04	Noise sensitive area: User defined (54)	485 542	6 184 884	93,8	1,5	45,0	42,5	Yes
G05	Noise sensitive area: User defined (55)	485 899	6 185 796	93,0	1,5	45,0	38,1	Yes
G06	Noise sensitive area: User defined (56)	488 937	6 185 555	87,2	1,5	45,0	35,4	Yes
G07	Noise sensitive area: User defined (57)	489 702	6 185 941	85,0	1,5	45,0	35,9	Yes
G08	Noise sensitive area: User defined (58)	492 187	6 186 592	76,0	1,5	45,0	31,9	Yes
G09	Noise sensitive area: User defined (59)	488 781	6 187 019	85,3	1,5	45,0	40,6	Yes
G10	Noise sensitive area: User defined (60)	487 969	6 187 540	90,1	1,5	45,0	38,4	Yes
G11	Noise sensitive area: User defined (61)	487 489	6 188 263	88,6	1,5	45,0	38,5	Yes
G12	Noise sensitive area: User defined (62)	485 885	6 188 268	90,3	1,5	45,0	34,8	Yes
G13	Noise sensitive area: User defined (63)	486 516	6 189 322	89,6	1,5	45,0	39,9	Yes
G14	Noise sensitive area: User defined (64)	484 702	6 189 624	93,3	1,5	45,0	33,1	Yes
G15	Noise sensitive area: User defined (65)	485 587	6 189 921	90,3	1,5	45,0	38,8	Yes
G16	Noise sensitive area: User defined (66)	485 642	6 190 208	87,7	1,5	45,0	38,4	Yes
G17	Noise sensitive area: User defined (68)	486 123	6 191 095	87,0	1,5	45,0	41,4	Yes
G18	Noise sensitive area: User defined (69)	486 632	6 191 322	85,3	1,5	45,0	39,3	Yes
G19	Noise sensitive area: User defined (70)	486 648	6 191 404	87,2	1,5	45,0	38,7	Yes
G20	Noise sensitive area: User defined (71)	487 076	6 191 915	82,7	1,5	45,0	37,9	Yes
G21	Noise sensitive area: User defined (72)	487 959	6 191 919	83,5	1,5	45,0	39,8	Yes
G22	Noise sensitive area: User defined (73)	488 202	6 192 086	81,6	1,5	45,0	39,4	Yes
G23	Noise sensitive area: User defined (74)	488 195	6 192 269	82,0	1,5	45,0	38,4	Yes
G24	Noise sensitive area: User defined (75)	491 809	6 192 980	73,8	1,5	45,0	32,7	Yes
G25	Noise sensitive area: User defined (76)	491 461	6 192 514	75,5	1,5	45,0	33,8	Yes
G26	Noise sensitive area: User defined (77)	489 858	6 190 558	81,6	1,5	45,0	42,1	Yes
G27	Noise sensitive area: User defined (78)	489 957	6 189 431	79,0	1,5	45,0	37,6	Yes
G28	Noise sensitive area: User defined (79)	491 828	6 189 400	77,0	1,5	45,0	33,6	Yes
G29	Noise sensitive area: User defined (80)	492 212	6 189 158	72,9	1,5	45,0	33,0	Yes
G30	Noise sensitive area: User defined (81)	495 870	6 187 713	69,7	1,5	45,0	35,0	Yes
G31	Noise sensitive area: User defined (82)	493 916	6 188 828	72,0	1,5	45,0	35,2	Yes
G32	Noise sensitive area: User defined (83)	493 823	6 189 518	71,9	1,5	45,0	37,0	Yes
G33	Noise sensitive area: User defined (84)	493 733	6 190 281	72,7	1,5	45,0	42,4	Yes
G34	Noise sensitive area: User defined (85)	496 419	6 189 418	68,7	1,5	45,0	37,3	Yes
G35	Noise sensitive area: User defined (86)	496 362	6 189 542	68,1	1,5	45,0	37,3	Yes
G36	Noise sensitive area: User defined (87)	496 324	6 189 988	68,2	1,5	45,0	37,9	Yes
G37	Noise sensitive area: User defined (88)	497 158	6 191 069	64,0	1,5	45,0	44,5	Yes
G38	Noise sensitive area: User defined (89)	495 715	6 191 326	70,0	1,5	45,0	41,5	Yes
G39	Noise sensitive area: User defined (90)	495 795	6 191 519	70,0	1,5	45,0	39,9	Yes
G40	Noise sensitive area: User defined (92)	492 683	6 191 108	69,0	1,5	45,0	35,7	Yes
G41	Noise sensitive area: User defined (91)	492 862	6 191 922	67,0	1,5	45,0	36,5	Yes
G42	Noise sensitive area: User defined (93)	493 311	6 192 931	66,9	1,5	45,0	38,7	Yes
G43	Noise sensitive area: User defined (94)	495 164	6 193 023	67,7	1,5	45,0	39,7	Yes
G44	Noise sensitive area: User defined (95)	495 292	6 192 873	68,3	1,5	45,0	38,8	Yes
G45	Noise sensitive area: User defined (96)	495 308	6 192 697	67,5	1,5	45,0	38,8	Yes
G46	Noise sensitive area: User defined (97)	497 950	6 191 890	63,7	1,5	45,0	39,3	Yes
G47	Noise sensitive area: User defined (98)	498 488	6 191 161	65,5	1,5	45,0	38,0	Yes
G48	Noise sensitive area: User defined (99)	498 926	6 190 018	68,5	1,5	45,0	37,1	Yes
G49	Noise sensitive area: User defined (100)	500 369	6 189 323	68,4	1,5	45,0	35,5	Yes
G50	Noise sensitive area: User defined (101)	499 863	6 190 203	63,2	1,5	45,0	41,4	Yes
G51	Noise sensitive area: User defined (102)	498 818	6 191 705	66,6	1,5	45,0	39,3	Yes
G52	Noise sensitive area: User defined (103)	498 802	6 191 815	65,0	1,5	45,0	39,3	Yes
G53	Noise sensitive area: User defined (105)	500 842	6 192 817	63,7	1,5	45,0	37,5	Yes
G54	Noise sensitive area: User defined (106)	500 372	6 194 251	61,3	1,5	45,0	35,7	Yes
G55	Noise sensitive area: User defined (104)	498 064	6 192 793	65,4	1,5	45,0	39,2	Yes
G56	Noise sensitive area: User defined (107)	497 188	6 193 593	66,0	1,5	45,0	39,1	Yes
G57	Noise sensitive area: User defined (108)	497 463	6 194 313	65,5	1,5	45,0	41,6	Yes
G58	Noise sensitive area: User defined (109)	496 032	6 194 090	67,0	1,5	45,0	40,6	Yes
G59	Noise sensitive area: User defined (110)	495 788	6 193 928	68,6	1,5	45,0	41,9	Yes
G60	Noise sensitive area: User defined (111)	494 846	6 194 294	68,0	1,5	45,0	39,2	Yes
G61	Noise sensitive area: User defined (112)	498 519	6 197 002	62,0	1,5	45,0	34,8	Yes
G62	Noise sensitive area: User defined (113)	505 813	6 195 949	55,4	1,5	45,0	33,9	Yes
G63	Noise sensitive area: User defined (114)	507 016	6 197 225	55,4	1,5	45,0	39,0	Yes
G64	Noise sensitive area: User defined (115)	507 008	6 197 272	54,5	1,5	45,0	39,4	Yes

To be continued on next page...

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DECIBEL - Main Result

Calculation: VE 2 alt (suminis)

...continued from previous page

Noise sensitive area						Demands	Sound level	Demands fulfilled ?
No.	Name	Y	X	Z [m]	Immission height [m]	Noise [dB(A)]	From WTGs [dB(A)]	Noise
G65	Noise sensitive area: User defined (116)	507 270	6 198 194	54,3	1,5	45,0	36,6	Yes
G67	Noise sensitive area: User defined (117)	507 424	6 199 512	53,0	1,5	45,0	34,9	Yes
G68	Noise sensitive area: User defined (118)	506 820	6 200 382	54,0	1,5	45,0	40,3	Yes
G69	Noise sensitive area: User defined (119)	504 735	6 199 995	56,0	1,5	45,0	35,3	Yes
G70	Noise sensitive area: User defined (120)	505 132	6 199 013	54,3	1,5	45,0	44,3	Yes
G71	Noise sensitive area: User defined (121)	504 303	6 199 093	55,0	1,5	45,0	37,9	Yes
G72	Noise sensitive area: User defined (122)	504 249	6 199 060	53,9	1,5	45,0	37,9	Yes
G73	Noise sensitive area: User defined (123)	503 091	6 198 223	55,0	1,5	45,0	36,1	Yes
G74	Noise sensitive area: User defined (124)	499 894	6 206 136	52,0	1,5	45,0	36,7	Yes
G75	Noise sensitive area: User defined (125)	499 940	6 206 218	51,0	1,5	45,0	37,1	Yes
G76	Noise sensitive area: User defined (126)	502 032	6 206 124	52,7	1,5	45,0	40,1	Yes
G77	Noise sensitive area: User defined (127)	502 281	6 206 209	52,8	1,5	45,0	38,6	Yes
G78	Noise sensitive area: User defined (128)	502 361	6 205 798	54,0	1,5	45,0	38,0	Yes
G79	Noise sensitive area: User defined (129)	504 880	6 207 162	51,5	1,5	45,0	37,5	Yes
G80	Noise sensitive area: User defined (130)	504 913	6 207 807	51,6	1,5	45,0	41,7	Yes
G81	Noise sensitive area: User defined (131)	504 981	6 207 536	52,1	1,5	45,0	39,2	Yes
G82	Noise sensitive area: User defined (132)	505 181	6 207 578	50,8	1,5	45,0	38,2	Yes
G83	Noise sensitive area: User defined (133)	505 320	6 207 789	50,3	1,5	45,0	38,7	Yes
G84	Noise sensitive area: User defined (134)	505 949	6 207 850	53,0	1,5	45,0	35,1	Yes
G85	Noise sensitive area: User defined (135)	506 005	6 207 890	51,7	1,5	45,0	34,9	Yes
G86	Noise sensitive area: User defined (137)	501 267	6 208 704	55,3	1,5	45,0	41,6	Yes
G87	Noise sensitive area: User defined (136)	499 627	6 210 236	52,0	1,5	45,0	34,2	Yes

Distances (m)

WTG	G01	G02	G03	G04	G05	G06	G07	G08	G09	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G20	G21	G22
1	14234	12706	13439	13476	12552	10643	9933	8127	9677	9905	9821	11132	10041	11582	10638	10491	9716	9140	9111	8573	7698	7440
10	16400	14743	15835	15890	15097	12585	11789	9398	12023	12513	12668	14158	13230	14971	14034	13934	13305	12751	12737	12277	11376	11142
100	7865	6845	6771	6771	5741	5613	5423	6060	4127	3608	2971	3682	2456	3804	2861	2714	2057	1541	1549	1354	804	930
101	9456	8337	8391	8395	7367	6884	6549	6589	5434	5078	4545	5346	4118	5316	4397	4209	3344	2764	2728	2176	1310	1045
102	8750	7632	7689	7695	6668	6209	5903	6113	4749	4373	3839	4686	3470	4793	3857	3692	2922	2355	2336	1898	1001	827
103	8071	6919	7032	7041	6021	5478	5181	5515	4018	3661	3170	4148	2975	4496	3551	3429	2829	2316	2322	2067	1307	1272
104	7847	6966	6709	6699	5672	5939	5837	6687	4459	3814	3071	3450	2216	3249	2330	2142	1354	809	810	704	739	1005
105	7060	6413	5879	5856	4859	5773	5846	7162	4376	3554	2705	2502	1415	1965	1066	859	428	651	727	1366	1980	2255
106	7082	6050	6000	6003	4974	4861	4719	5591	3375	2818	2179	3010	1833	3440	2505	2425	2069	1707	1750	1838	1557	1717
107	7115	5937	6100	6114	5104	4517	4265	4897	3046	2682	2244	3403	2344	4099	3185	3134	2828	2449	2486	2484	1989	2063
108	6270	5620	5094	5073	4070	5062	5195	6711	3714	2847	1991	1730	626	1692	775	776	1186	1412	1493	2086	2528	2793
109	6345	5264	5293	5302	4281	4074	3969	5067	2590	2022	1434	2535	1535	3385	2522	2528	2489	2273	2333	2556	2356	2513
11	14101	12447	13534	13589	12802	10290	9496	7142	9725	10228	10410	11920	11034	12818	11890	11808	11243	10706	10699	10287	9385	9170
110	5656	4629	4593	4601	3579	3619	3634	5081	2176	1446	746	1923	1158	3070	2317	2396	2642	2575	2646	3001	2951	3136
111	5155	3878	4242	4271	3329	2531	2475	4041	1049	689	915	2492	2195	4033	3391	3506	3808	3718	3786	4082	3887	4026
113	5787	4207	5152	5207	4449	2161	1567	2294	1361	2077	2653	4198	3919	5781	5108	5200	5359	5155	5212	5360	4923	4980
114	5195	3710	4457	4504	3686	1918	1626	3098	640	1232	1844	3364	3174	4994	4371	4486	4751	4617	4681	4914	4601	4701
116	2808	1207	2400	2475	2122	985	1781	4381	1814	2145	2904	3534	4174	5407	5194	5411	6078	6165	6242	6666	6612	6775
117	2493	1324	1752	1810	1245	1782	2511	5091	2002	1916	2488	2772	3583	4616	4499	4735	5493	5649	5728	6210	6270	6460
118	1832	1037	1100	1167	926	2304	3080	5680	2682	2549	3031	3017	3981	4770	4783	5034	5866	6074	6154	6671	6795	6998
119	676	1360	495	565	1435	3332	4136	6728	3894	3743	4147	3810	4919	5353	5550	5816	6733	7008	7088	7647	7852	8068
12	15999	14326	15499	15558	14809	12171	11367	8893	11721	12274	12498	14025	13163	14957	14031	13951	13386	12848	12840	12421	11518	11299
120	1383	1436	368	427	738	3042	3822	6423	3369	3115	3465	3112	4212	4703	4861	5125	6032	6302	6382	6940	7149	7367
121	4870	3284	4274	4333	3636	1284	899	2757	677	1597	2369	3769	3762	5506	4954	5090	5424	5317	5382	5633	5328	5427
122	5489	5044	4293	4262	3302	4853	5137	6978	3683	2750	1964	938	781	1096	730	987	1934	2314	2391	3023	3518	3783
13	16094	14411	15670	15734	15038	12273	11466	8919	11954	12572	12865	14420	13625	15461	14551	14488	13985	13462	13460	13077	12178	11972
14	11991	10366	11358	11409	10588	8222	7450	5312	7533	7986	8135	9636	8746	10537	9613	9537	9006	8481	8478	8100	7205	7006
15	13425	11772	12856	12911	12125	9615	8822	6486	9047	9555	9746	11263	10392	12189	11266	11189	10648	10118	10114	9720	8820	8612
16	13826	12142	13410	13474	12792	10006	9199	6653	9715	10359	10691	12260	11524	13391	12500	12457	12030	11532	11538	11210	10328	10145
17	13854	12183	13348	13407	12662	10027	9224	6777	9574	10140	10389	11930	11108	12934	12021	11956	11453	10933	10932	10559	9663	9463
18	11032	9463	10309	10353	9479	7369	6643	4872	6496	6840	6900	8352	7405	9159	8228	8141	7582	7051	7048	6663	5767	5568
19	13133	11449	12753	12820	12167	9325	8519	5949	9105	9785	10161	11739	11058	12944	12071	12043	11670	11193	11203	10914	10047	9880
2	15233	13704	14437	14473	13546	11637	10923	9071	10677	10900	10805	12099	10994	12499	11558	11402	10599	10021	9988	9430	8571	8307
20	11259	9575	10857	10923	10267	7441	6634	4087	7206	7898	8300	9882	9251	11152	10300	10289	9990	9543	9561	9329	8495	8355
21	12152	10506	11569	11623	10834	8352	7565	5299	7757	8263	8464	9990	9143	10961	10046	9981	9484	8968	8969	8611	7721	7529
22	11668	10077	10973	11019	10160	7962	7217	5284	7151	7528	7609	9071	8130	9883	8951	8862	8291	7756	7750	7351	6451	6245
23	11942	10424	11146	11184	10264	8380	7690	6072	7386	7616	7557	8912	7864	9496	8552	8429	7743	7182	7164	6692	5791	5556
24	10820	9213	10159	10209	9375	7085	6330	4371	6333	6766	6910	8415	7541	9352	8436	8370	7883	7374	7377	7040	6158	5979
25	11321	9690	10705	10758	9951	7543	6768	4627	6885	7366	7552	9073	8225	10047	9135	9073	8594	8087	8090	7751	6868	6686
26	11033	9374	10496	10554	9801	7216	6421	4103	6712	7284	7563	9121	8364	10232	9343	9305	8910	8430	8441	8156	7295	7135
27	12283	10723	11540	11581	10690	8634	7909	6078	7738	8044	8051	9455	8448	10129	9187	9076	8424	7869	7855	7402	6499	6271
28	10722	9047	10257	10320	9620	6895	6089	3636	6540	7188	7548	9126	8457	10352	9491	9474	9157	8705	8722	8487	7653	7513
29	12810	11275	12031	12069	11156	9209	8500	6742	8255	8508	8459	9814	8762	10377	9432	9304	8594	8028	8007	7513	6618	6374
3	15667	14106	14910	14950	14043	12010	11274	9294	11119	11394	11344	12680	11601	13151	12207	12061	11283	10706	10676	10132	9262	9002
30	16056	14371	15681	15748	15086	12252	11446	8869	12015	12671	13006	14574	13825	15683	14785	14734	14271	13760	13762	13403	12510	12313

To be continued on next page...

Project:
Planuojamos VE

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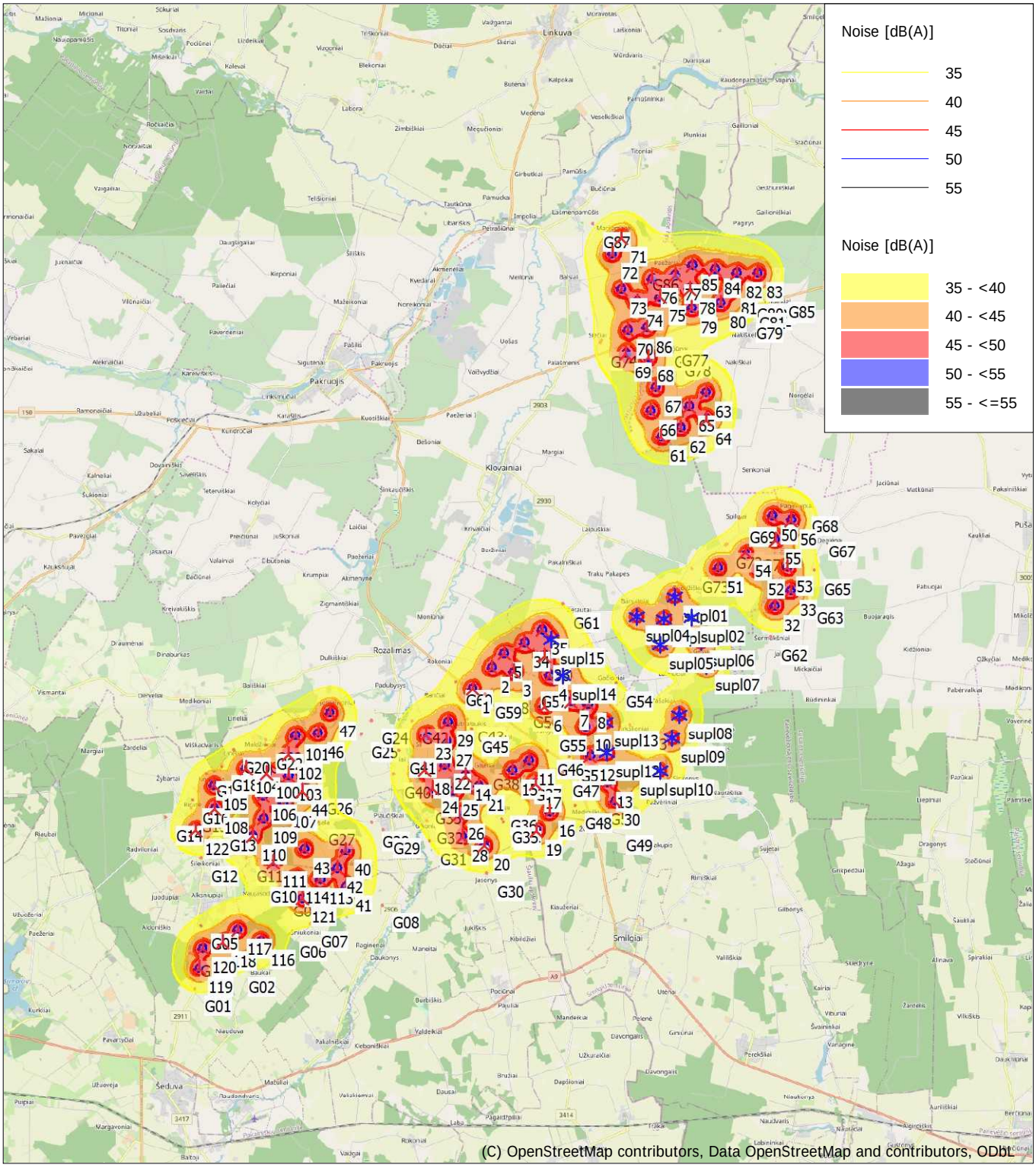
Viaceslav / gis@corpi.lt
Calculated:
2023-01-16 02:02/3.5.584

DECIBEL - Map 10,0 m/s

Calculation: VE 2 alt (suminis)



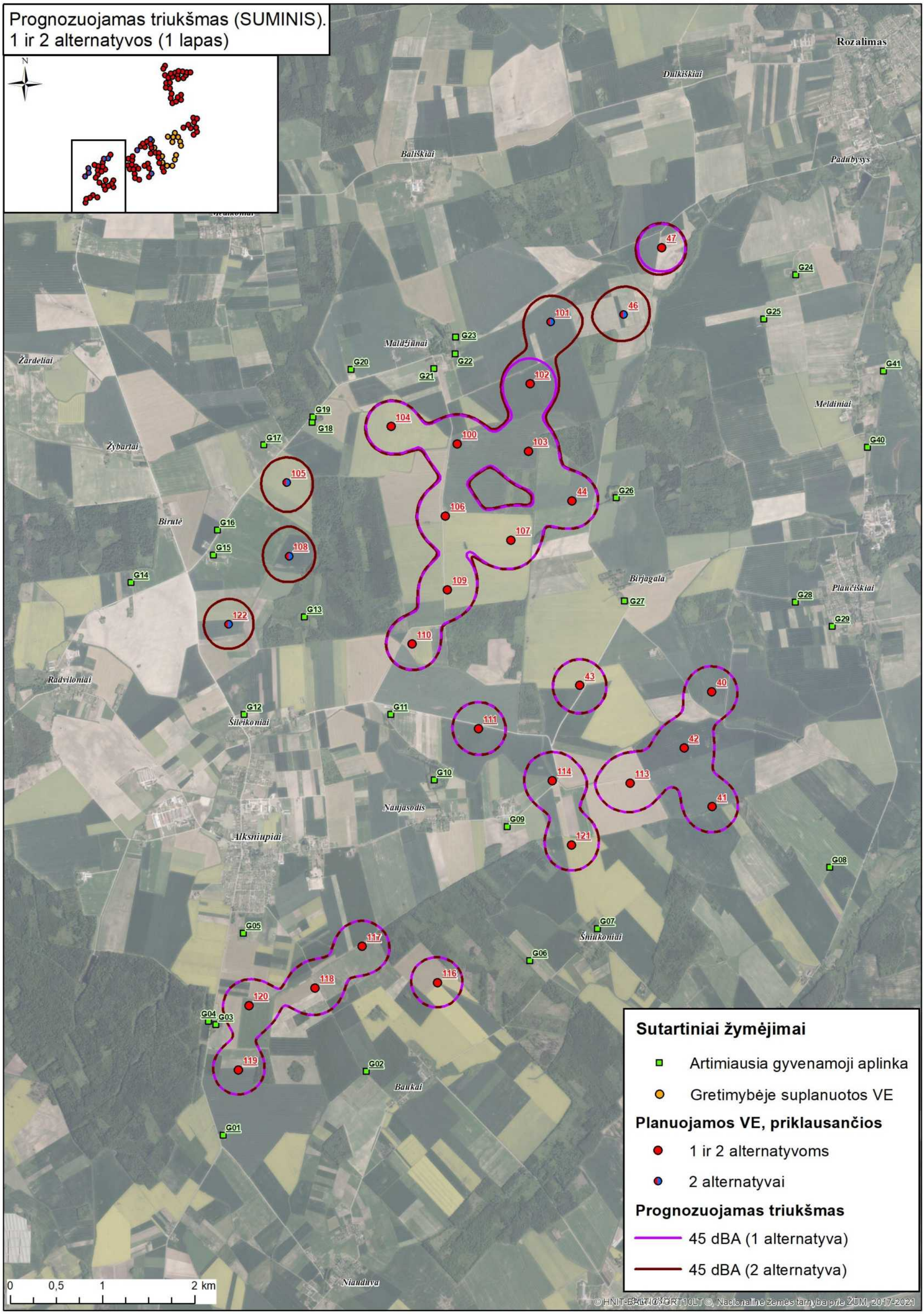
0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 496 119 North: 6 197 072

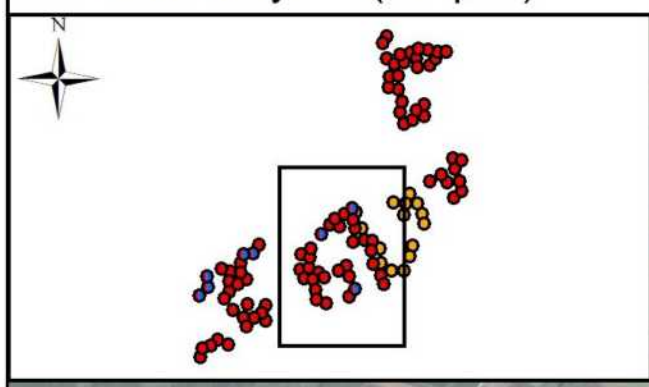
New WTG Existing WTG Noise sensitive area

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

Prognozuojamas triukšmas (SUMINIS). 1 ir 2 alternatyvos (1 lapas)



Prognozuojamas triukšmas (SUMINIS).
1 ir 2 alternatyvos (2 lapas)



Sutartiniai žymėjimai

Artimiausia gyvenamoji aplinka

Gretimybėje suplanuotos VE

Planuojamos VE, priklausančios

1 ir 2 alternatyvoms

2 alternatyvai

Prognozuojamas triukšmas

45 dBA (1 alternatyva)

45 dBA (2 alternatyva)

0 0,5 1 2 km

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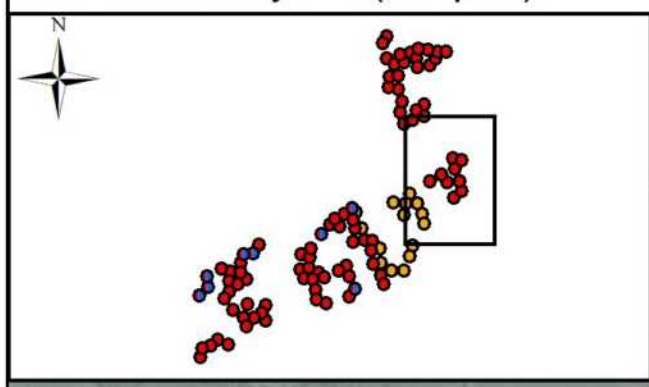
Prognozuojamas triukšmas (SUMINIS).
1 ir 2 alternatyvos (3 lapas)



Vildūnai
Spilgiai
Deglėnai
Laukugalis
Jakūboniai
Laimučiai
Šilai

G62 G63 G64 G65 G66 G67 G68 G69 G70 G71 G72 G73

50 56 55 54 51 52 53 33 32

0 0,5 1 2 km

Sutartiniai žymėjimai

- Artimiausia gyvenamoji aplinka
- Gretimybėje suplanuotos VE

Planuojamos VE, priklausančios

- 1 ir 2 alternatyvoms
- 2 alternatyvai

Prognozuojamas triukšmas

- 45 dBA (1 alternatyva)
- 45 dBA (2 alternatyva)

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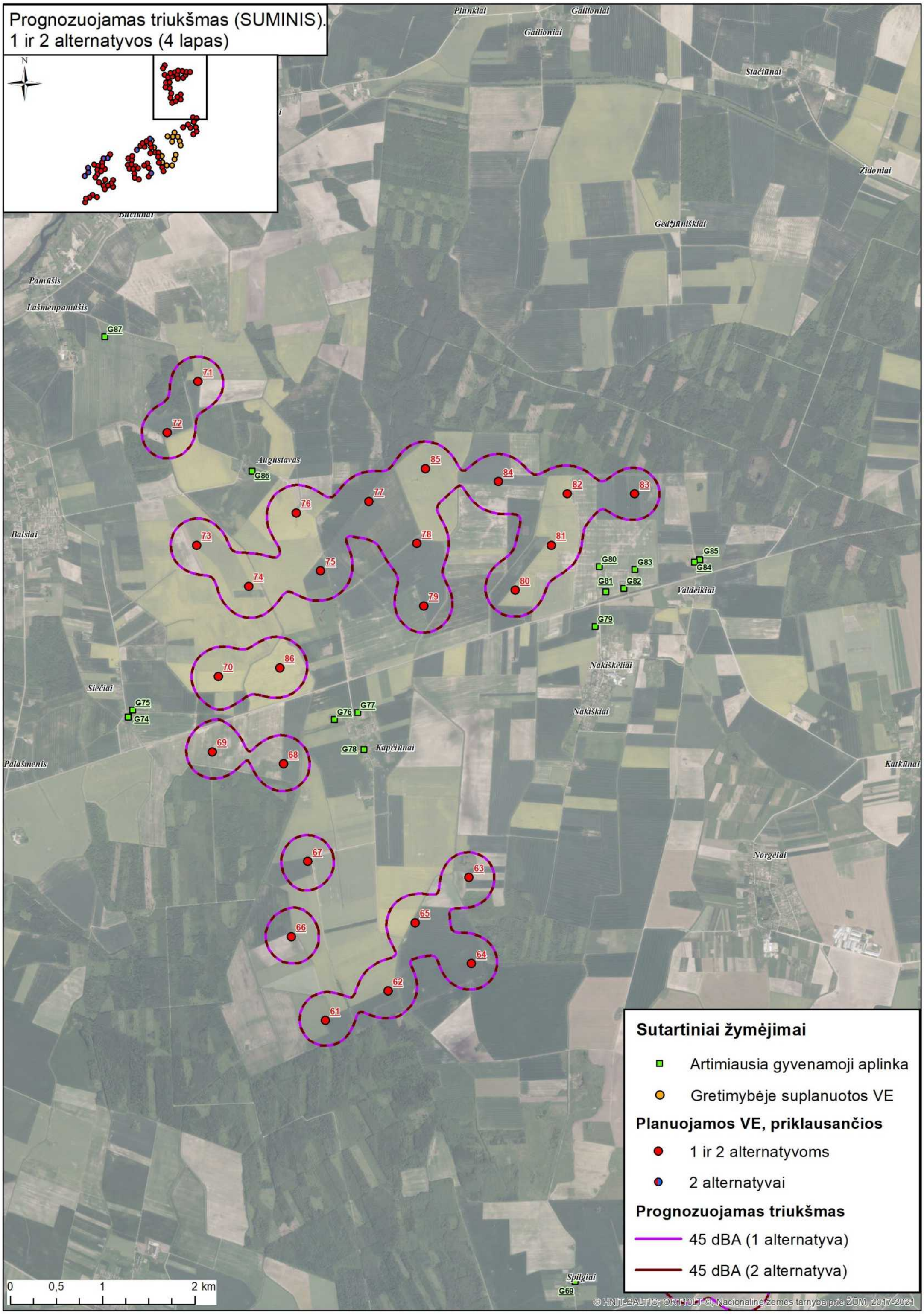
Prognozuojamas triukšmas (SUMINIS). 1 ir 2 alternatyvos (4 lapas)



8 PRIEDAS

Šešėliavimo modeliavimo rezultatai.

Šešėliavimo modeliavimo rezultatai (PŪV)

Planuojamos VE, 1 alternatyva

Blogiausias scenarijus

Project:

Planuojamos VE

Licensed user:
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Calculated:
2023-01-10 19:01/3.5.584

SHADOW - Main Result

Calculation: VE worst 1 alt

Assumptions for shadow calculations

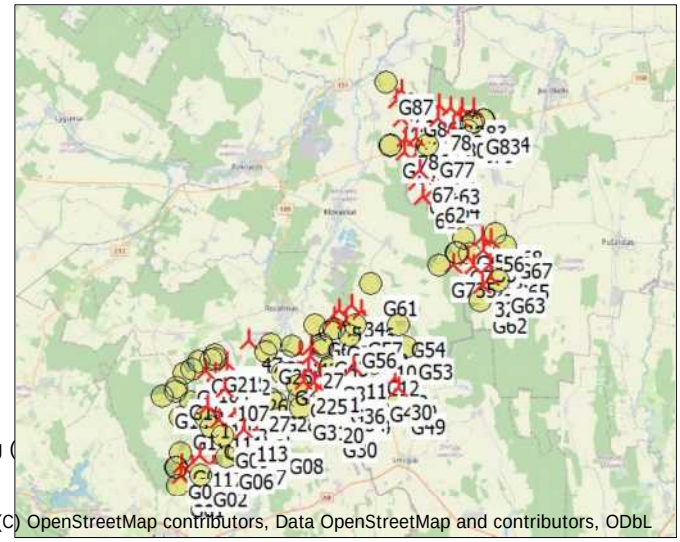
Maximum distance for influence
Calculate only when more than 20 % of sun is covered by the blade
Please look in WTG table

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

The calculated times are "worst case" given by the following assumptions:
The sun is shining all the day, from sunrise to sunset
The rotor plane is always perpendicular to the line from the WTG to the sun
The WTG is always operating

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:
Height contours used: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (
Obstacles used in calculation
Receptor grid resolution: 1,0 m

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



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

Scale 1:500 000
New WTG
Shadow receptor

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data Calculation distance [m]	RPM [RPM]
2	496 072	6 194 828	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
3	496 849	6 194 676	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
4	498 094	6 194 549	63,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
5	496 494	6 195 320	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
6	497 904	6 193 492	62,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
7	498 844	6 193 650	64,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
8	499 435	6 193 560	60,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
10	499 339	6 192 768	61,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
11	497 369	6 191 579	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
12	499 507	6 191 740	65,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
13	500 115	6 190 809	62,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
14	495 141	6 191 057	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
15	496 783	6 191 238	65,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
17	497 583	6 190 780	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
18	493 716	6 191 249	68,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
19	497 635	6 189 136	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
20	495 806	6 188 619	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
21	495 609	6 190 697	65,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
22	494 421	6 191 419	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
23	493 760	6 192 484	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
24	494 001	6 190 607	68,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
25	494 709	6 190 521	69,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
26	494 932	6 189 704	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
27	494 485	6 192 255	65,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
28	495 029	6 188 944	69,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
29	494 537	6 192 945	66,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
30	500 372	6 190 171	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
32	505 943	6 196 959	51,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
33	506 501	6 197 500	52,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
34	497 216	6 195 690	62,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
36	497 918	6 195 220	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
40	490 952	6 188 461	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
41	490 956	6 187 214	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
42	490 653	6 187 850	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
43	489 521	6 188 529	79,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
44	489 437	6 190 532	78,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
47	490 409	6 193 275	74,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
50	505 860	6 200 126	53,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
51	503 975	6 198 287	53,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

To be continued on next page...

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Calculated:
2023-01-10 19:01/3.5.584

SHADOW - Main Result

Calculation: VE worst 1 alt

...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]
52	505 377	6 198 220	53,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
53	506 394	6 198 319	53,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
54	504 944	6 198 838	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
55	505 959	6 199 299	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
56	506 528	6 199 986	49,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
61	501 980	6 202 855	53,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
62	502 661	6 203 174	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
63	503 539	6 204 406	52,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
64	503 565	6 203 472	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
65	502 954	6 203 915	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
66	501 612	6 203 764	51,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
67	501 790	6 204 579	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
68	501 526	6 205 637	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
69	500 755	6 205 769	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
70	500 821	6 206 587	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
71	500 601	6 209 783	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
72	500 267	6 209 231	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
73	500 586	6 208 007	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
74	501 149	6 207 565	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
75	501 930	6 207 730	51,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
76	501 664	6 208 359	50,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
77	502 453	6 208 484	52,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
78	502 973	6 208 028	50,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
79	503 046	6 207 349	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
80	504 037	6 207 522	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
81	504 430	6 208 007	49,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
82	504 605	6 208 569	50,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
83	505 334	6 208 566	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
84	503 858	6 208 700	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
85	503 067	6 208 838	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
86	501 486	6 206 678	50,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
100	488 194	6 191 149	80,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
102	488 982	6 191 798	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
103	488 965	6 191 068	78,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
104	487 476	6 191 336	82,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
106	488 063	6 190 365	82,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
107	488 774	6 190 102	80,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
109	488 087	6 189 566	83,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
110	487 703	6 188 978	84,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
111	488 421	6 188 060	82,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
113	490 066	6 187 468	78,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
114	489 221	6 187 494	78,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
116	487 980	6 185 307	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
117	487 161	6 185 699	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
118	486 652	6 185 248	93,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
119	485 819	6 184 360	92,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
120	485 934	6 185 058	92,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
121	489 431	6 186 798	81,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

Shadow receptor-Input

No.	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]
G01	485 653	6 183 651	94,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G02	487 204	6 184 343	91,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G03	485 575	6 184 850	93,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G04	485 494	6 184 885	93,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G05	485 874	6 185 842	93,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G06	488 977	6 185 543	87,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G07	489 711	6 185 892	85,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G08	492 228	6 186 557	76,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G09	488 735	6 186 999	85,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G10	487 944	6 187 504	90,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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2023-01-10 19:01/3.5.584

SHADOW - Main Result

Calculation: VE worst 1 alt

...continued from previous page

No.	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G11	487 471	6 188 215	88,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G12	485 882	6 188 215	90,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G13	486 534	6 189 273	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G14	484 654	6 189 647	93,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G15	485 546	6 189 943	90,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G16	485 593	6 190 214	87,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G17	486 093	6 191 136	87,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G18	486 619	6 191 381	85,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G19	486 627	6 191 441	86,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G20	487 041	6 191 957	82,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G21	487 940	6 191 965	83,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G22	488 171	6 192 124	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G23	488 172	6 192 305	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G24	491 860	6 192 984	73,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G25	491 513	6 192 503	75,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G26	489 915	6 190 563	81,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G27	490 006	6 189 447	79,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G28	491 855	6 189 434	77,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G29	492 258	6 189 168	73,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G30	495 876	6 187 667	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G31	493 884	6 188 801	72,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G32	493 787	6 189 489	71,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G33	493 703	6 190 245	72,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G34	496 464	6 189 430	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G35	496 402	6 189 549	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G36	496 357	6 189 951	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G37	497 190	6 191 028	64,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G38	495 743	6 191 361	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G39	495 816	6 191 558	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G40	492 638	6 191 111	69,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G41	492 814	6 191 939	67,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G42	493 283	6 192 971	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G43	495 207	6 193 029	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G44	495 334	6 192 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G45	495 354	6 192 693	67,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G46	497 988	6 191 917	63,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G47	498 537	6 191 168	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G48	498 979	6 190 001	68,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G49	500 379	6 189 275	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G50	499 826	6 190 188	63,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G51	498 776	6 191 701	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G52	498 746	6 191 818	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G53	500 887	6 192 830	63,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G54	500 400	6 194 286	61,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G55	498 057	6 192 740	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G56	497 149	6 193 578	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G57	497 446	6 194 266	65,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G58	496 074	6 194 052	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G59	495 830	6 193 898	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G60	494 809	6 194 324	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G61	498 558	6 197 039	61,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G62	505 805	6 195 898	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G63	507 053	6 197 207	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G64	507 058	6 197 252	54,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G65	507 315	6 198 201	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G66	507 227	6 198 598	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G67	507 475	6 199 503	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G68	506 841	6 200 422	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G69	504 690	6 200 027	56,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G70	505 156	6 199 032	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G71	504 266	6 199 133	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G72	504 215	6 199 100	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G73	503 046	6 198 254	55,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G74	499 843	6 206 143	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G75	499 893	6 206 222	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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Calculated:
2023-01-10 19:01/3.5.584

SHADOW - Main Result

Calculation: VE worst 1 alt

...continued from previous page

No.	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G76	502 078	6 206 118	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G77	502 331	6 206 194	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G78	502 400	6 205 794	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G79	504 908	6 207 129	51,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G80	504 950	6 207 777	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G81	505 021	6 207 503	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G82	505 215	6 207 540	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G83	505 338	6 207 743	50,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G84	505 983	6 207 824	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G85	506 039	6 207 854	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G86	501 184	6 208 813	55,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G87	499 589	6 210 270	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

Calculation Results

Shadow receptor

Shadow, worst case

No.	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
G01	0:00	0	0:00
G02	51:17	121	0:31
G03	174:05	213	1:15
G04	220:23	232	1:22
G05	125:43	188	0:56
G06	34:59	76	0:40
G07	8:19	30	0:23
G08	36:53	89	0:31
G09	75:49	144	0:56
G10	51:21	145	0:33
G11	37:45	84	0:43
G12	9:47	38	0:22
G13	50:04	137	0:34
G14	0:00	0	0:00
G15	0:00	0	0:00
G16	0:00	0	0:00
G17	16:34	42	0:30
G18	59:32	124	0:48
G19	55:53	116	0:48
G20	105:46	157	1:23
G21	179:18	180	1:55
G22	157:48	176	1:30
G23	128:38	153	1:24
G24	21:55	69	0:28
G25	22:40	53	0:31
G26	239:30	237	1:46
G27	129:17	218	1:08
G28	45:37	104	0:39
G29	14:04	38	0:29
G30	0:00	0	0:00
G31	31:16	78	0:37
G32	41:35	94	0:36
G33	98:46	224	0:52
G34	85:53	176	0:54
G35	112:15	251	0:53
G36	97:22	240	0:49
G37	161:05	154	1:49
G38	284:48	298	1:43
G39	212:58	315	1:11
G40	45:43	93	0:47
G41	109:24	253	0:41
G42	122:29	190	1:30
G43	119:18	216	1:00
G44	115:24	226	0:52

To be continued on next page...

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SHADOW - Main Result

Calculation: VE worst 1 alt

...continued from previous page

Shadow, worst case

No.	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
G45	149:24	275	0:51
G46	134:00	228	1:11
G47	115:47	201	1:03
G48	80:56	162	0:50
G49	0:00	0	0:00
G50	112:33	121	1:14
G51	104:48	170	0:57
G52	92:09	147	1:02
G53	45:13	137	0:27
G54	55:50	135	0:39
G55	111:04	230	0:55
G56	59:38	71	1:18
G57	192:47	250	1:31
G58	16:26	60	0:23
G59	26:01	77	0:27
G60	47:10	119	0:47
G61	12:22	44	0:23
G62	0:00	0	0:00
G63	95:22	123	1:12
G64	116:57	129	1:22
G65	86:12	201	0:45
G66	119:08	224	1:08
G67	95:58	205	0:42
G68	158:48	197	1:20
G69	64:25	157	0:36
G70	458:42	361	2:05
G71	167:03	293	0:55
G72	165:19	294	0:53
G73	44:03	70	0:55
G74	104:48	177	1:01
G75	114:00	185	1:07
G76	96:25	161	0:58
G77	102:19	195	0:46
G78	113:53	192	1:11
G79	71:57	123	0:46
G80	121:02	164	1:12
G81	37:31	79	0:42
G82	62:21	111	0:50
G83	93:55	162	0:55
G84	50:20	149	0:29
G85	40:02	126	0:28
G86	259:04	313	1:23
G87	66:19	134	0:37

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

No.	Name	Worst case [h/year]
2	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (219)	46:32
3	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (220)	24:11
4	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (221)	78:35
5	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (222)	17:53
6	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (223)	125:43
7	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (224)	33:11
8	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (225)	75:23
10	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (226)	81:23
11	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (227)	168:30
12	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (228)	166:33
13	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (229)	51:27
14	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (230)	122:50
15	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (231)	129:46
17	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (232)	269:54
18	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (233)	59:30
19	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (234)	56:59

To be continued on next page...

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SHADOW - Main Result

Calculation: VE worst 1 alt

...continued from previous page

No.	Name	Worst case [h/year]
20	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (235)	108:07
21	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (236)	126:42
22	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (237)	126:10
23	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (238)	148:15
24	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (239)	38:05
25	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (240)	98:43
26	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (241)	85:54
27	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (242)	174:22
28	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (243)	89:25
29	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (244)	243:15
30	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (245)	128:26
32	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (246)	39:09
33	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (247)	157:09
34	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (248)	12:22
36	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (249)	0:00
40	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (250)	62:54
41	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (251)	36:53
42	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (252)	24:22
43	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (253)	78:16
44	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (254)	169:31
47	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (255)	38:03
50	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (256)	86:25
51	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (257)	137:25
52	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (258)	134:51
53	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (259)	109:44
54	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (260)	343:44
55	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (261)	193:33
56	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (262)	188:20
61	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (263)	0:00
62	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (264)	0:00
63	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (265)	20:24
64	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (266)	0:00
65	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (267)	0:00
66	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (268)	0:00
67	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (269)	31:06
68	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (270)	125:18
69	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (271)	74:01
70	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (272)	134:48
71	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (273)	23:01
72	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (274)	104:43
73	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (275)	47:58
74	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (276)	10:18
75	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (277)	39:51
76	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (278)	68:18
77	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (279)	16:28
78	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (280)	14:12
79	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (281)	21:24
80	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (282)	143:16
81	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (283)	151:31
82	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (284)	37:52
83	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (285)	0:00
84	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (286)	25:54
85	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (287)	7:36
86	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (288)	63:20
100	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (289)	154:33
102	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (290)	98:07
103	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (291)	128:36
104	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (292)	239:02
106	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (293)	59:04
107	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (294)	57:49
109	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (295)	20:24
110	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (296)	29:04
111	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (297)	30:22
113	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (298)	20:55
114	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (299)	25:23
116	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (300)	36:51

To be continued on next page...

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SHADOW - Main Result

Calculation: VE worst 1 alt

...continued from previous page

No.	Name	Worst case [h/year]
117	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (301)	48:35
118	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (302)	81:26
119	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (303)	163:36
120	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (304)	203:12
121	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (305)	62:24

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.

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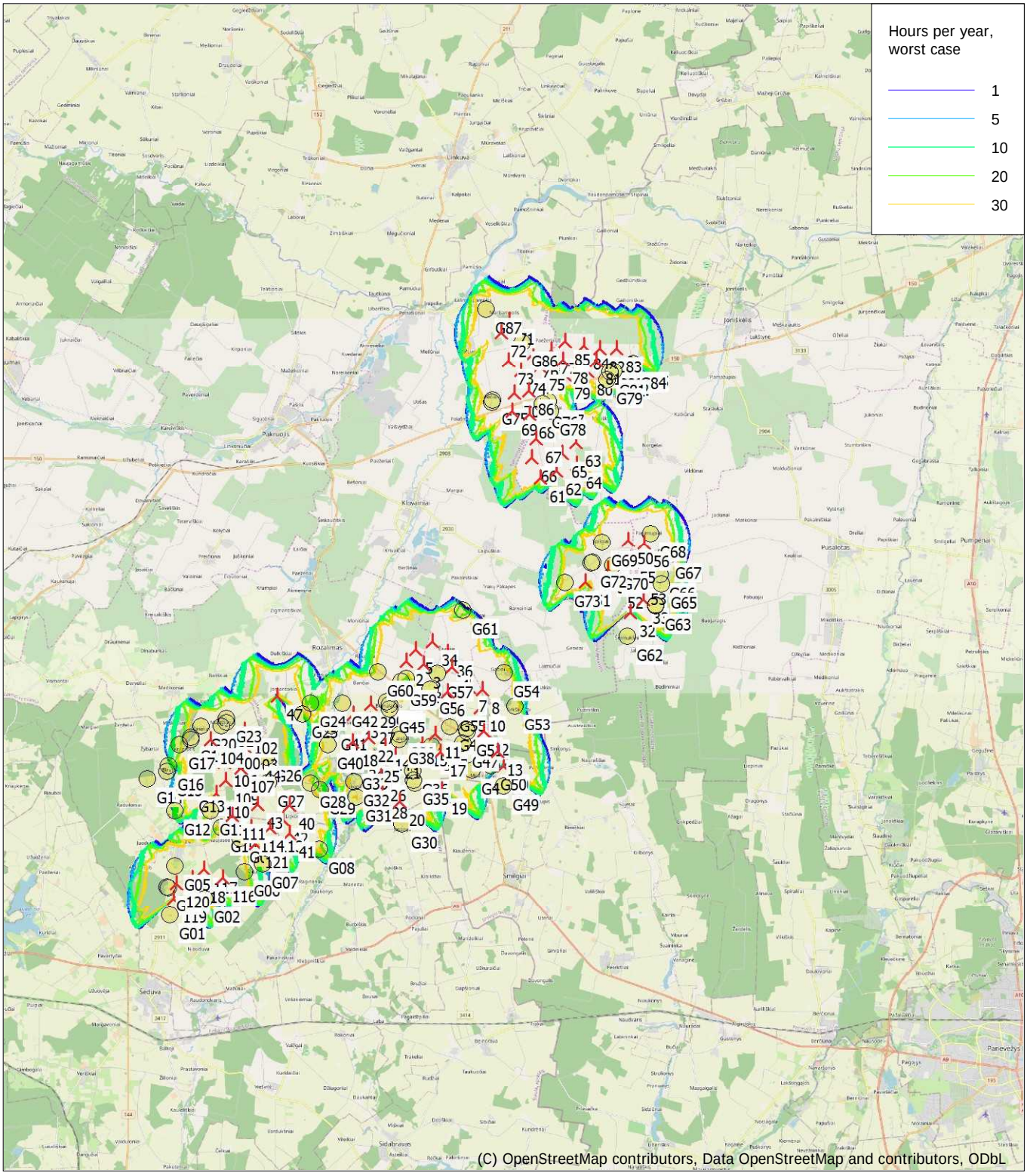
SHADOW - Map

Calculation: VE worst 1 alt



0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:250 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 499 680 North: 6 197 140

New WTG Shadow receptor

Flicker map level: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (30)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

Šešėliavimo modeliavimo rezultatai (PŪV)

Planuojamos VE, 2 alternatyva

Blogiausias scenarijus

Project:

Planuojamos VE

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SHADOW - Main Result

Calculation: VE worst 2 alt

Assumptions for shadow calculations

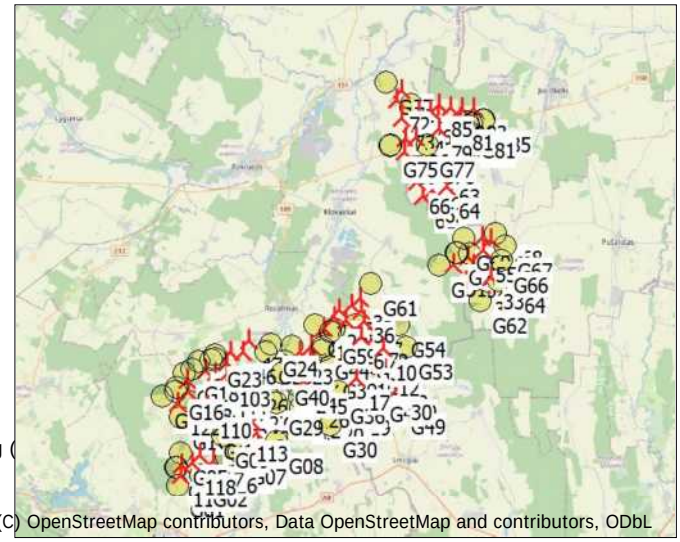
Maximum distance for influence
Calculate only when more than 20 % of sun is covered by the blade
Please look in WTG table

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

The calculated times are "worst case" given by the following assumptions:
The sun is shining all the day, from sunrise to sunset
The rotor plane is always perpendicular to the line from the WTG to the sun
The WTG is always operating

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:
Height contours used: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (
Obstacles used in calculation
Receptor grid resolution: 1,0 m

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



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

Scale 1:500 000

New WTG Shadow receptor

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data Calculation distance [m]	RPM [RPM]
1	495 390	6 194 097	63,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
2	496 072	6 194 828	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
3	496 849	6 194 676	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
4	498 094	6 194 549	63,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
5	496 494	6 195 320	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
6	497 904	6 193 492	62,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
7	498 844	6 193 650	64,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
8	499 435	6 193 560	60,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
10	499 339	6 192 768	61,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
11	497 369	6 191 579	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
12	499 507	6 191 740	65,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
13	500 115	6 190 809	62,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
14	495 141	6 191 057	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
15	496 783	6 191 238	65,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
16	498 090	6 189 790	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
17	497 583	6 190 780	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
18	493 716	6 191 249	68,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
19	497 635	6 189 136	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
20	495 806	6 188 619	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
21	495 609	6 190 697	65,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
22	494 421	6 191 419	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
23	493 760	6 192 484	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
24	494 001	6 190 607	68,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
25	494 709	6 190 521	69,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
26	494 932	6 189 704	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
27	494 485	6 192 255	65,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
28	495 029	6 188 944	69,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
29	494 537	6 192 945	66,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
30	500 372	6 190 171	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
32	505 943	6 196 959	51,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
33	506 501	6 197 500	52,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
34	497 216	6 195 690	62,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
35	497 821	6 196 141	63,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
36	497 918	6 195 220	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
40	490 952	6 188 461	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
41	490 956	6 187 214	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
42	490 653	6 187 850	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
43	489 521	6 188 529	79,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
44	489 437	6 190 532	78,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

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SHADOW - Main Result

Calculation: VE worst 2 alt

...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]
46	489 996	6 192 550	75,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
47	490 409	6 193 275	74,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
50	505 860	6 200 126	53,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
51	503 975	6 198 287	53,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
52	505 377	6 198 220	53,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
53	506 394	6 198 319	53,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
54	504 944	6 198 838	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
55	505 959	6 199 299	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
56	506 528	6 199 986	49,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
61	501 980	6 202 855	53,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
62	502 661	6 203 174	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
63	503 539	6 204 406	52,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
64	503 565	6 203 472	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
65	502 954	6 203 915	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
66	501 612	6 203 764	51,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
67	501 790	6 204 579	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
68	501 526	6 205 637	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
69	500 755	6 205 769	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
70	500 821	6 206 587	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
71	500 601	6 209 783	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
72	500 267	6 209 231	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
73	500 586	6 208 007	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
74	501 149	6 207 565	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
75	501 930	6 207 730	51,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
76	501 664	6 208 359	50,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
77	502 453	6 208 484	52,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
78	502 973	6 208 028	50,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
79	503 046	6 207 349	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
80	504 037	6 207 522	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
81	504 430	6 208 007	49,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
82	504 605	6 208 569	50,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
83	505 334	6 208 566	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
84	503 858	6 208 700	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
85	503 067	6 208 838	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
86	501 486	6 206 678	50,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
100	488 194	6 191 149	80,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
101	489 205	6 192 470	76,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
102	488 982	6 191 798	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
103	488 965	6 191 068	78,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
104	487 476	6 191 336	82,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
105	486 343	6 190 728	84,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
106	488 063	6 190 365	82,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
107	488 774	6 190 102	80,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
108	486 368	6 189 932	90,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
109	488 087	6 189 566	83,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
110	487 703	6 188 978	84,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
111	488 421	6 188 060	82,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
113	490 066	6 187 468	78,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
114	489 221	6 187 494	78,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
116	487 980	6 185 307	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
117	487 161	6 185 699	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
118	486 652	6 185 248	93,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
119	485 819	6 184 360	92,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
120	485 934	6 185 058	92,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
121	489 431	6 186 798	81,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
122	485 710	6 189 190	87,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

Shadow receptor-Input

No.	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]
G01	485 653	6 183 651	94,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G02	487 204	6 184 343	91,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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SHADOW - Main Result

Calculation: VE worst 2 alt

...continued from previous page

No.	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G03	485 575	6 184 850	93,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G04	485 494	6 184 885	93,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G05	485 874	6 185 842	93,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G06	488 977	6 185 543	87,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G07	489 711	6 185 892	85,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G08	492 228	6 186 557	76,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G09	488 735	6 186 999	85,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G10	487 944	6 187 504	90,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G11	487 471	6 188 215	88,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G12	485 882	6 188 215	90,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G13	486 534	6 189 273	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G14	484 654	6 189 647	93,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G15	485 546	6 189 943	90,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G16	485 593	6 190 214	87,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G17	486 093	6 191 136	87,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G18	486 619	6 191 381	85,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G19	486 627	6 191 441	86,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G20	487 041	6 191 957	82,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G21	487 940	6 191 965	83,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G22	488 171	6 192 124	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G23	488 172	6 192 305	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G24	491 860	6 192 984	73,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G25	491 513	6 192 503	75,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G26	489 915	6 190 563	81,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G27	490 006	6 189 447	79,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G28	491 855	6 189 434	77,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G29	492 258	6 189 168	73,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G30	495 876	6 187 667	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G31	493 884	6 188 801	72,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G32	493 787	6 189 489	71,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G33	493 703	6 190 245	72,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G34	496 464	6 189 430	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G35	496 402	6 189 549	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G36	496 357	6 189 951	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G37	497 190	6 191 028	64,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G38	495 743	6 191 361	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G39	495 816	6 191 558	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G40	492 638	6 191 111	69,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G41	492 814	6 191 939	67,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G42	493 283	6 192 971	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G43	495 207	6 193 029	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G44	495 334	6 192 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G45	495 354	6 192 693	67,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G46	497 988	6 191 917	63,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G47	498 537	6 191 168	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G48	498 979	6 190 001	68,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G49	500 379	6 189 275	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G50	499 826	6 190 188	63,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G51	498 776	6 191 701	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G52	498 746	6 191 818	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G53	500 887	6 192 830	63,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G54	500 400	6 194 286	61,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G55	498 057	6 192 740	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G56	497 149	6 193 578	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G57	497 446	6 194 266	65,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G58	496 074	6 194 052	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G59	495 830	6 193 898	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G60	494 809	6 194 324	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G61	498 558	6 197 039	61,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G62	505 805	6 195 898	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G63	507 053	6 197 207	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G64	507 058	6 197 252	54,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G65	507 315	6 198 201	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G66	507 227	6 198 598	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G67	507 475	6 199 503	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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Calculated:
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SHADOW - Main Result

Calculation: VE worst 2 alt

...continued from previous page

No.	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G68	506 841	6 200 422	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G69	504 690	6 200 027	56,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G70	505 156	6 199 032	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G71	504 266	6 199 133	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G72	504 215	6 199 100	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G73	503 046	6 198 254	55,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G74	499 843	6 206 143	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G75	499 893	6 206 222	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G76	502 078	6 206 118	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G77	502 331	6 206 194	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G78	502 400	6 205 794	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G79	504 908	6 207 129	51,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G80	504 950	6 207 777	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G81	505 021	6 207 503	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G82	505 215	6 207 540	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G83	505 338	6 207 743	50,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G84	505 983	6 207 824	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G85	506 039	6 207 854	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G86	501 184	6 208 813	55,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G87	499 589	6 210 270	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

Calculation Results

Shadow receptor

No.	Shadow, worst case: Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
G01	0:00	0	0:00
G02	51:17	121	0:31
G03	174:05	213	1:15
G04	220:23	232	1:22
G05	125:43	188	0:56
G06	34:59	76	0:40
G07	8:19	30	0:23
G08	36:53	89	0:31
G09	75:49	144	0:56
G10	51:21	145	0:33
G11	50:56	135	0:43
G12	9:47	38	0:22
G13	91:38	163	1:04
G14	52:26	152	0:36
G15	127:06	167	0:57
G16	96:00	168	0:50
G17	164:00	207	1:24
G18	158:00	208	1:16
G19	143:30	194	1:09
G20	137:39	157	1:23
G21	213:00	242	2:09
G22	204:19	276	1:30
G23	162:29	222	1:24
G24	29:08	75	0:42
G25	35:38	89	0:31
G26	239:30	237	1:46
G27	129:17	218	1:08
G28	45:37	104	0:39
G29	14:04	38	0:29
G30	0:00	0	0:00
G31	31:16	78	0:37
G32	41:35	94	0:36
G33	98:46	224	0:52
G34	97:40	182	0:54
G35	122:36	251	0:53
G36	106:20	244	0:51

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SHADOW - Main Result

Calculation: VE worst 2 alt

...continued from previous page

Shadow, worst case

No.	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
G37	192:43	232	1:49
G38	284:48	298	1:43
G39	212:58	315	1:11
G40	45:43	93	0:47
G41	109:24	253	0:41
G42	122:29	190	1:30
G43	119:18	216	1:00
G44	115:24	226	0:52
G45	149:24	275	0:51
G46	134:00	228	1:11
G47	126:13	235	1:03
G48	114:09	216	0:50
G49	0:00	0	0:00
G50	121:06	151	1:14
G51	104:48	170	0:57
G52	92:09	147	1:02
G53	45:13	137	0:27
G54	55:50	135	0:39
G55	111:04	230	0:55
G56	69:32	92	1:18
G57	192:47	250	1:31
G58	90:04	156	1:01
G59	103:40	116	1:43
G60	115:17	201	1:04
G61	46:00	74	0:57
G62	0:00	0	0:00
G63	95:22	123	1:12
G64	116:57	129	1:22
G65	86:12	201	0:45
G66	119:08	224	1:08
G67	95:58	205	0:42
G68	158:48	197	1:20
G69	64:25	157	0:36
G70	458:42	361	2:05
G71	167:03	293	0:55
G72	165:19	294	0:53
G73	44:03	70	0:55
G74	104:48	177	1:01
G75	114:00	185	1:07
G76	96:25	161	0:58
G77	102:19	195	0:46
G78	113:53	192	1:11
G79	71:57	123	0:46
G80	121:02	164	1:12
G81	37:31	79	0:42
G82	62:21	111	0:50
G83	93:55	162	0:55
G84	50:20	149	0:29
G85	40:02	126	0:28
G86	259:04	313	1:23
G87	66:19	134	0:37

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

No.	Name	Worst case [h/year]
1	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (312)	229:18
2	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (219)	46:32
3	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (220)	24:11
4	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (221)	78:35
5	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (222)	17:53
6	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (223)	125:43
7	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (224)	33:11
8	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (225)	75:23

To be continued on next page...

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Calculated:
2023-01-10 20:05/3.5.584

SHADOW - Main Result

Calculation: VE worst 2 alt

...continued from previous page

No.	Name	Worst case [h/year]
10	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (226)	81:23
11	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (227)	168:30
12	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (228)	166:33
13	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (229)	51:27
14	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (230)	122:50
15	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (231)	129:46
16	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (306)	107:14
17	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (232)	269:54
18	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (233)	59:30
19	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (234)	56:59
20	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (235)	108:07
21	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (236)	126:42
22	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (237)	126:10
23	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (238)	148:15
24	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (239)	38:05
25	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (240)	98:43
26	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (241)	85:54
27	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (242)	174:22
28	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (243)	89:25
29	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (244)	243:15
30	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (245)	128:26
32	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (246)	39:09
33	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (247)	157:09
34	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (248)	12:22
35	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (307)	34:36
36	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (249)	0:00
40	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (250)	62:54
41	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (251)	36:53
42	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (252)	24:22
43	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (253)	78:16
44	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (254)	169:31
46	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (308)	37:14
47	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (255)	38:03
50	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (256)	86:25
51	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (257)	137:25
52	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (258)	134:51
53	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (259)	109:44
54	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (260)	343:44
55	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (261)	193:33
56	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (262)	188:20
61	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (263)	0:00
62	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (264)	0:00
63	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (265)	20:24
64	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (266)	0:00
65	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (267)	0:00
66	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (268)	0:00
67	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (269)	31:06
68	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (270)	125:18
69	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (271)	74:01
70	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (272)	134:48
71	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (273)	23:01
72	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (274)	104:43
73	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (275)	47:58
74	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (276)	10:18
75	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (277)	39:51
76	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (278)	68:18
77	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (279)	16:28
78	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (280)	14:12
79	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (281)	21:24
80	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (282)	143:16
81	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (283)	151:31
82	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (284)	37:52
83	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (285)	0:00
84	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (286)	25:54
85	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (287)	7:36
86	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (288)	63:20

To be continued on next page...

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SHADOW - Main Result

Calculation: VE worst 2 alt

...continued from previous page

No.	Name	Worst case [h/year]
100	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (289)	154:33
101	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (313)	80:53
102	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (290)	98:07
103	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (291)	128:36
104	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (292)	239:02
105	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (310)	293:13
106	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (293)	59:04
107	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (294)	57:49
108	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (309)	116:25
109	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (295)	20:24
110	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (296)	29:04
111	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (297)	30:22
113	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (298)	20:55
114	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (299)	25:23
116	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (300)	36:51
117	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (301)	48:35
118	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (302)	81:26
119	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (303)	163:36
120	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (304)	203:12
121	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (305)	62:24
122	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (311)	172:16

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.

Project:
Planuojamos VE

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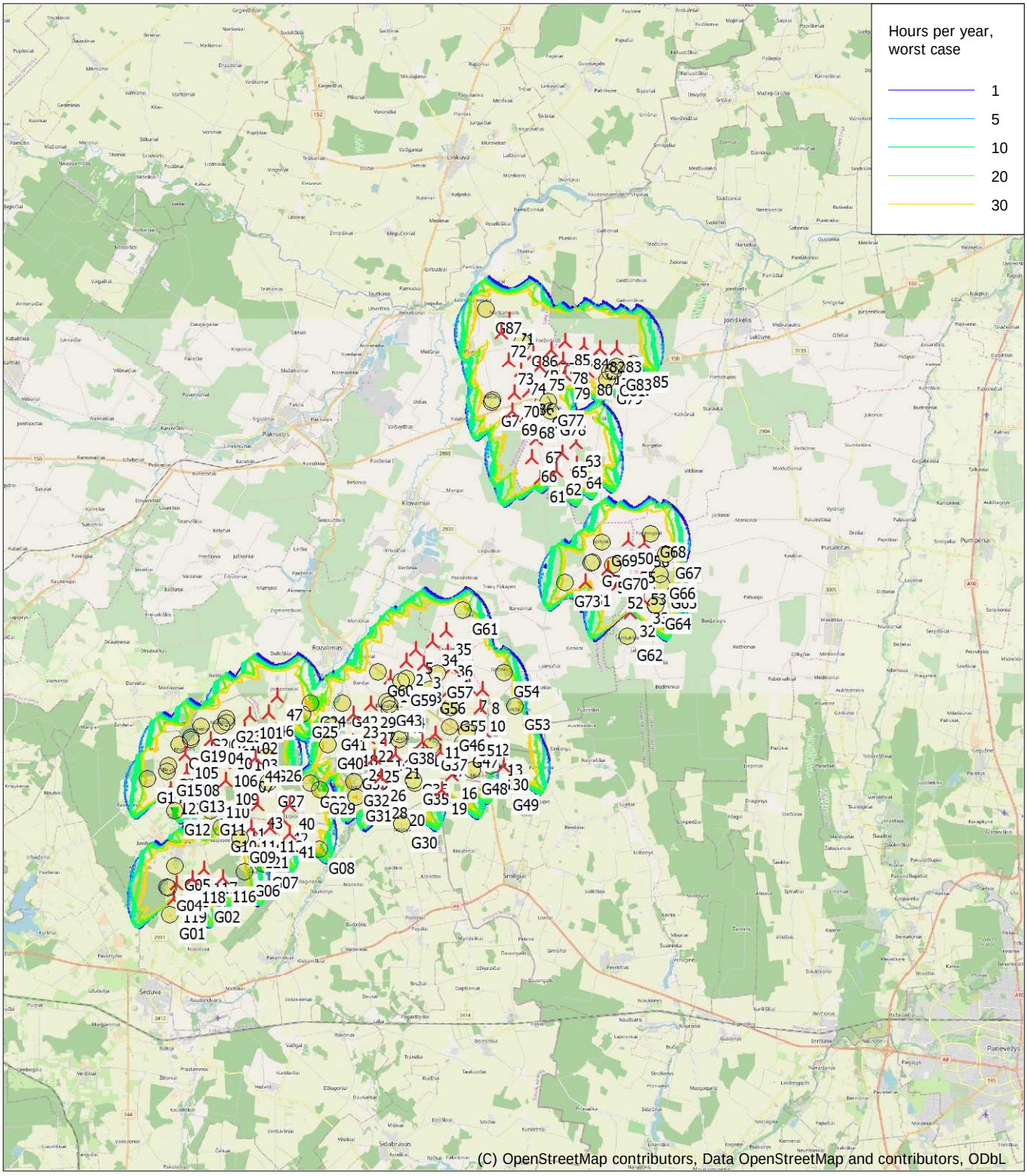
Calculated:
2023-01-10 20:05/3.5.584

SHADOW - Map

Calculation: VE worst 2 alt



0 2,5 5 7,5 10km

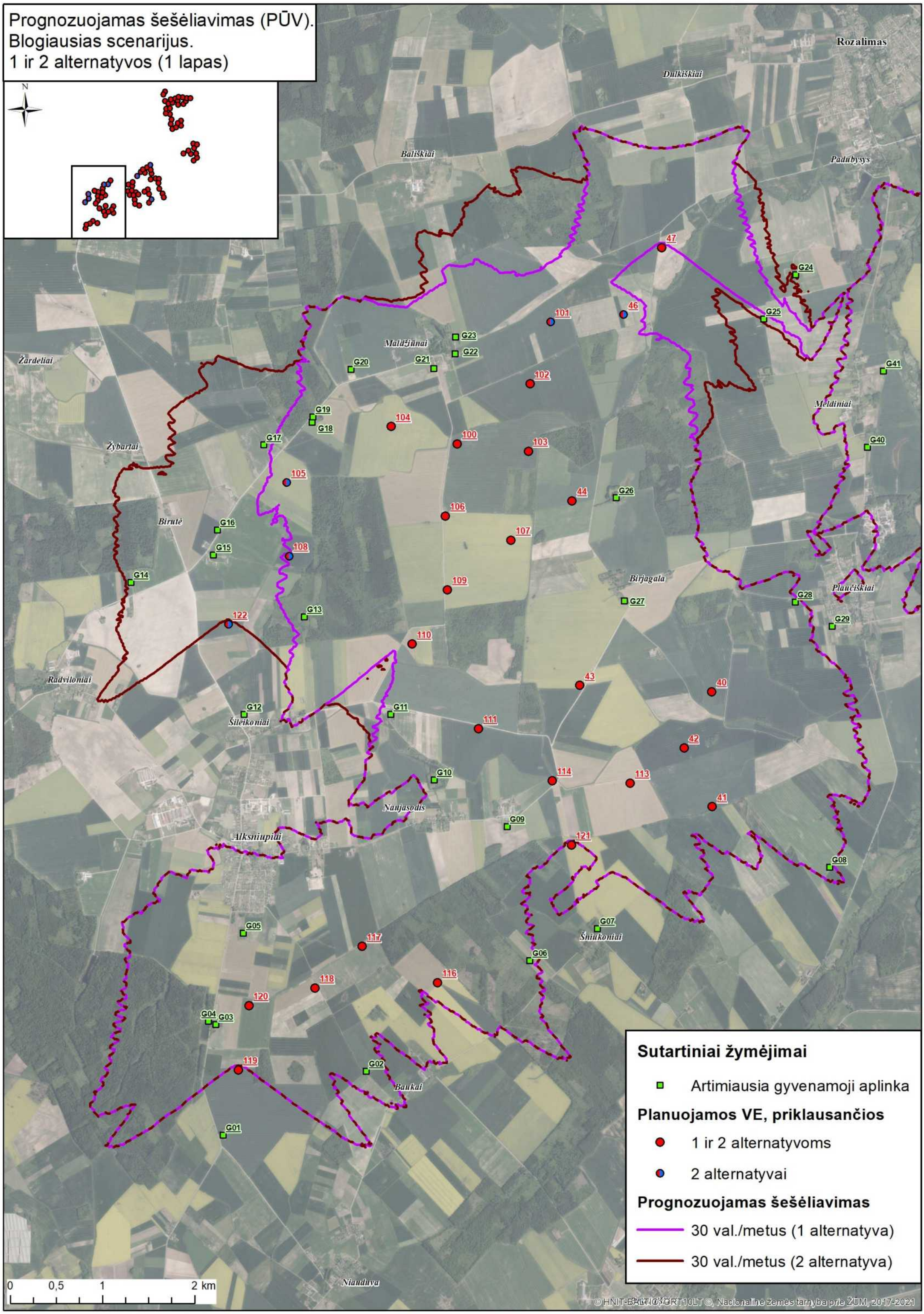
Map: EMD OpenStreetMap , Print scale 1:250 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 499 680 North: 6 197 140

New WTG Shadow receptor

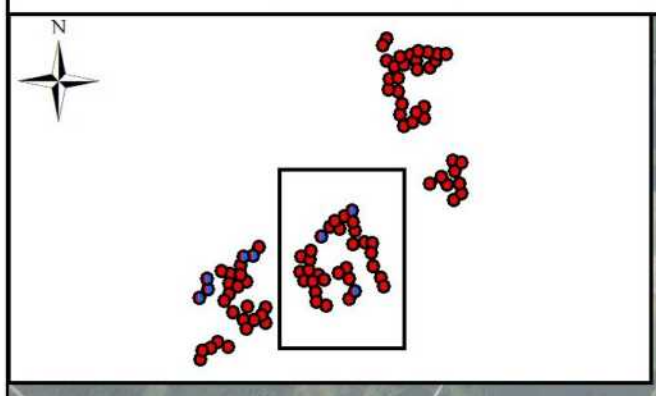
Flicker map level: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (30)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

Prognozuojamas šešėliavimas (PŪV).
Blogiausias scenarijus.
1 ir 2 alternatyvos (1 lapas)



Prognozuojamas šešėliavimas (PŪV).
Blogiausias scenarijus.
1 ir 2 alternatyvos (2 lapas)



Sutartiniai žymėjimai

Artimiausia gyvenamoji aplinka

Planuojamos VE, priklausančios

1 ir 2 alternatyvoms

2 alternatyvai

Prognozuojamas šešėliavimas

30 val./metus (1 alternatyva)

30 val./metus (2 alternatyva)

0 0,5 1 2 km

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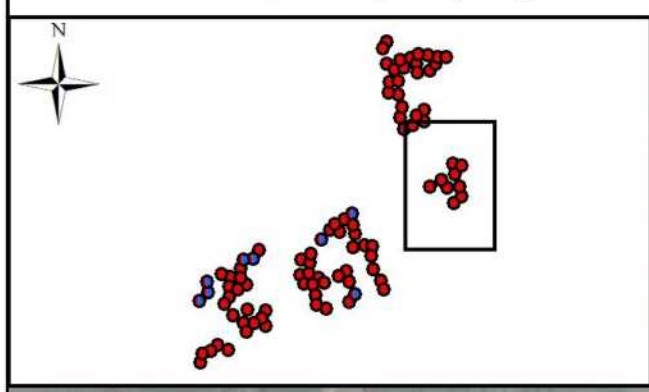
Prognozuojamas šešėliavimas (PŪV).
Blogiausias scenarijus.
1 ir 2 alternatyvos (3 lapas)



Vildūnai
Spilgiai
Deglėnai
Laukugalis
Jakūboniai
Laimučiai
Šilai

G62 G63 G64 G65 G66 G67 G68 G69 G70 G71 G72 G73

32 33 50 51 52 53 54 55 56

Sutartiniai žymėjimai

- Artimiausia gyvenamoji aplinka

Planuojamos VE, priklausančios

- 1 ir 2 alternatyvoms
- 2 alternatyvai

Prognozuojamas šešėliavimas

- 30 val./metus (1 alternatyva)
- 30 val./metus (2 alternatyva)

0 0,5 1 2 km

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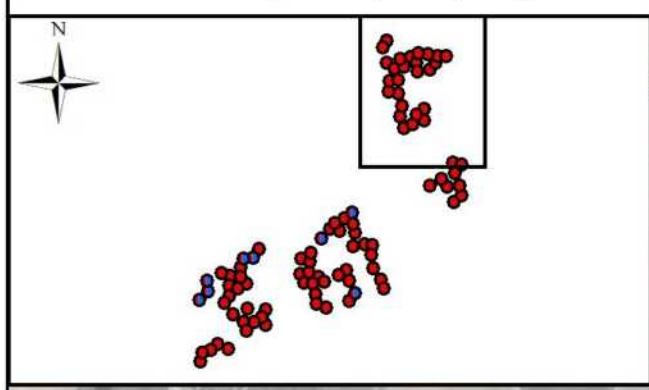
Prognozuojamas šešėliavimas (PŪV).
Blogiausias scenarijus.
1 ir 2 alternatyvos (4 lapas)



Plunkiai
Gailioniai
Gailioniai
Stačiūnai
Židoniai
Gedžiūniškiai
Pamūšis
Lašmenpamūšis
G87
71
72
Augustavas
G86
85
84
82
83
77
76
Balsiai
73
78
81
G85
G84
G80
G83
75
74
80
G81
G82
Valdeikiai
79
G79
70
86
Nakiškėliai
Siečiai
G75
G74
G76
G77
Nakiškiai
G78
Kapčiūnai
69
68
Palašmenis
Katkūnai
67
63
Norgėlai
65
66
64
62
61
Spilgiai
G69
0
0,5
1
2 km

Sutartiniai žymėjimai

Artimiausia gyvenamoji aplinka

Planuojamos VE, priklausančios

1 ir 2 alternatyvoms

2 alternatyvai

Prognozuojamas šešėliavimas

30 val./metus (1 alternatyva)

30 val./metus (2 alternatyva)

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Šešėliavimo modeliavimo rezultatai (PŪV)

Planuojamos VE, 1 alternatyva

Realus scenarijus

Project:

Planuojamos VE

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Viaceslav / gis@corpi.lt

Calculated:
2023-01-15 15:45/3.5.584

SHADOW - Main Result

Calculation: VE real 1 alt

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) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,50	1,10	2,10	3,60	4,60	5,10	4,10	3,70	2,80	1,80	0,50	0,50

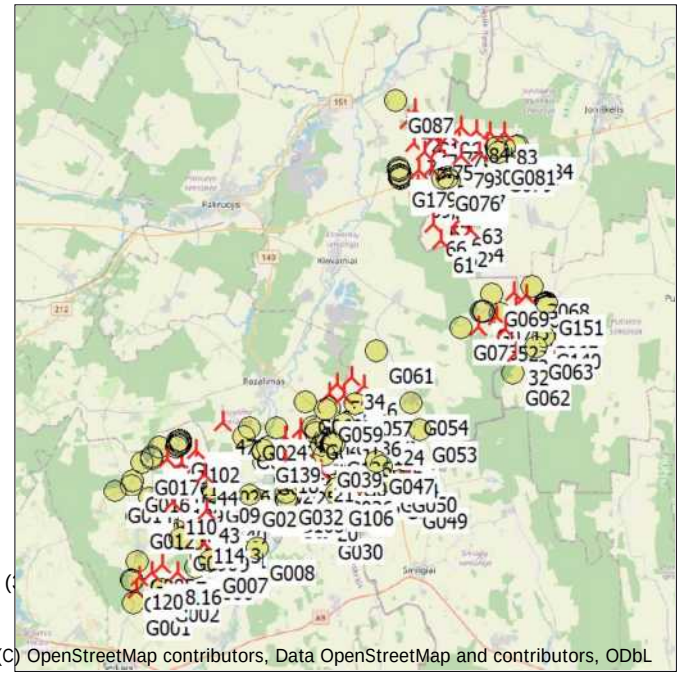
Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
220	210	244	285	296	284	405	479	705	843	872	825

W	WNW	NW	NNW	Sum
594	453	392	252	7 359

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:
Height contours used: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (
Obstacles used in calculation
Receptor grid resolution: 1,0 m

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



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

Scale 1:400 000

New WTG Shadow receptor

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data Calculation distance [m]	RPM [RPM]
2	496 072	6 194 828	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
3	496 849	6 194 676	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
4	498 094	6 194 549	63,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
5	496 494	6 195 320	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
6	497 904	6 193 492	62,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
7	498 844	6 193 650	64,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
8	499 435	6 193 560	60,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
10	499 339	6 192 768	61,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
11	497 369	6 191 579	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
12	499 507	6 191 740	65,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
13	500 115	6 190 809	62,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
14	495 141	6 191 057	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
15	496 783	6 191 238	65,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
17	497 583	6 190 780	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
18	493 716	6 191 249	68,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
19	497 635	6 189 136	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
20	495 806	6 188 619	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
21	495 609	6 190 697	65,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
22	494 421	6 191 419	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
23	493 760	6 192 484	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
24	494 001	6 190 607	68,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
25	494 709	6 190 521	69,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
26	494 932	6 189 704	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
27	494 485	6 192 255	65,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
28	495 029	6 188 944	69,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
29	494 537	6 192 945	66,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
30	500 372	6 190 171	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
32	505 943	6 196 959	51,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
33	506 501	6 197 500	52,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
34	497 216	6 195 690	62,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
36	497 918	6 195 220	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
40	490 952	6 188 461	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
41	490 956	6 187 214	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
42	490 653	6 187 850	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

To be continued on next page...

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Calculated:
2023-01-15 15:45/3.5.584

SHADOW - Main Result

Calculation: VE real 1 alt

...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]
43	489 521	6 188 529	79,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
44	489 437	6 190 532	78,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
47	490 409	6 193 275	74,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
50	505 860	6 200 126	53,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
51	503 975	6 198 287	53,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
52	505 377	6 198 220	53,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
53	506 394	6 198 319	53,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
54	504 944	6 198 838	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
55	505 959	6 199 299	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
56	506 528	6 199 986	49,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
61	501 980	6 202 855	53,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
62	502 661	6 203 174	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
63	503 539	6 204 406	52,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
64	503 565	6 203 472	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
65	502 954	6 203 915	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
66	501 612	6 203 764	51,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
67	501 790	6 204 579	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
68	501 526	6 205 637	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
69	500 755	6 205 769	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
70	500 821	6 206 587	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
71	500 601	6 209 783	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
72	500 267	6 209 231	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
73	500 586	6 208 007	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
74	501 149	6 207 565	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
75	501 930	6 207 730	51,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
76	501 664	6 208 359	50,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
77	502 453	6 208 484	52,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
78	502 973	6 208 028	50,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
79	503 046	6 207 349	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
80	504 037	6 207 522	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
81	504 430	6 208 007	49,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
82	504 605	6 208 569	50,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
83	505 334	6 208 566	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
84	503 858	6 208 700	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
85	503 067	6 208 838	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
86	501 486	6 206 678	50,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
100	488 194	6 191 149	80,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
102	488 982	6 191 798	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
103	488 965	6 191 068	78,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
104	487 476	6 191 336	82,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
106	488 063	6 190 365	82,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
107	488 774	6 190 102	80,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
109	488 087	6 189 566	83,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
110	487 703	6 188 978	84,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
111	488 421	6 188 060	82,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
113	490 066	6 187 468	78,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
114	489 221	6 187 494	78,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
116	487 980	6 185 307	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
117	487 161	6 185 699	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
118	486 652	6 185 248	93,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
119	485 819	6 184 360	92,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
120	485 934	6 185 058	92,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
121	489 431	6 186 798	81,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

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]
G001	Niauduvos k.	485 653	6 183 651	94,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G002	Bauku k. 7	487 204	6 184 343	91,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G003	Alksniupiu k., Algirdo g. 2B	485 575	6 184 850	93,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G004	Alksniupiu k., Algirdo g. 1A	485 494	6 184 885	93,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G005	Alksniupiu k., Algirdo g. 2A	485 874	6 185 842	93,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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Calculated:
2023-01-15 15:45/3.5.584

SHADOW - Main Result

Calculation: VE real 1 alt

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G006	Sniukoniu k. 1	488 977	6 185 543	87,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G007	Sniukoniu k. 11	489 711	6 185 892	85,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G008	Raginenu k. 11	492 228	6 186 557	76,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G009	Sliekiu k. 2	488 735	6 186 999	85,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G010	Naujasodzio k., Naujasodzio g. 51A	487 944	6 187 504	90,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G011	Sileikoniu k., Dauksu g. 10	487 471	6 188 215	88,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G012	Sileikoniu k., Sakos g. 8	485 882	6 188 215	90,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G013	Birutes k. 4	486 534	6 189 273	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G014	Radviloniu k., Parko g. 14	484 654	6 189 647	93,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G015	Amalijos k. 5	485 546	6 189 943	90,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G016	Amalijos k. 7	485 593	6 190 214	87,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G017	Zybartu k.	486 093	6 191 136	87,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G018	Krupiskio k. 1	486 619	6 191 381	85,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G019	Krupiskio k. 2	486 627	6 191 441	86,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G020	Lineliu k.	487 041	6 191 957	82,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G021	Maldziunu k. 1	487 940	6 191 965	83,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G022	Maldziunu k. 10	488 171	6 192 124	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G023	Maldziunu k. 14	488 172	6 192 305	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G024	Meldiniu k., Seduvos g. 1	491 860	6 192 984	73,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G025	Meldiniu k., Seduvos g. 5	491 513	6 192 503	75,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G026	Birjagalos k. 7	489 915	6 190 563	81,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G027	Birjagalos k. 12	490 006	6 189 447	79,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G028	Plauciskiu k., Birjagalos g. 17	491 855	6 189 434	77,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G029	Plauciskiu k., Sturiskiu g. 9	492 258	6 189 168	73,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G030	Jasoniu k. 6	495 876	6 187 667	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G031	Gikoniu k. 8	493 884	6 188 801	72,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G032	Gikoniu k. 3	493 787	6 189 489	71,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G033	Simaniskiu k. 4	493 703	6 190 245	72,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G034	Celkiu k. 10	496 464	6 189 430	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G035	Celkiu k. 6	496 402	6 189 549	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G036	Celkiu k. 1	496 357	6 189 951	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G037	Celkiu k.	497 190	6 191 028	64,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G038	Galeliu k. 3	495 743	6 191 361	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G039	Galeliu k. 1	495 816	6 191 558	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G040	Meldiniu k., Seduvos g. 18	492 638	6 191 111	69,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G041	Meldiniu k., Seduvos g. 6	492 814	6 191 939	67,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G042	Simaniskiu k. 3	493 283	6 192 971	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G043	Butnalaukio k. 1	495 207	6 193 029	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G044	Butnalaukio k. 3	495 334	6 192 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G045	Butnalaukio k. 4	495 354	6 192 693	67,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G046	Tarvydu k. 4	497 988	6 191 917	63,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G047	Mediniskiu k. 3	498 537	6 191 168	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G048	Mediniskiu k. 8	498 979	6 190 001	68,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G049	Zvalgu k. 4	500 379	6 189 275	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G050	Mediniskiu k. 11	499 826	6 190 188	63,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G051	Tarvydu k. 1	498 776	6 191 701	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G052	Tarvydu k. 3	498 746	6 191 818	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G053	Tirkslioniu k. 3	500 887	6 192 830	63,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G054	Gacioniu k., Mokyklos g. 1	500 400	6 194 286	61,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G055	Tarvydu k. 13	498 057	6 192 740	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G056	Vaitkunu k. 7	497 149	6 193 578	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G057	Medines vs. 1	497 446	6 194 266	65,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G058	Vaitkunu k. 2	496 074	6 194 052	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G059	Vaitkunu k. 1	495 830	6 193 898	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G060	Banciu k. 12	494 809	6 194 324	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G061	Getautu k. 6	498 558	6 197 039	61,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G062	Sermuksniu k. 1	505 805	6 195 898	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G063	Laukugalio vs. 2	507 053	6 197 207	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G064	Laukugalio vs. 1	507 058	6 197 252	54,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G065	Deglenu k., Parko g. 24	507 315	6 198 201	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G066	Deglenu k., Parko g. 15	507 227	6 198 598	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G067	Deglenu k., Pelkiu g. 2	507 475	6 199 503	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G068	Pagirnupiu k. 1	506 841	6 200 422	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G069	Spilgiu k. 5	504 690	6 200 027	56,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G070	Sitkunu k. 5	505 156	6 199 032	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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2023-01-15 15:45/3.5.584

SHADOW - Main Result

Calculation: VE real 1 alt

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G071	Sitkunu k. 3	504 266	6 199 133	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G072	Sitkunu k. 1	504 215	6 199 100	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G073	Puodziskiu k. 6	503 046	6 198 254	55,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G074	Sieciu k. 1	499 843	6 206 143	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G075	Sieciu k. 3	499 893	6 206 222	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G076	Kapciunu k., Zilviciu g. 1	502 078	6 206 118	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G077	Kapciunu k., Zilviciu g. 2	502 331	6 206 194	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G078	Kapciunu k., Zilviciu g. 13	502 400	6 205 794	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G079	Nakiskiu k., Liepu g. 1B	504 908	6 207 129	51,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G080	Valdeikiu k., Lauko g. 3A	504 950	6 207 777	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G081	Valdeikiu k., Lauko g. 7	505 021	6 207 503	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G082	Valdeikiu k., Lauko g. 5	505 215	6 207 540	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G083	Valdeikiu k., Lauko g. 3	505 338	6 207 743	50,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G084	Valdeikiu k., Alyvu g. 16	505 983	6 207 824	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G085	Valdeikiu k., Alyvu g. 7	506 039	6 207 854	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G086	Augustavo k. 1	501 184	6 208 813	55,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G087	Lasmenpamusio k., Misko g. 3	499 589	6 210 270	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G088	Naujasodzio k., Naujasodzio g., 56	488 090	6 187 037	92,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G089	Naujasodzio k., Naujasodzio g., 55	488 078	6 187 078	91,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G090	Naujasodzio k., Naujasodzio g., 57	488 123	6 187 080	91,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G091	Naujasodzio k., Naujasodzio g., 59	488 156	6 187 082	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G092	Naujasodzio k., Naujasodzio g., 61	488 232	6 187 100	86,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G093	Birjagalos k., 11	489 966	6 189 496	79,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G094	Birjagalos k., 10	489 912	6 189 587	79,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G095	Birjagalos k., 9	489 857	6 189 674	81,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G096	Birjagalos k., 8	489 822	6 189 716	80,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G097	Maldziunu k., 4	487 973	6 192 023	82,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G098	Maldziunu k., 5	487 966	6 192 059	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G099	Maldziunu k., 9	488 078	6 192 098	83,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G100	Maldziunu k., 8	487 993	6 192 263	83,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G101	Maldziunu k., 11	488 155	6 192 232	80,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G102	Maldziunu k., 13	488 131	6 192 303	81,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G103	Gikoniu k., 7	493 814	6 189 053	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G104	Gikoniu k., 6	493 788	6 189 157	69,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G105	Celkiu k., 12	496 514	6 189 399	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G106	Celkiu k., 8	496 459	6 189 458	69,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G107	Celkiu k., 7	496 424	6 189 478	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G108	Celkiu k., 6A	496 410	6 189 497	70,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G109	Celkiu k., 5	496 426	6 189 755	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G110	Celkiu k., 3	496 359	6 189 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G111	Mediniskiu k., 13	499 410	6 189 814	67,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G112	Mediniskiu k., 9	499 215	6 190 141	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G113	Mediniskiu k., 7	498 959	6 190 756	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G114	Mediniskiu k., 6	498 829	6 190 916	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G115	Mediniskiu k., 5	498 820	6 190 943	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G116	Mediniskiu k., 4	498 804	6 190 972	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G117	Mediniskiu k., 3A	498 747	6 191 062	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G118	Mediniskiu k., 2	498 812	6 191 293	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G119	Mediniskiu k., 1	498 584	6 191 327	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G120	Tarvydu k., 7A	497 970	6 192 507	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G121	Tarvydu k., 7B	497 974	6 192 537	65,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G122	Tarvydu k., 9	498 031	6 192 552	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G123	Tarvydu k., 8	497 988	6 192 603	66,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G124	Tarvydu k., 11	498 030	6 192 716	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G125	Tarvydu k., 10	497 993	6 192 731	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G126	Zvirbloniu k., Rozalimo g., 6	496 303	6 192 111	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G127	Zvirbloniu k., Rozalimo g., 8	496 269	6 192 136	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G128	Zvirbloniu k., Rozalimo g., 10	496 248	6 192 150	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G129	Zvirbloniu k., Rozalimo g., 12	496 225	6 192 166	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G130	Zvirbloniu k., Rozalimo g., 14	496 198	6 192 176	67,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G131	Zvirbloniu k., Rozalimo g., 3V	495 681	6 192 015	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G132	Zvirbloniu k., Rozalimo g., 7	495 987	6 192 212	69,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G133	Zvirbloniu k., Rozalimo g., 9	495 926	6 192 273	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G134	Zvirbloniu k., Rozalimo g., 11	495 813	6 192 321	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G135	Vaitkunu k., 3	496 802	6 193 104	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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SHADOW - Main Result

Calculation: VE real 1 alt

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G136	Vaitkunu k., 5	496 849	6 193 143	64,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G137	Meldiniu k., Seduvos g., 21	492 526	6 191 703	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G138	Meldiniu k., Seduvos g., 19	492 526	6 191 733	71,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G139	Meldiniu k., Seduvos g., 17	492 528	6 191 794	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G140	Deglenu k., Parko g., 26	507 454	6 197 833	54,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G141	Puodziskiu k., 7	504 154	6 199 097	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G142	Sitkunu k., 2	504 241	6 199 117	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G143	Deglenu k., Parko g., 16	507 628	6 199 335	55,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G144	Deglenu k., Parko g., 7	507 545	6 199 399	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G145	Deglenu k., Parko g., 14	507 645	6 199 387	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G146	Deglenu k., Parko g., 12	507 674	6 199 426	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G147	Deglenu k., Parko g., 10	507 666	6 199 465	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G148	Deglenu k., Pelkiu g., 1	507 615	6 199 514	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G149	Deglenu k., Pelkiu g., 3	507 554	6 199 535	52,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G150	Deglenu k., Pelkiu g., 9	507 493	6 199 553	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G151	Deglenu k., Pelkiu g., 5	507 558	6 199 579	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G152	Deglenu k., Pelkiu g., 7	507 517	6 199 591	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G153	Kapciunu k., Zilviciø g., 23	502 481	6 205 584	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G154	Kapciunu k., Zilviciø g., 21	502 454	6 205 669	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G155	Kapciunu k., Zilviciø g., 18	502 489	6 205 677	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G156	Kapciunu k., Zilviciø g., 19	502 436	6 205 693	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G157	Kapciunu k., Zilviciø g., 16	502 472	6 205 727	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G158	Kapciunu k., Zilviciø g., 17	502 424	6 205 733	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G159	Kapciunu k., Zilviciu g., 15	502 416	6 205 761	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G160	Kapciunu k., Zilviciø g., 14	502 445	6 205 787	53,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G161	Kapciunu k., Zilviciø g., 12	502 422	6 205 838	54,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G162	Kapciunu k., Zilviciu g., 10	502 380	6 205 918	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G163	Kapciunu k., Zilviciu g., 9	502 327	6 205 915	52,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G164	Kapciunu k., Zilviciu g., 7	502 322	6 205 934	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G165	Kapciunu k., Zilviciø g., 8	502 369	6 205 948	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G166	Kapciunu k., Zilviciu g., 5	502 321	6 205 958	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G167	Kapciunu k., Roziu g., 1	502 373	6 206 010	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G168	Kapciunu k., Roziu g., 3	502 397	6 206 025	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G169	Kapciunu k., Roziu g., 5	502 424	6 206 034	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G170	Kapciunu k., Roziu g., 7	502 449	6 206 045	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G171	Kapciunu k., Roziu g., 9	502 469	6 206 051	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G172	Kapciunu k., Roziu g., 11	502 501	6 206 061	55,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G173	Kapciunu k., Roziu g., 13	502 522	6 206 071	55,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G174	Kapciunu k., Roziu g., 4	502 492	6 206 098	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G175	Kapciunu k., Zilviciu g., 6	502 311	6 206 080	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G176	Kapciunu k., Zilviciø g., 4	502 304	6 206 109	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G177	Sieciu k., 2	499 804	6 206 197	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G178	Sieciu k., 4	499 793	6 206 279	51,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G179	Sieciu k., 5	499 791	6 206 308	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G180	Sieciu k., 10	499 793	6 206 563	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G181	Sieciu k., 11	499 762	6 206 567	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G182	Sieciu k., 12	499 759	6 206 593	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G183	Sieciu k., 13	499 742	6 206 662	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G184	Sieciu k., 14	499 744	6 206 708	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G185	Augustavo k., 3	501 069	6 208 893	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G186	Augustavo k., 4	501 084	6 208 959	51,3	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]
G001	Niauduvos k.	0:00
G002	Bauku k. 7	6:43
G003	Alksniupiu k., Algirdo g. 2B	14:13
G004	Alksniupiu k., Algirdo g. 1A	23:14
G005	Alksniupiu k., Algirdo g. 2A	6:51

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SHADOW - Main Result

Calculation: VE real 1 alt

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G006	Sniukoniu k. 1	3:53
G007	Sniukoniu k. 11	0:47
G008	Raginenu k. 11	4:58
G009	Sliekiu k. 2	8:29
G010	Naujasodzio k., Naujasodzio g. 51A	6:22
G011	Sileikoniu k., Dauksu g. 10	3:51
G012	Sileikoniu k., Sakos g. 8	1:26
G013	Birutes k. 4	6:19
G014	Radviloniu k., Parko g. 14	0:00
G015	Amalijos k. 5	0:00
G016	Amalijos k. 7	0:00
G017	Zybartu k.	2:10
G018	Krupiskio k. 1	6:24
G019	Krupiskio k. 2	5:37
G020	Lineliu k.	5:23
G021	Maldziunu k. 1	9:30
G022	Maldziunu k. 10	8:10
G023	Maldziunu k. 14	6:05
G024	Meldiniu k., Seduvos g. 1	2:32
G025	Meldiniu k., Seduvos g. 5	3:04
G026	Birjagalos k. 7	31:20
G027	Birjagalos k. 12	9:34
G028	Plauciskiu k., Birjagalos g. 17	1:48
G029	Plauciskiu k., Sturiskiu g. 9	1:09
G030	Jasoniu k. 6	0:00
G031	Gikoniu k. 8	3:54
G032	Gikoniu k. 3	4:44
G033	Simaniskiu k. 4	11:44
G034	Celkiu k. 10	6:42
G035	Celkiu k. 6	8:55
G036	Celkiu k. 1	9:34
G037	Celkiu k.	17:15
G038	Galeliu k. 3	23:17
G039	Galeliu k. 1	17:20
G040	Meldiniu k., Seduvos g. 18	5:23
G041	Meldiniu k., Seduvos g. 6	11:16
G042	Simaniskiu k. 3	8:27
G043	Butnalaukio k. 1	11:13
G044	Butnalaukio k. 3	11:23
G045	Butnalaukio k. 4	15:50
G046	Tarvydu k. 4	12:56
G047	Mediniskiu k. 3	14:44
G048	Mediniskiu k. 8	10:34
G049	Zvalgu k. 4	0:00
G050	Mediniskiu k. 11	15:00
G051	Tarvydu k. 1	11:39
G052	Tarvydu k. 3	8:56
G053	Tirkslioniu k. 3	4:52
G054	Gacioniu k., Mokyklos g. 1	3:26
G055	Tarvydu k. 13	9:32
G056	Vaitkunu k. 7	7:08
G057	Medines vs. 1	19:21
G058	Vaitkunu k. 2	1:13
G059	Vaitkunu k. 1	2:52
G060	Banciu k. 12	6:32
G061	Getautu k. 6	0:28
G062	Sermuksniu k. 1	0:00
G063	Laukugalio vs. 2	12:10
G064	Laukugalio vs. 1	15:05
G065	Deglenu k., Parko g. 24	8:57
G066	Deglenu k., Parko g. 15	11:03
G067	Deglenu k., Pelkiu g. 2	10:52
G068	Pagirnupiu k. 1	11:25
G069	Spilgiu k. 5	5:30

To be continued on next page...

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SHADOW - Main Result

Calculation: VE real 1 alt

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G070	Sitkunu k. 5	51:01
G071	Sitkunu k. 3	13:07
G072	Sitkunu k. 1	12:54
G073	Puodziskiu k. 6	5:42
G074	Sieciu k. 1	13:20
G075	Sieciu k. 3	14:06
G076	Kapciunu k., Zilviciu g. 1	9:28
G077	Kapciunu k., Zilviciu g. 2	11:44
G078	Kapciunu k., Zilviciu g. 13	9:18
G079	Nakiskiu k., Liepu g. 1B	9:35
G080	Valdeikiu k., Lauko g. 3A	15:16
G081	Valdeikiu k., Lauko g. 7	4:34
G082	Valdeikiu k., Lauko g. 5	8:05
G083	Valdeikiu k., Lauko g. 3	12:00
G084	Valdeikiu k., Alyvu g. 16	6:22
G085	Valdeikiu k., Alyvu g. 7	4:59
G086	Augustavo k. 1	20:08
G087	Lasmenpamusio k., Misko g. 3	3:19
G088	Naujasodzio k., Naujasodzio g., 56	8:30
G089	Naujasodzio k., Naujasodzio g., 55	7:49
G090	Naujasodzio k., Naujasodzio g., 57	8:38
G091	Naujasodzio k., Naujasodzio g., 59	9:27
G092	Naujasodzio k., Naujasodzio g., 61	12:10
G093	Birjagalos k., 11	9:35
G094	Birjagalos k., 10	9:32
G095	Birjagalos k., 9	8:20
G096	Birjagalos k., 8	8:11
G097	Maldziunu k., 4	8:29
G098	Maldziunu k., 5	8:01
G099	Maldziunu k., 9	7:40
G100	Maldziunu k., 8	5:58
G101	Maldziunu k., 11	6:39
G102	Maldziunu k., 13	6:03
G103	Gikoniu k., 7	8:00
G104	Gikoniu k., 6	8:26
G105	Celkiu k., 12	6:46
G106	Celkiu k., 8	6:34
G107	Celkiu k., 7	9:28
G108	Celkiu k., 6A	9:33
G109	Celkiu k., 5	6:49
G110	Celkiu k., 3	8:47
G111	Mediniskiu k., 13	9:09
G112	Mediniskiu k., 9	7:20
G113	Mediniskiu k., 7	8:04
G114	Mediniskiu k., 6	7:07
G115	Mediniskiu k., 5	6:57
G116	Mediniskiu k., 4	6:52
G117	Mediniskiu k., 3A	7:38
G118	Mediniskiu k., 2	10:07
G119	Mediniskiu k., 1	15:52
G120	Tarvydu k., 7A	8:36
G121	Tarvydu k., 7B	8:46
G122	Tarvydu k., 9	8:37
G123	Tarvydu k., 8	9:08
G124	Tarvydu k., 11	9:26
G125	Tarvydu k., 10	9:12
G126	Zvirbloniu k., Rozalimo g., 6	8:50
G127	Zvirbloniu k., Rozalimo g., 8	8:34
G128	Zvirbloniu k., Rozalimo g., 10	8:22
G129	Zvirbloniu k., Rozalimo g., 12	8:15
G130	Zvirbloniu k., Rozalimo g., 14	8:12
G131	Zvirbloniu k., Rozalimo g., 3V	10:20
G132	Zvirbloniu k., Rozalimo g., 7	8:45
G133	Zvirbloniu k., Rozalimo g., 9	8:50

To be continued on next page...

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SHADOW - Main Result

Calculation: VE real 1 alt

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G134	Zvirbloniu k., Rozalimo g., 11	10:01
G135	Vaitkunu k., 3	5:05
G136	Vaitkunu k., 5	5:20
G137	Meldiniu k., Seduvos g., 21	8:26
G138	Meldiniu k., Seduvos g., 19	8:40
G139	Meldiniu k., Seduvos g., 17	9:02
G140	Deglenu k., Parko g., 26	10:28
G141	Puodziskiu k., 7	11:41
G142	Sitkunu k., 2	13:02
G143	Deglenu k., Parko g., 16	8:38
G144	Deglenu k., Parko g., 7	9:23
G145	Deglenu k., Parko g., 14	8:59
G146	Deglenu k., Parko g., 12	8:45
G147	Deglenu k., Parko g., 10	8:31
G148	Deglenu k., Pelkiu g., 1	8:59
G149	Deglenu k., Pelkiu g., 3	10:09
G150	Deglenu k., Pelkiu g., 9	11:08
G151	Deglenu k., Pelkiu g., 5	9:24
G152	Deglenu k., Pelkiu g., 7	10:30
G153	Kapciunu k., Zilviciø g., 23	10:24
G154	Kapciunu k., Zilviciø g., 21	9:49
G155	Kapciunu k., Zilviciø g., 18	9:13
G156	Kapciunu k., Zilviciø g., 19	9:56
G157	Kapciunu k., Zilviciø g., 16	9:05
G158	Kapciunu k., Zilviciø g., 17	9:41
G159	Kapciunu k., Zilviciu g., 15	9:28
G160	Kapciunu k., Zilviciø g., 14	8:50
G161	Kapciunu k., Zilviciø g., 12	8:32
G162	Kapciunu k., Zilviciu g., 10	8:13
G163	Kapciunu k., Zilviciu g., 9	8:53
G164	Kapciunu k., Zilviciu g., 7	8:46
G165	Kapciunu k., Zilviciø g., 8	8:04
G166	Kapciunu k., Zilviciu g., 5	8:33
G167	Kapciunu k., Roziu g., 1	9:05
G168	Kapciunu k., Roziu g., 3	9:47
G169	Kapciunu k., Roziu g., 5	10:16
G170	Kapciunu k., Roziu g., 7	10:41
G171	Kapciunu k., Roziu g., 9	10:54
G172	Kapciunu k., Roziu g., 11	11:09
G173	Kapciunu k., Roziu g., 13	11:16
G174	Kapciunu k., Roziu g., 4	11:31
G175	Kapciunu k., Zilviciu g., 6	8:53
G176	Kapciunu k., Zilviciø g., 4	9:26
G177	Sieciu k., 2	11:35
G178	Sieciu k., 4	8:43
G179	Sieciu k., 5	8:10
G180	Sieciu k., 10	8:34
G181	Sieciu k., 11	8:34
G182	Sieciu k., 12	8:48
G183	Sieciu k., 13	8:39
G184	Sieciu k., 14	8:49
G185	Augustavo k., 3	19:00
G186	Augustavo k., 4	18:36

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

No.	Name	Expected [h/year]
2	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (219)	6:30
3	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (220)	3:38
4	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (221)	11:52
5	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (222)	2:38
6	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (223)	14:56
7	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (224)	3:11

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SHADOW - Main Result

Calculation: VE real 1 alt

...continued from previous page

No.	Name	Expected [h/year]
8	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (225)	11:51
10	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (226)	12:20
11	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (227)	27:15
12	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (228)	28:36
13	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (229)	12:22
14	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (230)	17:41
15	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (231)	20:41
17	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (232)	36:25
18	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (233)	8:16
19	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (234)	7:03
20	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (235)	6:20
21	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (236)	7:41
22	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (237)	12:50
23	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (238)	17:52
24	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (239)	3:06
25	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (240)	14:33
26	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (241)	21:47
27	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (242)	24:17
28	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (243)	12:53
29	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (244)	35:58
30	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (245)	29:07
32	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (246)	4:08
33	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (247)	18:09
34	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (248)	0:28
36	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (249)	0:00
40	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (250)	3:16
41	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (251)	4:58
42	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (252)	0:55
43	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (253)	7:23
44	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (254)	20:59
47	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (255)	5:01
50	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (256)	13:13
51	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (257)	10:09
52	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (258)	8:54
53	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (259)	18:37
54	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (260)	39:38
55	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (261)	24:21
56	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (262)	26:00
61	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (263)	0:00
62	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (264)	0:00
63	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (265)	2:04
64	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (266)	0:00
65	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (267)	0:00
66	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (268)	0:04
67	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (269)	3:35
68	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (270)	24:57
69	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (271)	12:25
70	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (272)	32:18
71	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (273)	1:53
72	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (274)	16:52
73	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (275)	4:11
74	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (276)	7:14
75	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (277)	1:37
76	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (278)	5:29
77	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (279)	2:27
78	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (280)	1:24
79	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (281)	2:20
80	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (282)	17:33
81	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (283)	20:09
82	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (284)	5:00
83	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (285)	0:00
84	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (286)	3:28
85	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (287)	1:29
86	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (288)	14:09
100	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (289)	9:01
102	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (290)	10:41

To be continued on next page...

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SHADOW - Main Result

Calculation: VE real 1 alt

...continued from previous page

No.	Name	Expected [h/year]
103	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (291)	10:35
104	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (292)	18:23
106	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (293)	7:08
107	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (294)	13:55
109	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (295)	4:21
110	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (296)	3:17
111	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (297)	3:16
113	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (298)	4:17
114	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (299)	12:01
116	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (300)	3:38
117	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (301)	7:54
118	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (302)	9:11
119	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (303)	9:26
120	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (304)	21:25
121	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (305)	7:38

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.

Project:
Planuojamos VE

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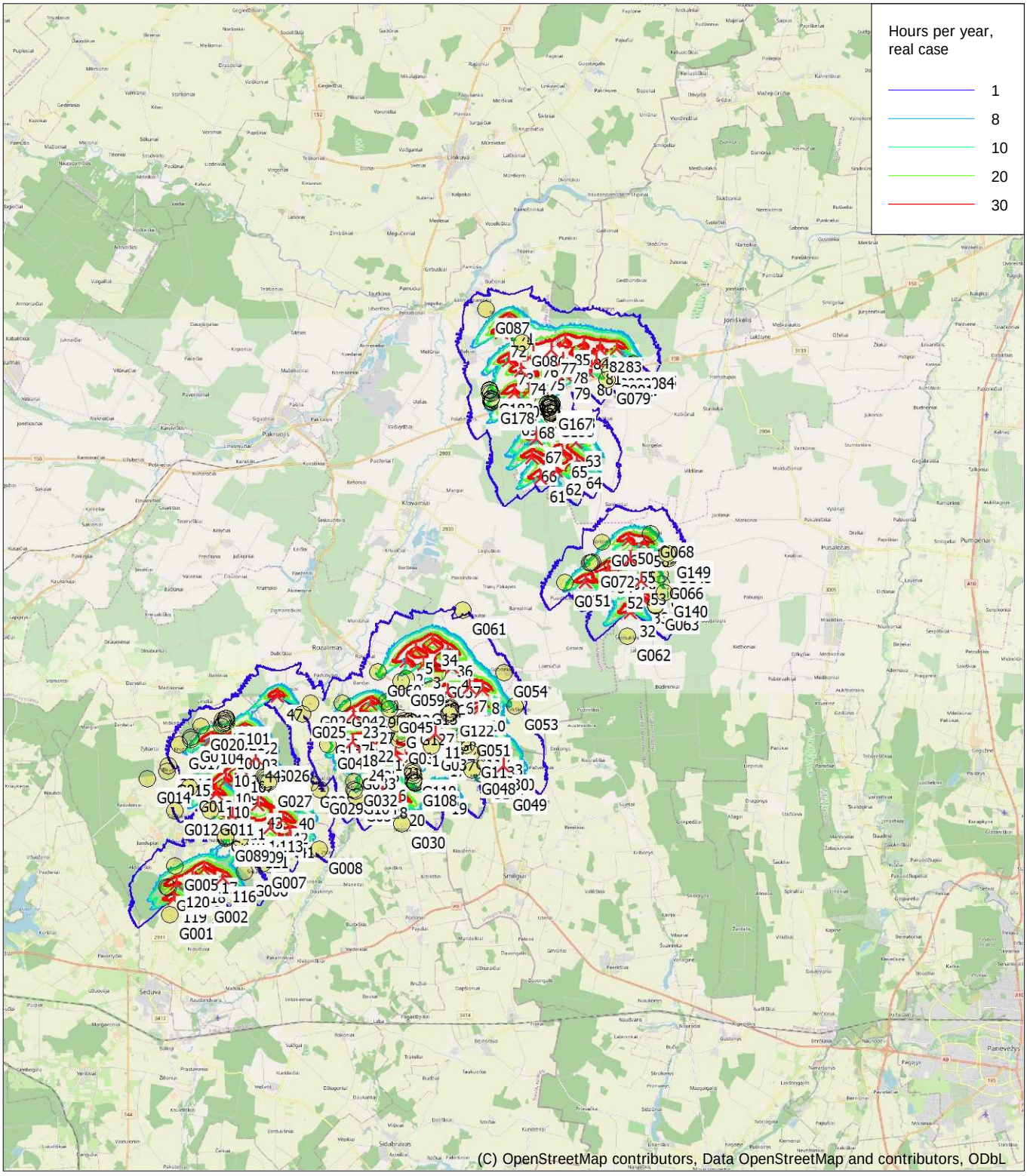
SHADOW - Map

Calculation: VE real 1 alt



0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:250 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 499 680 North: 6 197 140

New WTG Shadow receptor

Flicker map level: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (30)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

Šešėliavimo modeliavimo rezultatai (PŪV)

Planuojamos VE, 2 alternatyva

Realus scenarijus

Project:

Planuojamos VE

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SHADOW - Main Result

Calculation: VE real 2 alt

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) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,50	1,10	2,10	3,60	4,60	5,10	4,10	3,70	2,80	1,80	0,50	0,50

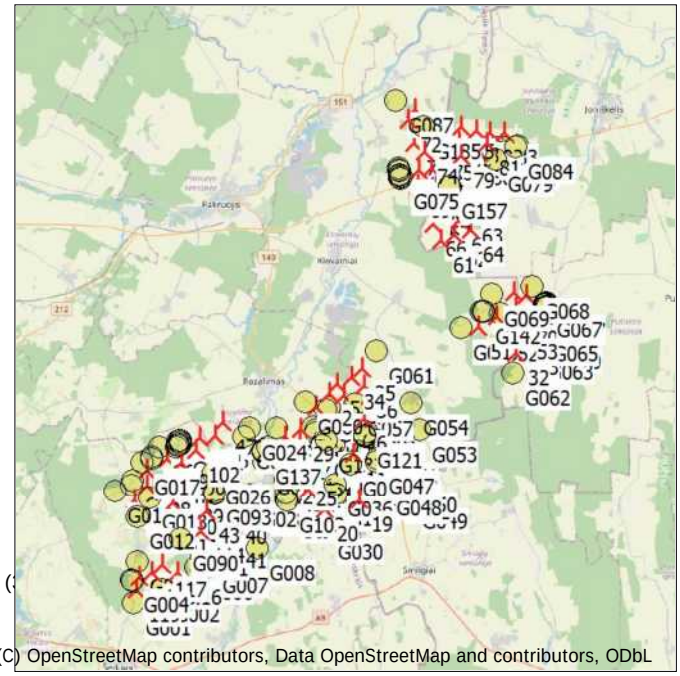
Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
220	210	244	285	296	284	405	479	705	843	872	825

W	WNW	NW	NNW	Sum
594	453	392	252	7 359

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:
Height contours used: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (
Obstacles used in calculation
Receptor grid resolution: 1,0 m

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



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

Scale 1:400 000

New WTG Shadow receptor

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data Calculation distance [m]	RPM [RPM]
1	495 390	6 194 097	63,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
2	496 072	6 194 828	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
3	496 849	6 194 676	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
4	498 094	6 194 549	63,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
5	496 494	6 195 320	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
6	497 904	6 193 492	62,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
7	498 844	6 193 650	64,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
8	499 435	6 193 560	60,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
10	499 339	6 192 768	61,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
11	497 369	6 191 579	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
12	499 507	6 191 740	65,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
13	500 115	6 190 809	62,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
14	495 141	6 191 057	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
15	496 783	6 191 238	65,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
16	498 090	6 189 790	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
17	497 583	6 190 780	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
18	493 716	6 191 249	68,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
19	497 635	6 189 136	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
20	495 806	6 188 619	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
21	495 609	6 190 697	65,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
22	494 421	6 191 419	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
23	493 760	6 192 484	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
24	494 001	6 190 607	68,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
25	494 709	6 190 521	69,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
26	494 932	6 189 704	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
27	494 485	6 192 255	65,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
28	495 029	6 188 944	69,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
29	494 537	6 192 945	66,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
30	500 372	6 190 171	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
32	505 943	6 196 959	51,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
33	506 501	6 197 500	52,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
34	497 216	6 195 690	62,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
35	497 821	6 196 141	63,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
36	497 918	6 195 220	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

To be continued on next page...

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Calculated:
2023-01-15 16:16/3.5.584

SHADOW - Main Result

Calculation: VE real 2 alt

...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]
40	490 952	6 188 461	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
41	490 956	6 187 214	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
42	490 653	6 187 850	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
43	489 521	6 188 529	79,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
44	489 437	6 190 532	78,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
46	489 996	6 192 550	75,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
47	490 409	6 193 275	74,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
50	505 860	6 200 126	53,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
51	503 975	6 198 287	53,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
52	505 377	6 198 220	53,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
53	506 394	6 198 319	53,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
54	504 944	6 198 838	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
55	505 959	6 199 299	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
56	506 528	6 199 986	49,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
61	501 980	6 202 855	53,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
62	502 661	6 203 174	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
63	503 539	6 204 406	52,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
64	503 565	6 203 472	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
65	502 954	6 203 915	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
66	501 612	6 203 764	51,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
67	501 790	6 204 579	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
68	501 526	6 205 637	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
69	500 755	6 205 769	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
70	500 821	6 206 587	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
71	500 601	6 209 783	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
72	500 267	6 209 231	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
73	500 586	6 208 007	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
74	501 149	6 207 565	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
75	501 930	6 207 730	51,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
76	501 664	6 208 359	50,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
77	502 453	6 208 484	52,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
78	502 973	6 208 028	50,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
79	503 046	6 207 349	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
80	504 037	6 207 522	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
81	504 430	6 208 007	49,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
82	504 605	6 208 569	50,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
83	505 334	6 208 566	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
84	503 858	6 208 700	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
85	503 067	6 208 838	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
86	501 486	6 206 678	50,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
100	488 194	6 191 149	80,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
101	489 205	6 192 470	76,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
102	488 982	6 191 798	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
103	488 965	6 191 068	78,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
104	487 476	6 191 336	82,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
105	486 343	6 190 728	84,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
106	488 063	6 190 365	82,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
107	488 774	6 190 102	80,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
108	486 368	6 189 932	90,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
109	488 087	6 189 566	83,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
110	487 703	6 188 978	84,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
111	488 421	6 188 060	82,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
113	490 066	6 187 468	78,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
114	489 221	6 187 494	78,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
116	487 980	6 185 307	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
117	487 161	6 185 699	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
118	486 652	6 185 248	93,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
119	485 819	6 184 360	92,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
120	485 934	6 185 058	92,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
121	489 431	6 186 798	81,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
122	485 710	6 189 190	87,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

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Calculated:
2023-01-15 16:16/3.5.584

SHADOW - Main Result

Calculation: VE real 2 alt

Shadow receptor-Input

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G001	Niauduvos k.	485 653	6 183 651	94,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G002	Bauku k. 7	487 204	6 184 343	91,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G003	Alksniupiu k., Algirdo g. 2B	485 575	6 184 850	93,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G004	Alksniupiu k., Algirdo g. 1A	485 494	6 184 885	93,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G005	Alksniupiu k., Algirdo g. 2A	485 874	6 185 842	93,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G006	Sniukoniu k. 1	488 977	6 185 543	87,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G007	Sniukoniu k. 11	489 711	6 185 892	85,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G008	Raginenu k. 11	492 228	6 186 557	76,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G009	Sliekiu k. 2	488 735	6 186 999	85,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G010	Naujasodzio k., Naujasodzio g. 51A	487 944	6 187 504	90,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G011	Sileikoniu k., Dauksu g. 10	487 471	6 188 215	88,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G012	Sileikoniu k., Sakos g. 8	485 882	6 188 215	90,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G013	Birutes k. 4	486 534	6 189 273	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G014	Radviloniu k., Parko g. 14	484 654	6 189 647	93,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G015	Amalijos k. 5	485 546	6 189 943	90,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G016	Amalijos k. 7	485 593	6 190 214	87,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G017	Zybartu k.	486 093	6 191 136	87,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G018	Krupiskio k. 1	486 619	6 191 381	85,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G019	Krupiskio k. 2	486 627	6 191 441	86,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G020	Lineliu k.	487 041	6 191 957	82,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G021	Maldziunu k. 1	487 940	6 191 965	83,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G022	Maldziunu k. 10	488 171	6 192 124	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G023	Maldziunu k. 14	488 172	6 192 305	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G024	Meldiniu k., Seduvos g. 1	491 860	6 192 984	73,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G025	Meldiniu k., Seduvos g. 5	491 513	6 192 503	75,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G026	Birjagalos k. 7	489 915	6 190 563	81,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G027	Birjagalos k. 12	490 006	6 189 447	79,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G028	Plauciskiu k., Birjagalos g. 17	491 855	6 189 434	77,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G029	Plauciskiu k., Sturiskiu g. 9	492 258	6 189 168	73,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G030	Jasoniu k. 6	495 876	6 187 667	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G031	Gikoniu k. 8	493 884	6 188 801	72,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G032	Gikoniu k. 3	493 787	6 189 489	71,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G033	Simaniskiu k. 4	493 703	6 190 245	72,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G034	Celkiu k. 10	496 464	6 189 430	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G035	Celkiu k. 6	496 402	6 189 549	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G036	Celkiu k. 1	496 357	6 189 951	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G037	Celkiu k.	497 190	6 191 028	64,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G038	Galeliu k. 3	495 743	6 191 361	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G039	Galeliu k. 1	495 816	6 191 558	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G040	Meldiniu k., Seduvos g. 18	492 638	6 191 111	69,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G041	Meldiniu k., Seduvos g. 6	492 814	6 191 939	67,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G042	Simaniskiu k. 3	493 283	6 192 971	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G043	Butnalaukio k. 1	495 207	6 193 029	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G044	Butnalaukio k. 3	495 334	6 192 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G045	Butnalaukio k. 4	495 354	6 192 693	67,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G046	Tarvydu k. 4	497 988	6 191 917	63,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G047	Mediniskiu k. 3	498 537	6 191 168	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G048	Mediniskiu k. 8	498 979	6 190 001	68,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G049	Zvalgu k. 4	500 379	6 189 275	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G050	Mediniskiu k. 11	499 826	6 190 188	63,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G051	Tarvydu k. 1	498 776	6 191 701	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G052	Tarvydu k. 3	498 746	6 191 818	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G053	Tirkslioniu k. 3	500 887	6 192 830	63,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G054	Gacioniu k., Mokyklos g. 1	500 400	6 194 286	61,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G055	Tarvydu k. 13	498 057	6 192 740	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G056	Vaitkunu k. 7	497 149	6 193 578	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G057	Medines vs. 1	497 446	6 194 266	65,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G058	Vaitkunu k. 2	496 074	6 194 052	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G059	Vaitkunu k. 1	495 830	6 193 898	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G060	Banciu k. 12	494 809	6 194 324	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G061	Getautu k. 6	498 558	6 197 039	61,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G062	Sermuksniu k. 1	505 805	6 195 898	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G063	Laukugalio vs. 2	507 053	6 197 207	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G064	Laukugalio vs. 1	507 058	6 197 252	54,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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2023-01-15 16:16/3.5.584

SHADOW - Main Result

Calculation: VE real 2 alt

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G065	Deglenu k., Parko g. 24	507 315	6 198 201	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G066	Deglenu k., Parko g. 15	507 227	6 198 598	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G067	Deglenu k., Pelkiu g. 2	507 475	6 199 503	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G068	Pagirnupiu k. 1	506 841	6 200 422	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G069	Spilgiu k. 5	504 690	6 200 027	56,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G070	Sitkunu k. 5	505 156	6 199 032	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G071	Sitkunu k. 3	504 266	6 199 133	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G072	Sitkunu k. 1	504 215	6 199 100	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G073	Puodziskiu k. 6	503 046	6 198 254	55,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G074	Sieciu k. 1	499 843	6 206 143	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G075	Sieciu k. 3	499 893	6 206 222	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G076	Kapciunu k., Zilviciu g. 1	502 078	6 206 118	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G077	Kapciunu k., Zilviciu g. 2	502 331	6 206 194	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G078	Kapciunu k., Zilviciu g. 13	502 400	6 205 794	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G079	Nakiskiu k., Liepu g. 1B	504 908	6 207 129	51,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G080	Valdeikiu k., Lauko g. 3A	504 950	6 207 777	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G081	Valdeikiu k., Lauko g. 7	505 021	6 207 503	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G082	Valdeikiu k., Lauko g. 5	505 215	6 207 540	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G083	Valdeikiu k., Lauko g. 3	505 338	6 207 743	50,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G084	Valdeikiu k., Alyvu g. 16	505 983	6 207 824	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G085	Valdeikiu k., Alyvu g. 7	506 039	6 207 854	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G086	Augustavo k. 1	501 184	6 208 813	55,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G087	Lasmenpamusio k., Misko g. 3	499 589	6 210 270	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G088	Naujasodzio k., Naujasodzio g., 56	488 090	6 187 037	92,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G089	Naujasodzio k., Naujasodzio g., 55	488 078	6 187 078	91,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G090	Naujasodzio k., Naujasodzio g., 57	488 123	6 187 080	91,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G091	Naujasodzio k., Naujasodzio g., 59	488 156	6 187 082	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G092	Naujasodzio k., Naujasodzio g., 61	488 232	6 187 100	86,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G093	Birjagalos k., 11	489 966	6 189 496	79,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G094	Birjagalos k., 10	489 912	6 189 587	79,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G095	Birjagalos k., 9	489 857	6 189 674	81,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G096	Birjagalos k., 8	489 822	6 189 716	80,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G097	Maldziunu k., 4	487 973	6 192 023	82,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G098	Maldziunu k., 5	487 966	6 192 059	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G099	Maldziunu k., 9	488 078	6 192 098	83,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G100	Maldziunu k., 8	487 993	6 192 263	83,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G101	Maldziunu k., 11	488 155	6 192 232	80,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G102	Maldziunu k., 13	488 131	6 192 303	81,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G103	Gikoniu k., 7	493 814	6 189 053	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G104	Gikoniu k., 6	493 788	6 189 157	69,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G105	Celkiu k., 12	496 514	6 189 399	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G106	Celkiu k., 8	496 459	6 189 458	69,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G107	Celkiu k., 7	496 424	6 189 478	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G108	Celkiu k., 6A	496 410	6 189 497	70,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G109	Celkiu k., 5	496 426	6 189 755	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G110	Celkiu k., 3	496 359	6 189 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G111	Mediniskiu k., 13	499 410	6 189 814	67,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G112	Mediniskiu k., 9	499 215	6 190 141	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G113	Mediniskiu k., 7	498 959	6 190 756	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G114	Mediniskiu k., 6	498 829	6 190 916	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G115	Mediniskiu k., 5	498 820	6 190 943	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G116	Mediniskiu k., 4	498 804	6 190 972	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G117	Mediniskiu k., 3A	498 747	6 191 062	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G118	Mediniskiu k., 2	498 812	6 191 293	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G119	Mediniskiu k., 1	498 584	6 191 327	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G120	Tarvydu k., 7A	497 970	6 192 507	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G121	Tarvydu k., 7B	497 974	6 192 537	65,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G122	Tarvydu k., 9	498 031	6 192 552	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G123	Tarvydu k., 8	497 988	6 192 603	66,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G124	Tarvydu k., 11	498 030	6 192 716	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G125	Tarvydu k., 10	497 993	6 192 731	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G126	Zvirbloniu k., Rozalimo g., 6	496 303	6 192 111	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G127	Zvirbloniu k., Rozalimo g., 8	496 269	6 192 136	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G128	Zvirbloniu k., Rozalimo g., 10	496 248	6 192 150	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G129	Zvirbloniu k., Rozalimo g., 12	496 225	6 192 166	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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SHADOW - Main Result

Calculation: VE real 2 alt

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G130	Zvirbloniu k., Rozalimo g., 14	496 198	6 192 176	67,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G131	Zvirbloniu k., Rozalimo g., 3V	495 681	6 192 015	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G132	Zvirbloniu k., Rozalimo g., 7	495 987	6 192 212	69,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G133	Zvirbloniu k., Rozalimo g., 9	495 926	6 192 273	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G134	Zvirbloniu k., Rozalimo g., 11	495 813	6 192 321	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G135	Vaitkunu k., 3	496 802	6 193 104	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G136	Vaitkunu k., 5	496 849	6 193 143	64,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G137	Meldiniu k., Seduvos g., 21	492 526	6 191 703	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G138	Meldiniu k., Seduvos g., 19	492 526	6 191 733	71,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G139	Meldiniu k., Seduvos g., 17	492 528	6 191 794	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G140	Deglenu k., Parko g., 26	507 454	6 197 833	54,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G141	Puodziskiu k., 7	504 154	6 199 097	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G142	Sitkunu k., 2	504 241	6 199 117	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G143	Deglenu k., Parko g., 16	507 628	6 199 335	55,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G144	Deglenu k., Parko g., 7	507 545	6 199 399	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G145	Deglenu k., Parko g., 14	507 645	6 199 387	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G146	Deglenu k., Parko g., 12	507 674	6 199 426	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G147	Deglenu k., Parko g., 10	507 666	6 199 465	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G148	Deglenu k., Pelkiu g., 1	507 615	6 199 514	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G149	Deglenu k., Pelkiu g., 3	507 554	6 199 535	52,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G150	Deglenu k., Pelkiu g., 9	507 493	6 199 553	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G151	Deglenu k., Pelkiu g., 5	507 558	6 199 579	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G152	Deglenu k., Pelkiu g., 7	507 517	6 199 591	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G153	Kapciunu k., Zilviciø g., 23	502 481	6 205 584	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G154	Kapciunu k., Zilviciø g., 21	502 454	6 205 669	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G155	Kapciunu k., Zilviciø g., 18	502 489	6 205 677	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G156	Kapciunu k., Zilviciø g., 19	502 436	6 205 693	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G157	Kapciunu k., Zilviciø g., 16	502 472	6 205 727	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G158	Kapciunu k., Zilviciø g., 17	502 424	6 205 733	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G159	Kapciunu k., Zilviciu g., 15	502 416	6 205 761	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G160	Kapciunu k., Zilviciø g., 14	502 445	6 205 787	53,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G161	Kapciunu k., Zilviciø g., 12	502 422	6 205 838	54,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G162	Kapciunu k., Zilviciu g., 10	502 380	6 205 918	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G163	Kapciunu k., Zilviciu g., 9	502 327	6 205 915	52,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G164	Kapciunu k., Zilviciu g., 7	502 322	6 205 934	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G165	Kapciunu k., Zilviciø g., 8	502 369	6 205 948	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G166	Kapciunu k., Zilviciu g., 5	502 321	6 205 958	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G167	Kapciunu k., Roziu g., 1	502 373	6 206 010	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G168	Kapciunu k., Roziu g., 3	502 397	6 206 025	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G169	Kapciunu k., Roziu g., 5	502 424	6 206 034	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G170	Kapciunu k., Roziu g., 7	502 449	6 206 045	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G171	Kapciunu k., Roziu g., 9	502 469	6 206 051	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G172	Kapciunu k., Roziu g., 11	502 501	6 206 061	55,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G173	Kapciunu k., Roziu g., 13	502 522	6 206 071	55,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G174	Kapciunu k., Roziu g., 4	502 492	6 206 098	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G175	Kapciunu k., Zilviciu g., 6	502 311	6 206 080	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G176	Kapciunu k., Zilviciø g., 4	502 304	6 206 109	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G177	Sieciu k., 2	499 804	6 206 197	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G178	Sieciu k., 4	499 793	6 206 279	51,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G179	Sieciu k., 5	499 791	6 206 308	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G180	Sieciu k., 10	499 793	6 206 563	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G181	Sieciu k., 11	499 762	6 206 567	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G182	Sieciu k., 12	499 759	6 206 593	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G183	Sieciu k., 13	499 742	6 206 662	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G184	Sieciu k., 14	499 744	6 206 708	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G185	Augustavo k., 3	501 069	6 208 893	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G186	Augustavo k., 4	501 084	6 208 959	51,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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SHADOW - Main Result

Calculation: VE real 2 alt

Calculation Results

Shadow receptor

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G001	Niauduvos k.	0:00
G002	Bauku k. 7	6:43
G003	Alksniupiu k., Algirdo g. 2B	14:13
G004	Alksniupiu k., Algirdo g. 1A	23:14
G005	Alksniupiu k., Algirdo g. 2A	6:51
G006	Sniukoniu k. 1	3:53
G007	Sniukoniu k. 11	0:47
G008	Raginenu k. 11	4:58
G009	Sliekiu k. 2	8:29
G010	Naujasodzio k., Naujasodzio g. 51A	6:22
G011	Sileikoniu k., Dauksu g. 10	5:35
G012	Sileikoniu k., Sakos g. 8	1:26
G013	Birutes k. 4	11:21
G014	Radviloniu k., Parko g. 14	6:15
G015	Amalijos k. 5	8:42
G016	Amalijos k. 7	8:14
G017	Zybartu k.	11:07
G018	Krupiskio k. 1	11:00
G019	Krupiskio k. 2	9:26
G020	Lineliu k.	6:39
G021	Maldziunu k. 1	13:34
G022	Maldziunu k. 10	14:41
G023	Maldziunu k. 14	10:36
G024	Meldiniu k., Seduvos g. 1	3:16
G025	Meldiniu k., Seduvos g. 5	4:39
G026	Birjagalos k. 7	31:20
G027	Birjagalos k. 12	9:34
G028	Plauciskiu k., Birjagalos g. 17	1:48
G029	Plauciskiu k., Sturiskiu g. 9	1:09
G030	Jasoniu k. 6	0:00
G031	Gikoniu k. 8	3:54
G032	Gikoniu k. 3	4:44
G033	Simaniskiu k. 4	11:44
G034	Celkiu k. 10	8:17
G035	Celkiu k. 6	10:16
G036	Celkiu k. 1	10:29
G037	Celkiu k.	18:18
G038	Galeliu k. 3	23:17
G039	Galeliu k. 1	17:20
G040	Meldiniu k., Seduvos g. 18	5:23
G041	Meldiniu k., Seduvos g. 6	11:16
G042	Simaniskiu k. 3	8:27
G043	Butnalaukio k. 1	11:13
G044	Butnalaukio k. 3	11:23
G045	Butnalaukio k. 4	15:50
G046	Tarvydu k. 4	12:56
G047	Mediniskiu k. 3	15:11
G048	Mediniskiu k. 8	14:12
G049	Zvalgu k. 4	0:00
G050	Mediniskiu k. 11	15:53
G051	Tarvydu k. 1	11:39
G052	Tarvydu k. 3	8:56
G053	Tirkslioniu k. 3	4:52
G054	Gacioniu k., Mokyklos g. 1	3:26
G055	Tarvydu k. 13	9:32
G056	Vaitkunu k. 7	8:24
G057	Medines vs. 1	19:21
G058	Vaitkunu k. 2	11:01
G059	Vaitkunu k. 1	13:38
G060	Banciu k. 12	13:23
G061	Getautu k. 6	1:51
G062	Sermuksniu k. 1	0:00

To be continued on next page...

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SHADOW - Main Result

Calculation: VE real 2 alt

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G063	Laukugalio vs. 2	12:10
G064	Laukugalio vs. 1	15:05
G065	Deglenu k., Parko g. 24	8:57
G066	Deglenu k., Parko g. 15	11:03
G067	Deglenu k., Pelkiu g. 2	10:52
G068	Pagirnupiu k. 1	11:25
G069	Spilgiu k. 5	5:30
G070	Sitkunu k. 5	51:01
G071	Sitkunu k. 3	13:07
G072	Sitkunu k. 1	12:54
G073	Puodziskiu k. 6	5:42
G074	Sieciu k. 1	13:20
G075	Sieciu k. 3	14:06
G076	Kapciunu k., Zilviciu g. 1	9:28
G077	Kapciunu k., Zilviciu g. 2	11:44
G078	Kapciunu k., Zilviciu g. 13	9:18
G079	Nakiskiu k., Liepu g. 1B	9:35
G080	Valdeikiu k., Lauko g. 3A	15:16
G081	Valdeikiu k., Lauko g. 7	4:34
G082	Valdeikiu k., Lauko g. 5	8:05
G083	Valdeikiu k., Lauko g. 3	12:00
G084	Valdeikiu k., Alyvu g. 16	6:22
G085	Valdeikiu k., Alyvu g. 7	4:59
G086	Augustavo k. 1	20:08
G087	Lasmenpamusio k., Misko g. 3	3:19
G088	Naujasodzio k., Naujasodzio g., 56	8:30
G089	Naujasodzio k., Naujasodzio g., 55	7:49
G090	Naujasodzio k., Naujasodzio g., 57	8:38
G091	Naujasodzio k., Naujasodzio g., 59	9:27
G092	Naujasodzio k., Naujasodzio g., 61	12:10
G093	Birjagalos k., 11	9:35
G094	Birjagalos k., 10	9:32
G095	Birjagalos k., 9	8:20
G096	Birjagalos k., 8	8:11
G097	Maldziunu k., 4	12:09
G098	Maldziunu k., 5	11:28
G099	Maldziunu k., 9	12:51
G100	Maldziunu k., 8	9:08
G101	Maldziunu k., 11	11:36
G102	Maldziunu k., 13	10:10
G103	Gikoniu k., 7	8:00
G104	Gikoniu k., 6	8:26
G105	Celkiu k., 12	8:31
G106	Celkiu k., 8	8:07
G107	Celkiu k., 7	10:54
G108	Celkiu k., 6A	10:56
G109	Celkiu k., 5	8:03
G110	Celkiu k., 3	9:47
G111	Mediniskiu k., 13	11:07
G112	Mediniskiu k., 9	9:25
G113	Mediniskiu k., 7	9:20
G114	Mediniskiu k., 6	8:44
G115	Mediniskiu k., 5	8:32
G116	Mediniskiu k., 4	8:23
G117	Mediniskiu k., 3A	8:51
G118	Mediniskiu k., 2	10:42
G119	Mediniskiu k., 1	15:56
G120	Tarvydu k., 7A	8:36
G121	Tarvydu k., 7B	8:46
G122	Tarvydu k., 9	8:37
G123	Tarvydu k., 8	9:08
G124	Tarvydu k., 11	9:26
G125	Tarvydu k., 10	9:12
G126	Zvirbloniu k., Rozalimo g., 6	8:50

To be continued on next page...

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SHADOW - Main Result

Calculation: VE real 2 alt

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G127	Zvirbloniu k., Rozalimo g., 8	8:34
G128	Zvirbloniu k., Rozalimo g., 10	8:22
G129	Zvirbloniu k., Rozalimo g., 12	8:15
G130	Zvirbloniu k., Rozalimo g., 14	8:12
G131	Zvirbloniu k., Rozalimo g., 3V	10:20
G132	Zvirbloniu k., Rozalimo g., 7	8:45
G133	Zvirbloniu k., Rozalimo g., 9	8:50
G134	Zvirbloniu k., Rozalimo g., 11	10:01
G135	Vaitkunu k., 3	7:54
G136	Vaitkunu k., 5	8:42
G137	Meldiniu k., Seduvos g., 21	8:26
G138	Meldiniu k., Seduvos g., 19	8:40
G139	Meldiniu k., Seduvos g., 17	9:02
G140	Deglenu k., Parko g., 26	10:28
G141	Puodziskiu k., 7	11:41
G142	Sitkunu k., 2	13:02
G143	Deglenu k., Parko g., 16	8:38
G144	Deglenu k., Parko g., 7	9:23
G145	Deglenu k., Parko g., 14	8:59
G146	Deglenu k., Parko g., 12	8:45
G147	Deglenu k., Parko g., 10	8:31
G148	Deglenu k., Pelkiu g., 1	8:59
G149	Deglenu k., Pelkiu g., 3	10:09
G150	Deglenu k., Pelkiu g., 9	11:08
G151	Deglenu k., Pelkiu g., 5	9:24
G152	Deglenu k., Pelkiu g., 7	10:30
G153	Kapciunu k., Zilviciø g., 23	10:24
G154	Kapciunu k., Zilviciø g., 21	9:49
G155	Kapciunu k., Zilviciø g., 18	9:13
G156	Kapciunu k., Zilviciø g., 19	9:56
G157	Kapciunu k., Zilviciø g., 16	9:05
G158	Kapciunu k., Zilviciø g., 17	9:41
G159	Kapciunu k., Zilviciu g., 15	9:28
G160	Kapciunu k., Zilviciø g., 14	8:50
G161	Kapciunu k., Zilviciø g., 12	8:32
G162	Kapciunu k., Zilviciu g., 10	8:13
G163	Kapciunu k., Zilviciu g., 9	8:53
G164	Kapciunu k., Zilviciu g., 7	8:46
G165	Kapciunu k., Zilviciø g., 8	8:04
G166	Kapciunu k., Zilviciu g., 5	8:33
G167	Kapciunu k., Roziu g., 1	9:05
G168	Kapciunu k., Roziu g., 3	9:47
G169	Kapciunu k., Roziu g., 5	10:16
G170	Kapciunu k., Roziu g., 7	10:41
G171	Kapciunu k., Roziu g., 9	10:54
G172	Kapciunu k., Roziu g., 11	11:09
G173	Kapciunu k., Roziu g., 13	11:16
G174	Kapciunu k., Roziu g., 4	11:31
G175	Kapciunu k., Zilviciu g., 6	8:53
G176	Kapciunu k., Zilviciø g., 4	9:26
G177	Sieciu k., 2	11:35
G178	Sieciu k., 4	8:43
G179	Sieciu k., 5	8:10
G180	Sieciu k., 10	8:34
G181	Sieciu k., 11	8:34
G182	Sieciu k., 12	8:48
G183	Sieciu k., 13	8:39
G184	Sieciu k., 14	8:49
G185	Augustavo k., 3	19:00
G186	Augustavo k., 4	18:36

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SHADOW - Main Result

Calculation: VE real 2 alt

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

No.	Name	Expected [h/year]
1	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (312)	32:40
2	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (219)	6:30
3	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (220)	3:38
4	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (221)	11:52
5	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (222)	2:38
6	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (223)	14:56
7	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (224)	3:11
8	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (225)	11:51
10	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (226)	12:20
11	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (227)	27:15
12	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (228)	28:36
13	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (229)	12:22
14	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (230)	17:41
15	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (231)	20:41
16	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (306)	17:19
17	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (232)	36:25
18	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (233)	8:16
19	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (234)	7:03
20	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (235)	6:20
21	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (236)	7:41
22	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (237)	12:50
23	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (238)	17:52
24	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (239)	3:06
25	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (240)	14:33
26	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (241)	21:47
27	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (242)	24:17
28	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (243)	12:53
29	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (244)	35:58
30	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (245)	29:07
32	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (246)	4:08
33	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (247)	18:09
34	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (248)	0:28
35	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (307)	1:25
36	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (249)	0:00
40	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (250)	3:16
41	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (251)	4:58
42	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (252)	0:55
43	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (253)	7:23
44	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (254)	20:59
46	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (308)	4:44
47	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (255)	5:01
50	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (256)	13:13
51	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (257)	10:09
52	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (258)	8:54
53	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (259)	18:37
54	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (260)	39:38
55	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (261)	24:21
56	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (262)	26:00
61	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (263)	0:00
62	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (264)	0:00
63	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (265)	2:04
64	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (266)	0:00
65	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (267)	0:00
66	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (268)	0:04
67	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (269)	3:35
68	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (270)	24:57
69	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (271)	12:25
70	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (272)	32:18
71	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (273)	1:53
72	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (274)	16:52
73	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (275)	4:11
74	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (276)	7:14
75	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (277)	1:37
76	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (278)	5:29
77	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (279)	2:27
78	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (280)	1:24

To be continued on next page...

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SHADOW - Main Result

Calculation: VE real 2 alt

...continued from previous page

No.	Name	Expected [h/year]
79	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (281)	2:20
80	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (282)	17:33
81	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (283)	20:09
82	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (284)	5:00
83	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (285)	0:00
84	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (286)	3:28
85	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (287)	1:29
86	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (288)	14:09
100	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (289)	9:01
101	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (313)	12:20
102	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (290)	10:41
103	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (291)	10:35
104	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (292)	18:23
105	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (310)	18:36
106	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (293)	7:08
107	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (294)	13:55
108	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (309)	11:43
109	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (295)	4:21
110	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (296)	3:17
111	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (297)	3:16
113	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (298)	4:17
114	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (299)	12:01
116	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (300)	3:38
117	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (301)	7:54
118	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (302)	9:11
119	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (303)	9:26
120	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (304)	21:25
121	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (305)	7:38
122	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (311)	12:04

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.

Project:
Planuojamos VE

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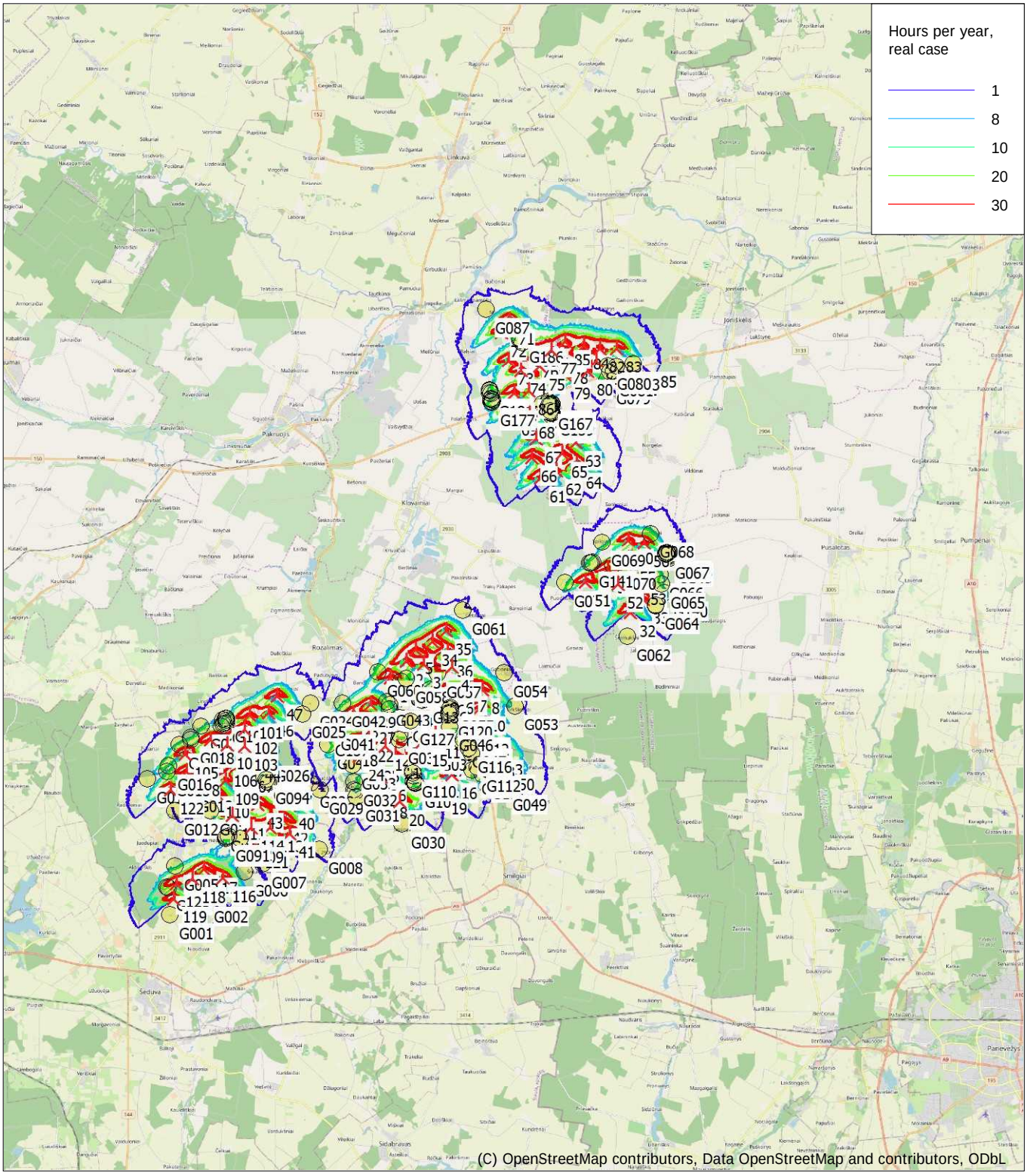
SHADOW - Map

Calculation: VE real 2 alt



0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:250 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 499 680 North: 6 197 140

New WTG Shadow receptor

Flicker map level: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (30)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

Prognozuojamas šešėliavimas (PŪV).
Realus scenarijus.
1 ir 2 alternatyvos (1 lapas)

N

Rozalimas
Dulkiškiai
Bališkiai
Padubysys
Žardeliai
Maldžiūnai
Žybartai
Meldiniai
Birutė
Birjagala
Plaučiškiai
Radviloniai
Šileikoniai
Naujasodis
Alksniupiai
Šniukoniai
Raginėnai
Baukai
Niauduva

47, 46, 101, 102, 104, 100, 103, 105, 44, 106, 107, 108, 109, 122, 110, 43, 40, 111, 42, 114, 113, 41, 121, 117, 118, 116, 120, 119

G24, G25, G41, G139, G137, G138, G40, G26, G96, G95, G94, G93, G27, G28, G29, G100, G102, G23, G99, G101, G97, G98, G22, G21, G20, G19, G18, G17, G16, G15, G14, G13, G12, G11, G10, G89, G88, G92, G91, G90, G09, G08, G07, G06, G05, G04, G03, G02, G01

0 0,5 1 2 km

Sutartiniai žymėjimai

- Artimiausia gyvenamoji aplinka

Planuojamos VE, priklausančios

- 1 ir 2 alternatyvoms
- 2 alternatyvai

Prognozuojamas šešėliavimas

- 8 val./metus (1 alternatyva)
- 8 val./metus (2 alternatyva)

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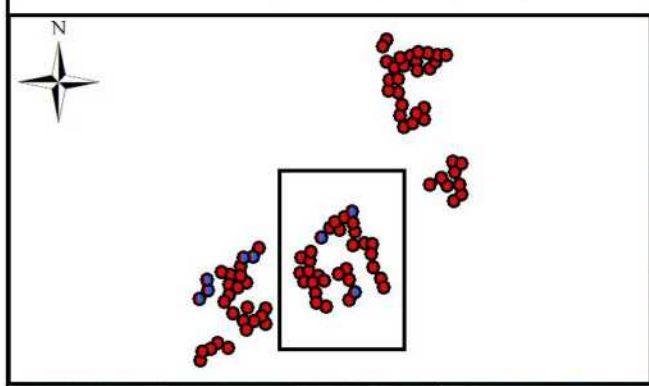
Prognozuojamas šešėliavimas (PŪV).
Realus scenarijus.
1 ir 2 alternatyvos (2 lapas)



Sutartiniai žymėjimai

Artimiausia gyvenamoji aplinka

Planuojamos VE, priklausančios

1 ir 2 alternatyvoms

2 alternatyvai

Prognozuojamas šešėliavimas

8 val./metus (1 alternatyva)

8 val./metus (2 alternatyva)

0 0,5 1 2 km

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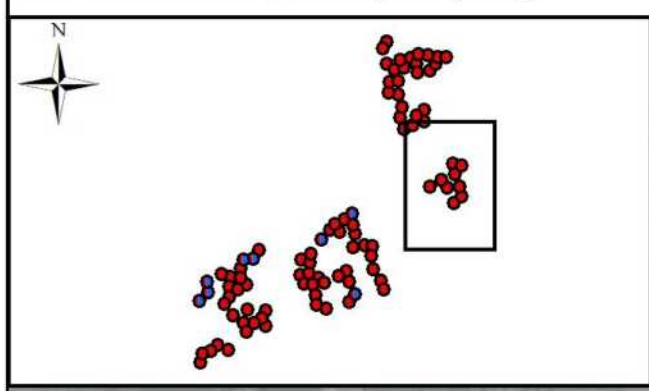
Prognozuojamas šešėliavimas (PŪV).
Realus scenarijus.
1 ir 2 alternatyvos (3 lapas)



Vildūnai
Spilgiai
Deglėnai
Laukugalis
Jakūboniai
Laimučiai
Šilai

G68 G69 G151 G150 G152 G149 G148 G67 G147 G146 G144 G145 G143 G141 G71 G72 G142 G70 G66 G73 G65 G140 G64 G63 G62

50 56 55 54 51 52 53 33 32

Sutartiniai žymėjimai

Artimiausia gyvenamoji aplinka

Planuojamos VE, priklausančios

1 ir 2 alternatyvoms

2 alternatyvai

Prognozuojamas šešėliavimas

8 val./metus (1 alternatyva)

8 val./metus (2 alternatyva)

0 0,5 1 2 km

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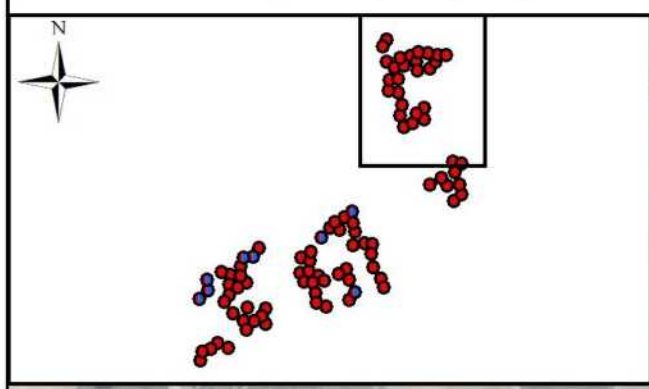
Prognozuojamas šešėliavimas (PŪV).
Realus scenarijus.
1 ir 2 alternatyvos (4 lapas)



Plunkiai
Gailioniai
Gailioniai
Stačiūnai
Židoniai
Gedžiūniškiai
Pamūšis
Lašmenpamūšis
Augustavas
Balsiai
Valdeikiai
Nakiškėliai
Nakiškiai
Siečiai
Kapčiūnai
Palašmenis
Katkūnai
Norgėlai
Spilgiai

G87, G186, G185, G86, G180-G184, G179, G178, G177, G75, G74, G76, G77, G153-G176, G78, G80, G83, G85, G84, G81, G82, G79, G69

71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61

0 0,5 1 2 km

Sutartiniai žymėjimai

Artimiausia gyvenamoji aplinka

Planuojamos VE, priklausančios

1 ir 2 alternatyvoms

2 alternatyvai

Prognozuojamas šešėliavimas

8 val./metus (1 alternatyva)

8 val./metus (2 alternatyva)

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Šešėliavimo modeliavimo rezultatai (PŪV)

Planuojamos VE, 1 alternatyva

Realus scenarijus (įvertinus šešėliavimo mažinimo priemones)

Project:

Planuojamos VE

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Calculated:
2023-01-15 16:59/3.5.584

SHADOW - Main Result

Calculation: real 1 alt (shutdown)

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) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,50	1,10	2,10	3,60	4,60	5,10	4,10	3,70	2,80	1,80	0,50	0,50

Operational time

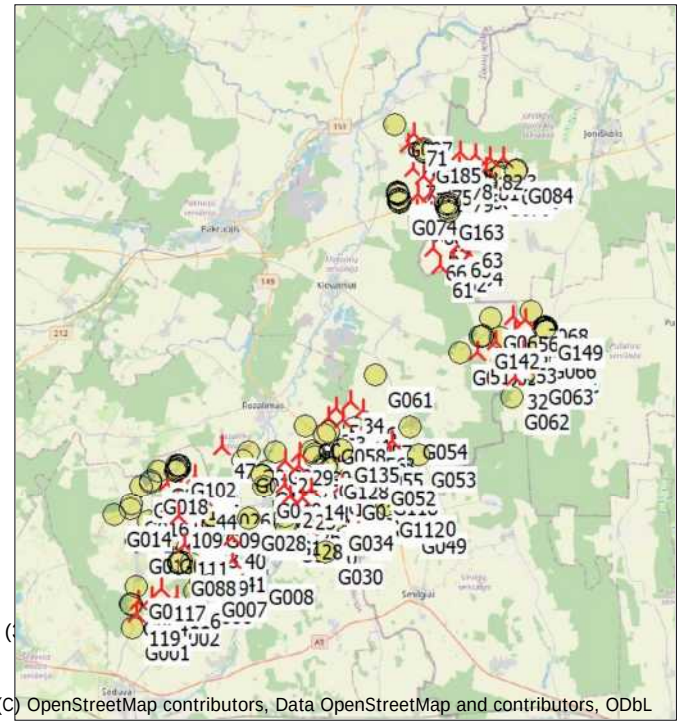
N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
220	210	244	285	296	284	405	479	705	843	872	825

W	WNW	NW	NNW	Sum
594	453	392	252	7 359

Flicker curtailment by stopping specific turbines

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:
Height contours used: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (
Obstacles used in calculation
Receptor grid resolution: 1,0 m

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



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

Scale 1:400 000

New WTG Shadow receptor

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data Calculation distance [m]	RPM [RPM]
2	496 072	6 194 828	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
3	496 849	6 194 676	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
4	498 094	6 194 549	63,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
5	496 494	6 195 320	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
6	497 904	6 193 492	62,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
7	498 844	6 193 650	64,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
8	499 435	6 193 560	60,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
10	499 339	6 192 768	61,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
11	497 369	6 191 579	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
12	499 507	6 191 740	65,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
13	500 115	6 190 809	62,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
14	495 141	6 191 057	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
15	496 783	6 191 238	65,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
17	497 583	6 190 780	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
18	493 716	6 191 249	68,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
19	497 635	6 189 136	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
20	495 806	6 188 619	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
21	495 609	6 190 697	65,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
22	494 421	6 191 419	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
23	493 760	6 192 484	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
24	494 001	6 190 607	68,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
25	494 709	6 190 521	69,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
26	494 932	6 189 704	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
27	494 485	6 192 255	65,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
28	495 029	6 188 944	69,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
29	494 537	6 192 945	66,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
30	500 372	6 190 171	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
32	505 943	6 196 959	51,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
33	506 501	6 197 500	52,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
34	497 216	6 195 690	62,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
36	497 918	6 195 220	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
40	490 952	6 188 461	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

To be continued on next page...

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Calculated:
2023-01-15 16:59/3.5.584

SHADOW - Main Result

Calculation: real 1 alt (shutdown)

...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]
41	490 956	6 187 214	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
42	490 653	6 187 850	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
43	489 521	6 188 529	79,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
44	489 437	6 190 532	78,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
47	490 409	6 193 275	74,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
50	505 860	6 200 126	53,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
51	503 975	6 198 287	53,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
52	505 377	6 198 220	53,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
53	506 394	6 198 319	53,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
54	504 944	6 198 838	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
55	505 959	6 199 299	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
56	506 528	6 199 986	49,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
61	501 980	6 202 855	53,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
62	502 661	6 203 174	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
63	503 539	6 204 406	52,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
64	503 565	6 203 472	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
65	502 954	6 203 915	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
66	501 612	6 203 764	51,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
67	501 790	6 204 579	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
68	501 526	6 205 637	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
69	500 755	6 205 769	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
70	500 821	6 206 587	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
71	500 601	6 209 783	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
72	500 267	6 209 231	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
73	500 586	6 208 007	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
74	501 149	6 207 565	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
75	501 930	6 207 730	51,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
76	501 664	6 208 359	50,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
77	502 453	6 208 484	52,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
78	502 973	6 208 028	50,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
79	503 046	6 207 349	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
80	504 037	6 207 522	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
81	504 430	6 208 007	49,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
82	504 605	6 208 569	50,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
83	505 334	6 208 566	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
84	503 858	6 208 700	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
85	503 067	6 208 838	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
86	501 486	6 206 678	50,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
100	488 194	6 191 149	80,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
102	488 982	6 191 798	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
103	488 965	6 191 068	78,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
104	487 476	6 191 336	82,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
106	488 063	6 190 365	82,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
107	488 774	6 190 102	80,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
109	488 087	6 189 566	83,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
110	487 703	6 188 978	84,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
111	488 421	6 188 060	82,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
113	490 066	6 187 468	78,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
114	489 221	6 187 494	78,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
116	487 980	6 185 307	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
117	487 161	6 185 699	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
118	486 652	6 185 248	93,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
119	485 819	6 184 360	92,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
120	485 934	6 185 058	92,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
121	489 431	6 186 798	81,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

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]
G001	Niauduvos k.	485 653	6 183 651	94,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G002	Bauku k. 7	487 204	6 184 343	91,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G003	Alksniupiu k., Algirdo g. 2B	485 575	6 184 850	93,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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Calculated:
2023-01-15 16:59/3.5.584

SHADOW - Main Result

Calculation: real 1 alt (shutdown)

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G004	Alksniupiu k., Algirdo g. 1A	485 494	6 184 885	93,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G005	Alksniupiu k., Algirdo g. 2A	485 874	6 185 842	93,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G006	Sniukoniu k. 1	488 977	6 185 543	87,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G007	Sniukoniu k. 11	489 711	6 185 892	85,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G008	Raginenu k. 11	492 228	6 186 557	76,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G009	Sliekiu k. 2	488 735	6 186 999	85,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G010	Naujasodzio k., Naujasodzio g. 51A	487 944	6 187 504	90,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G011	Sileikoniu k., Dauksu g. 10	487 471	6 188 215	88,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G012	Sileikoniu k., Sakos g. 8	485 882	6 188 215	90,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G013	Birutes k. 4	486 534	6 189 273	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G014	Radviloniu k., Parko g. 14	484 654	6 189 647	93,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G015	Amalijos k. 5	485 546	6 189 943	90,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G016	Amalijos k. 7	485 593	6 190 214	87,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G017	Zybartu k.	486 093	6 191 136	87,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G018	Krupiskio k. 1	486 619	6 191 381	85,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G019	Krupiskio k. 2	486 627	6 191 441	86,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G020	Lineliu k.	487 041	6 191 957	82,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G021	Maldziunu k. 1	487 940	6 191 965	83,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G022	Maldziunu k. 10	488 171	6 192 124	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G023	Maldziunu k. 14	488 172	6 192 305	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G024	Meldiniu k., Seduvos g. 1	491 860	6 192 984	73,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G025	Meldiniu k., Seduvos g. 5	491 513	6 192 503	75,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G026	Birjagalos k. 7	489 915	6 190 563	81,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G027	Birjagalos k. 12	490 006	6 189 447	79,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G028	Plauciskiu k., Birjagalos g. 17	491 855	6 189 434	77,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G029	Plauciskiu k., Sturiskiu g. 9	492 258	6 189 168	73,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G030	Jasoniu k. 6	495 876	6 187 667	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G031	Gikoniu k. 8	493 884	6 188 801	72,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G032	Gikoniu k. 3	493 787	6 189 489	71,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G033	Simaniskiu k. 4	493 703	6 190 245	72,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G034	Celkiu k. 10	496 464	6 189 430	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G035	Celkiu k. 6	496 402	6 189 549	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G036	Celkiu k. 1	496 357	6 189 951	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G037	Celkiu k.	497 190	6 191 028	64,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G038	Galeliu k. 3	495 743	6 191 361	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G039	Galeliu k. 1	495 816	6 191 558	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G040	Meldiniu k., Seduvos g. 18	492 638	6 191 111	69,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G041	Meldiniu k., Seduvos g. 6	492 814	6 191 939	67,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G042	Simaniskiu k. 3	493 283	6 192 971	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G043	Butnalaukio k. 1	495 207	6 193 029	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G044	Butnalaukio k. 3	495 334	6 192 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G045	Butnalaukio k. 4	495 354	6 192 693	67,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G046	Tarvydu k. 4	497 988	6 191 917	63,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G047	Mediniskiu k. 3	498 537	6 191 168	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G048	Mediniskiu k. 8	498 979	6 190 001	68,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G049	Zvalgu k. 4	500 379	6 189 275	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G050	Mediniskiu k. 11	499 826	6 190 188	63,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G051	Tarvydu k. 1	498 776	6 191 701	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G052	Tarvydu k. 3	498 746	6 191 818	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G053	Tirkslioniu k. 3	500 887	6 192 830	63,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G054	Gacioniu k., Mokyklos g. 1	500 400	6 194 286	61,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G055	Tarvydu k. 13	498 057	6 192 740	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G056	Vaitkunu k. 7	497 149	6 193 578	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G057	Medines vs. 1	497 446	6 194 266	65,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G058	Vaitkunu k. 2	496 074	6 194 052	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G059	Vaitkunu k. 1	495 830	6 193 898	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G060	Banciu k. 12	494 809	6 194 324	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G061	Getautu k. 6	498 558	6 197 039	61,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G062	Sermuksniu k. 1	505 805	6 195 898	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G063	Laukugalio vs. 2	507 053	6 197 207	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G064	Laukugalio vs. 1	507 058	6 197 252	54,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G065	Deglenu k., Parko g. 24	507 315	6 198 201	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G066	Deglenu k., Parko g. 15	507 227	6 198 598	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G067	Deglenu k., Pelkiu g. 2	507 475	6 199 503	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G068	Pagirnupiu k. 1	506 841	6 200 422	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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Calculated:
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SHADOW - Main Result

Calculation: real 1 alt (shutdown)

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G069	Spilgiu k. 5	504 690	6 200 027	56,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G070	Sitkunu k. 5	505 156	6 199 032	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G071	Sitkunu k. 3	504 266	6 199 133	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G072	Sitkunu k. 1	504 215	6 199 100	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G073	Puodziskiu k. 6	503 046	6 198 254	55,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G074	Sieciu k. 1	499 843	6 206 143	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G075	Sieciu k. 3	499 893	6 206 222	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G076	Kapciunu k., Zilviciu g. 1	502 078	6 206 118	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G077	Kapciunu k., Zilviciu g. 2	502 331	6 206 194	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G078	Kapciunu k., Zilviciu g. 13	502 400	6 205 794	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G079	Nakiskiu k., Liepu g. 1B	504 908	6 207 129	51,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G080	Valdeikiu k., Lauko g. 3A	504 950	6 207 777	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G081	Valdeikiu k., Lauko g. 7	505 021	6 207 503	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G082	Valdeikiu k., Lauko g. 5	505 215	6 207 540	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G083	Valdeikiu k., Lauko g. 3	505 338	6 207 743	50,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G084	Valdeikiu k., Alyvu g. 16	505 983	6 207 824	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G085	Valdeikiu k., Alyvu g. 7	506 039	6 207 854	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G086	Augustavo k. 1	501 184	6 208 813	55,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G087	Lasmenpamusio k., Misko g. 3	499 589	6 210 270	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G088	Naujasodzio k., Naujasodzio g., 56	488 090	6 187 037	92,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G089	Naujasodzio k., Naujasodzio g., 55	488 078	6 187 078	91,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G090	Naujasodzio k., Naujasodzio g., 57	488 123	6 187 080	91,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G091	Naujasodzio k., Naujasodzio g., 59	488 156	6 187 082	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G092	Naujasodzio k., Naujasodzio g., 61	488 232	6 187 100	86,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G093	Birjagalos k., 11	489 966	6 189 496	79,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G094	Birjagalos k., 10	489 912	6 189 587	79,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G095	Birjagalos k., 9	489 857	6 189 674	81,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G096	Birjagalos k., 8	489 822	6 189 716	80,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G097	Maldziunu k., 4	487 973	6 192 023	82,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G098	Maldziunu k., 5	487 966	6 192 059	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G099	Maldziunu k., 9	488 078	6 192 098	83,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G100	Maldziunu k., 8	487 993	6 192 263	83,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G101	Maldziunu k., 11	488 155	6 192 232	80,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G102	Maldziunu k., 13	488 131	6 192 303	81,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G103	Gikoniu k., 7	493 814	6 189 053	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G104	Gikoniu k., 6	493 788	6 189 157	69,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G105	Celkiu k., 12	496 514	6 189 399	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G106	Celkiu k., 8	496 459	6 189 458	69,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G107	Celkiu k., 7	496 424	6 189 478	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G108	Celkiu k., 6A	496 410	6 189 497	70,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G109	Celkiu k., 5	496 426	6 189 755	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G110	Celkiu k., 3	496 359	6 189 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G111	Mediniskiu k., 13	499 410	6 189 814	67,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G112	Mediniskiu k., 9	499 215	6 190 141	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G113	Mediniskiu k., 7	498 959	6 190 756	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G114	Mediniskiu k., 6	498 829	6 190 916	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G115	Mediniskiu k., 5	498 820	6 190 943	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G116	Mediniskiu k., 4	498 804	6 190 972	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G117	Mediniskiu k., 3A	498 747	6 191 062	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G118	Mediniskiu k., 2	498 812	6 191 293	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G119	Mediniskiu k., 1	498 584	6 191 327	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G120	Tarvydu k., 7A	497 970	6 192 507	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G121	Tarvydu k., 7B	497 974	6 192 537	65,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G122	Tarvydu k., 9	498 031	6 192 552	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G123	Tarvydu k., 8	497 988	6 192 603	66,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G124	Tarvydu k., 11	498 030	6 192 716	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G125	Tarvydu k., 10	497 993	6 192 731	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G126	Zvirbloniu k., Rozalimo g., 6	496 303	6 192 111	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G127	Zvirbloniu k., Rozalimo g., 8	496 269	6 192 136	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G128	Zvirbloniu k., Rozalimo g., 10	496 248	6 192 150	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G129	Zvirbloniu k., Rozalimo g., 12	496 225	6 192 166	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G130	Zvirbloniu k., Rozalimo g., 14	496 198	6 192 176	67,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G131	Zvirbloniu k., Rozalimo g., 3V	495 681	6 192 015	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G132	Zvirbloniu k., Rozalimo g., 7	495 987	6 192 212	69,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G133	Zvirbloniu k., Rozalimo g., 9	495 926	6 192 273	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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SHADOW - Main Result

Calculation: real 1 alt (shutdown)

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G134	Zvirbloniu k., Rozalimo g., 11	495 813	6 192 321	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G135	Vaitkunu k., 3	496 802	6 193 104	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G136	Vaitkunu k., 5	496 849	6 193 143	64,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G137	Meldiniu k., Seduvos g., 21	492 526	6 191 703	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G138	Meldiniu k., Seduvos g., 19	492 526	6 191 733	71,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G139	Meldiniu k., Seduvos g., 17	492 528	6 191 794	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G140	Deglenu k., Parko g., 26	507 454	6 197 833	54,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G141	Puodziskiu k., 7	504 154	6 199 097	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G142	Sitkunu k., 2	504 241	6 199 117	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G143	Deglenu k., Parko g., 16	507 628	6 199 335	55,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G144	Deglenu k., Parko g., 7	507 545	6 199 399	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G145	Deglenu k., Parko g., 14	507 645	6 199 387	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G146	Deglenu k., Parko g., 12	507 674	6 199 426	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G147	Deglenu k., Parko g., 10	507 666	6 199 465	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G148	Deglenu k., Pelkiu g., 1	507 615	6 199 514	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G149	Deglenu k., Pelkiu g., 3	507 554	6 199 535	52,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G150	Deglenu k., Pelkiu g., 9	507 493	6 199 553	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G151	Deglenu k., Pelkiu g., 5	507 558	6 199 579	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G152	Deglenu k., Pelkiu g., 7	507 517	6 199 591	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G153	Kapciunu k., Zilviciø g., 23	502 481	6 205 584	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G154	Kapciunu k., Zilviciø g., 21	502 454	6 205 669	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G155	Kapciunu k., Zilviciø g., 18	502 489	6 205 677	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G156	Kapciunu k., Zilviciø g., 19	502 436	6 205 693	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G157	Kapciunu k., Zilviciø g., 16	502 472	6 205 727	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G158	Kapciunu k., Zilviciø g., 17	502 424	6 205 733	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G159	Kapciunu k., Zilviciu g., 15	502 416	6 205 761	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G160	Kapciunu k., Zilviciø g., 14	502 445	6 205 787	53,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G161	Kapciunu k., Zilviciø g., 12	502 422	6 205 838	54,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G162	Kapciunu k., Zilviciu g., 10	502 380	6 205 918	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G163	Kapciunu k., Zilviciu g., 9	502 327	6 205 915	52,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G164	Kapciunu k., Zilviciu g., 7	502 322	6 205 934	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G165	Kapciunu k., Zilviciø g., 8	502 369	6 205 948	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G166	Kapciunu k., Zilviciu g., 5	502 321	6 205 958	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G167	Kapciunu k., Roziu g., 1	502 373	6 206 010	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G168	Kapciunu k., Roziu g., 3	502 397	6 206 025	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G169	Kapciunu k., Roziu g., 5	502 424	6 206 034	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G170	Kapciunu k., Roziu g., 7	502 449	6 206 045	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G171	Kapciunu k., Roziu g., 9	502 469	6 206 051	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G172	Kapciunu k., Roziu g., 11	502 501	6 206 061	55,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G173	Kapciunu k., Roziu g., 13	502 522	6 206 071	55,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G174	Kapciunu k., Roziu g., 4	502 492	6 206 098	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G175	Kapciunu k., Zilviciu g., 6	502 311	6 206 080	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G176	Kapciunu k., Zilviciø g., 4	502 304	6 206 109	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G177	Sieciu k., 2	499 804	6 206 197	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G178	Sieciu k., 4	499 793	6 206 279	51,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G179	Sieciu k., 5	499 791	6 206 308	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G180	Sieciu k., 10	499 793	6 206 563	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G181	Sieciu k., 11	499 762	6 206 567	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G182	Sieciu k., 12	499 759	6 206 593	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G183	Sieciu k., 13	499 742	6 206 662	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G184	Sieciu k., 14	499 744	6 206 708	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G185	Augustavo k., 3	501 069	6 208 893	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G186	Augustavo k., 4	501 084	6 208 959	51,3	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]	Shadow, expected values: Avoided hours per year [h/year]
G001	Niauduvos k.	0:00	
G002	Bauku k. 7	6:43	
G003*	Alksniupiu k., Algirdo g. 2B	2:36	11:41

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SHADOW - Main Result

Calculation: real 1 alt (shutdown)

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G004*	Alksniupiu k., Algirdo g. 1A	4:48	18:27
G005	Alksniupiu k., Algirdo g. 2A	6:51	
G006	Sniukoniu k. 1	3:53	
G007	Sniukoniu k. 11	0:47	
G008	Raginenu k. 11	4:58	
G009*	Sliekiu k. 2	3:09	5:21
G010	Naujasodzio k., Naujasodzio g. 51A	6:22	
G011	Sileikoniu k., Dauksu g. 10	3:51	
G012	Sileikoniu k., Sakos g. 8	1:26	
G013	Birutes k. 4	6:19	
G014	Radviloniu k., Parko g. 14	0:00	
G015	Amalijos k. 5	0:00	
G016	Amalijos k. 7	0:00	
G017	Zybartu k.	2:10	
G018	Krupiskio k. 1	6:24	
G019	Krupiskio k. 2	5:37	
G020	Lineliu k.	5:23	
G021*	Maldziunu k. 1	6:08	3:20
G022*	Maldziunu k. 10	6:22	1:47
G023*	Maldziunu k. 14	4:46	1:17
G024	Meldiniu k., Seduvos g. 1	2:32	
G025	Meldiniu k., Seduvos g. 5	3:04	
G026*	Birjagalos k. 7	4:04	27:14
G027*	Birjagalos k. 12	4:05	5:14
G028	Plauciskiu k., Birjagalos g. 17	1:48	
G029	Plauciskiu k., Sturiskiu g. 9	1:09	
G030	Jasoniu k. 6	0:00	
G031	Gikoniu k. 8	3:54	
G032	Gikoniu k. 3	4:44	
G033*	Simaniskiu k. 4	7:00	4:44
G034*	Celkiu k. 10	5:25	1:14
G035*	Celkiu k. 6	5:25	3:21
G036*	Celkiu k. 1	7:16	2:15
G037*	Celkiu k.	6:11	11:05
G038*	Galeliu k. 3	7:07	16:09
G039*	Galeliu k. 1	7:08	10:10
G040	Meldiniu k., Seduvos g. 18	5:23	
G041*	Meldiniu k., Seduvos g. 6	6:45	4:37
G042*	Simaniskiu k. 3	4:04	4:23
G043*	Butnalaukio k. 1	3:18	7:45
G044*	Butnalaukio k. 3	4:13	6:59
G045*	Butnalaukio k. 4	5:07	10:26
G046*	Tarvydu k. 4	3:08	9:46
G047*	Mediniskiu k. 3	4:48	9:55
G048*	Mediniskiu k. 8	6:26	4:05
G049	Zvalgu k. 4	0:00	
G050*	Mediniskiu k. 11	0:00	15:00
G051*	Tarvydu k. 1	3:22	8:15
G052*	Tarvydu k. 3	2:58	5:56
G053	Tirkslioniu k. 3	4:52	
G054	Gacioniu k., Mokyklos g. 1	3:26	
G055*	Tarvydu k. 13	2:49	6:40
G056	Vaitkunu k. 7	7:08	
G057*	Medines vs. 1	7:50	11:52
G058	Vaitkunu k. 2	1:13	
G059	Vaitkunu k. 1	2:52	
G060	Banciu k. 12	6:32	
G061	Getautu k. 6	0:28	
G062	Sermuksniu k. 1	0:00	
G063*	Laukugalio vs. 2	5:00	7:09
G064*	Laukugalio vs. 1	4:23	10:40
G065*	Deglenu k., Parko g. 24	3:49	5:02
G066*	Deglenu k., Parko g. 15	6:00	4:50
G067*	Deglenu k., Pelkiu g. 2	3:53	6:52

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SHADOW - Main Result

Calculation: real 1 alt (shutdown)

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G068*	Pagirnupiu k. 1	3:59	7:25
G069	Spilgiu k. 5	5:30	
G070*	Sitkunu k. 5	5:48	45:12
G071*	Sitkunu k. 3	4:48	8:08
G072*	Sitkunu k. 1	5:00	7:45
G073	Puodziskiu k. 6	5:42	
G074*	Sieciu k. 1	5:00	8:23
G075*	Sieciu k. 3	5:04	9:07
G076*	Kapciunu k., Zilviciu g. 1	4:49	4:32
G077*	Kapciunu k., Zilviciu g. 2	3:07	8:36
G078*	Kapciunu k., Zilviciu g. 13	5:18	3:59
G079*	Nakiskiu k., Liepu g. 1B	0:59	8:35
G080*	Valdeikiu k., Lauko g. 3A	4:30	10:42
G081	Valdeikiu k., Lauko g. 7	4:34	
G082*	Valdeikiu k., Lauko g. 5	2:39	5:24
G083*	Valdeikiu k., Lauko g. 3	5:06	6:53
G084	Valdeikiu k., Alyvu g. 16	6:22	
G085	Valdeikiu k., Alyvu g. 7	4:59	
G086*	Augustavo k. 1	6:49	13:05
G087	Lasmenpamusio k., Misko g. 3	3:19	
G088*	Naujasodzio k., Naujasodzio g., 56	3:13	5:17
G089*	Naujasodzio k., Naujasodzio g., 55	3:08	4:41
G090*	Naujasodzio k., Naujasodzio g., 57	2:53	5:44
G091*	Naujasodzio k., Naujasodzio g., 59	2:54	6:33
G092*	Naujasodzio k., Naujasodzio g., 61	2:44	9:24
G093*	Birjagalos k., 11	3:46	5:34
G094*	Birjagalos k., 10	4:27	4:56
G095*	Birjagalos k., 9	3:59	4:15
G096*	Birjagalos k., 8	3:46	4:20
G097*	Maldziunu k., 4	5:38	2:49
G098*	Maldziunu k., 5	5:14	2:44
G099*	Maldziunu k., 9	5:36	2:01
G100*	Maldziunu k., 8	5:02	0:54
G101*	Maldziunu k., 11	5:13	1:23
G102*	Maldziunu k., 13	4:36	1:24
G103*	Gikoniu k., 7	2:08	5:54
G104*	Gikoniu k., 6	1:49	6:39
G105*	Celkiu k., 12	5:47	0:57
G106*	Celkiu k., 8	4:59	1:32
G107*	Celkiu k., 7	6:08	3:13
G108*	Celkiu k., 6A	6:02	3:24
G109*	Celkiu k., 5	6:23	0:25
G110*	Celkiu k., 3	6:28	2:17
G111*	Mediniskiu k., 13	0:40	8:28
G112*	Mediniskiu k., 9	6:15	1:05
G113*	Mediniskiu k., 7	5:09	2:55
G114*	Mediniskiu k., 6	6:28	0:39
G115*	Mediniskiu k., 5	6:08	0:48
G116*	Mediniskiu k., 4	5:43	1:08
G117*	Mediniskiu k., 3A	5:24	2:13
G118*	Mediniskiu k., 2	4:42	5:25
G119*	Mediniskiu k., 1	5:59	9:55
G120*	Tarvydu k., 7A	5:40	2:52
G121*	Tarvydu k., 7B	5:23	3:20
G122*	Tarvydu k., 9	5:24	3:09
G123*	Tarvydu k., 8	4:35	4:29
G124*	Tarvydu k., 11	2:51	6:32
G125*	Tarvydu k., 10	3:09	5:58
G126*	Zvirbloniu k., Rozalimo g., 6	4:41	4:08
G127*	Zvirbloniu k., Rozalimo g., 8	4:29	4:05
G128*	Zvirbloniu k., Rozalimo g., 10	4:17	4:04
G129*	Zvirbloniu k., Rozalimo g., 12	4:04	4:09
G130*	Zvirbloniu k., Rozalimo g., 14	3:55	4:16
G131*	Zvirbloniu k., Rozalimo g., 3V	7:49	2:26

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SHADOW - Main Result

Calculation: real 1 alt (shutdown)

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G132*	Zvirbloniu k., Rozalimo g., 7	4:23	4:17
G133*	Zvirbloniu k., Rozalimo g., 9	4:01	4:43
G134*	Zvirbloniu k., Rozalimo g., 11	4:17	5:36
G135	Vaitkunu k., 3	5:05	
G136	Vaitkunu k., 5	5:20	
G137*	Meldiniu k., Seduvos g., 21	3:46	4:45
G138*	Meldiniu k., Seduvos g., 19	3:40	5:05
G139*	Meldiniu k., Seduvos g., 17	3:28	5:40
G140*	Deglenu k., Parko g., 26	3:35	6:47
G141*	Puodziskiu k., 7	5:06	6:27
G142*	Sitkunu k., 2	4:54	7:58
G143*	Deglenu k., Parko g., 16	3:26	5:07
G144*	Deglenu k., Parko g., 7	3:41	5:36
G145*	Deglenu k., Parko g., 14	3:12	5:42
G146*	Deglenu k., Parko g., 12	3:00	5:41
G147*	Deglenu k., Parko g., 10	2:56	5:30
G148*	Deglenu k., Pelkiu g., 1	3:05	5:49
G149*	Deglenu k., Pelkiu g., 3	3:22	6:41
G150*	Deglenu k., Pelkiu g., 9	3:41	7:19
G151*	Deglenu k., Pelkiu g., 5	3:16	6:02
G152*	Deglenu k., Pelkiu g., 7	3:29	6:54
G153*	Kapciunu k., Zilviciø g., 23	6:37	3:44
G154*	Kapciunu k., Zilviciø g., 21	5:49	3:59
G155*	Kapciunu k., Zilviciø g., 18	5:31	3:40
G156*	Kapciunu k., Zilviciø g., 19	5:47	4:08
G157*	Kapciunu k., Zilviciø g., 16	5:22	3:42
G158*	Kapciunu k., Zilviciø g., 17	5:33	4:07
G159*	Kapciunu k., Zilviciu g., 15	5:25	4:02
G160*	Kapciunu k., Zilviciø g., 14	5:11	3:38
G161*	Kapciunu k., Zilviciø g., 12	4:59	3:33
G162*	Kapciunu k., Zilviciu g., 10	4:43	3:31
G163*	Kapciunu k., Zilviciu g., 9	4:56	3:58
G164*	Kapciunu k., Zilviciu g., 7	4:52	3:56
G165*	Kapciunu k., Zilviciø g., 8	4:35	3:30
G166*	Kapciunu k., Zilviciu g., 5	4:45	3:50
G167*	Kapciunu k., Roziu g., 1	5:37	3:29
G168*	Kapciunu k., Roziu g., 3	5:44	4:04
G169*	Kapciunu k., Roziu g., 5	5:36	4:40
G170*	Kapciunu k., Roziu g., 7	5:20	5:21
G171*	Kapciunu k., Roziu g., 9	5:05	5:49
G172*	Kapciunu k., Roziu g., 11	4:36	6:31
G173*	Kapciunu k., Roziu g., 13	4:11	7:03
G174*	Kapciunu k., Roziu g., 4	3:57	7:33
G175*	Kapciunu k., Zilviciu g., 6	4:42	4:09
G176*	Kapciunu k., Zilviciø g., 4	4:32	4:52
G177*	Sieciu k., 2	4:31	7:08
G178*	Sieciu k., 4	4:05	4:40
G179*	Sieciu k., 5	3:58	4:14
G180*	Sieciu k., 10	5:37	2:56
G181*	Sieciu k., 11	5:51	2:43
G182*	Sieciu k., 12	6:05	2:42
G183*	Sieciu k., 13	6:06	2:33
G184*	Sieciu k., 14	6:16	2:33
G185*	Augustavo k., 3	5:55	12:48
G186*	Augustavo k., 4	5:25	12:57

* Receptors where shadow flicker is reduced by curtailment

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

No.	Name	Stopped due to flicker curtailment [h/year]	Expected [h/year]
2	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (219)		6:30
3	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (220)		3:38
4	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (221)	78:35	0:00

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SHADOW - Main Result

Calculation: real 1 alt (shutdown)

...continued from previous page

No.	Name	Stopped due to flicker curtailment [h/year]	Expected [h/year]
5	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (222)		2:38
6	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (223)		14:56
7	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (224)		3:11
8	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (225)	30:49	7:11
10	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (226)	71:56	2:23
11	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (227)	83:43	17:59
12	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (228)	184:12	3:09
13	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (229)	37:49	8:09
14	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (230)	93:58	8:45
15	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (231)	103:26	15:11
17	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (232)	144:34	21:14
18	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (233)		8:16
19	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (234)		7:03
20	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (235)		6:20
21	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (236)	103:02	3:33
22	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (237)		12:50
23	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (238)	122:24	4:53
24	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (239)		3:06
25	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (240)	66:45	5:25
26	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (241)	96:18	8:14
27	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (242)	96:57	11:41
28	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (243)		12:53
29	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (244)	224:17	6:52
30	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (245)	169:55	5:37
32	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (246)		4:08
33	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (247)	87:37	6:15
34	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (248)		0:28
36	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (249)		0:00
40	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (250)		3:16
41	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (251)		4:58
42	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (252)		0:55
43	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (253)		7:23
44	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (254)	151:35	0:35
47	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (255)		5:01
50	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (256)	23:48	9:37
51	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (257)		10:09
52	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (258)	71:12	6:23
53	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (259)	90:12	6:47
54	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (260)	321:01	1:50
55	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (261)	117:13	7:50
56	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (262)	209:12	4:19
61	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (263)		0:00
62	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (264)		0:00
63	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (265)		2:04
64	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (266)		0:00
65	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (267)		0:00
66	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (268)		0:04
67	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (269)		3:35
68	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (270)	221:28	2:15
69	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (271)		12:25
70	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (272)	159:32	10:26
71	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (273)		1:53
72	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (274)	114:23	1:26
73	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (275)		4:11
74	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (276)		7:14
75	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (277)		1:37
76	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (278)	68:18	0:39
77	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (279)		2:27
78	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (280)		1:24
79	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (281)		2:20
80	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (282)	63:53	8:57
81	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (283)	136:31	1:51
82	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (284)		5:00
83	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (285)		0:00
84	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (286)		3:28
85	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (287)		1:29

To be continued on next page...

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Calculated:
2023-01-15 16:59/3.5.584

SHADOW - Main Result

Calculation: real 1 alt (shutdown)

...continued from previous page

No.	Name	Stopped due to flicker curtailment [h/year]	Expected [h/year]
86	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (288)	45:31	8:03
100	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (289)		9:01
102	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (290)		10:41
103	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (291)	50:17	3:46
104	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (292)	99:12	13:31
106	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (293)		7:08
107	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (294)	89:59	1:48
109	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (295)		4:21
110	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (296)		3:17
111	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (297)		3:16
113	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (298)		4:17
114	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (299)	60:55	3:00
116	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (300)		3:38
117	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (301)		7:54
118	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (302)	38:33	3:36
119	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (303)	117:16	3:24
120	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (304)	91:28	7:35
121	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (305)	51:37	2:17

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.

Šešėliavimo modeliavimo rezultatai (PŪV)

Planuojamos VE, 2 alternatyva

Realus scenarijus (įvertinus šešėliavimo mažinimo priemones)

Project:

Planuojamos VE

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Calculated:
2023-01-15 17:34/3.5.584

SHADOW - Main Result

Calculation: real 2 alt (shutdown)

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) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,50	1,10	2,10	3,60	4,60	5,10	4,10	3,70	2,80	1,80	0,50	0,50

Operational time

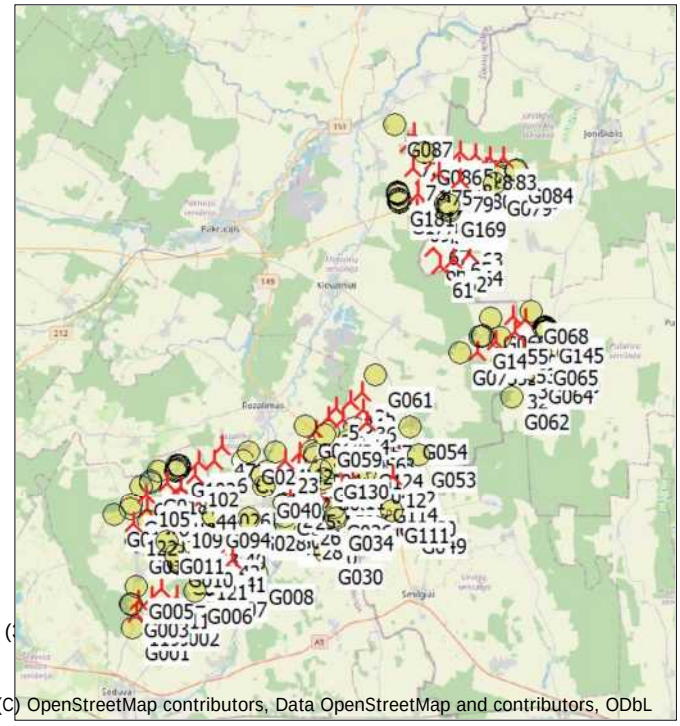
N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
220	210	244	285	296	284	405	479	705	843	872	825

W	WNW	NW	NNW	Sum
594	453	392	252	7 359

Flicker curtailment by stopping specific turbines

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:
Height contours used: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (
Obstacles used in calculation
Receptor grid resolution: 1,0 m

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



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

Scale 1:400 000

New WTG Shadow receptor

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data Calculation distance [m]	RPM [RPM]
1	495 390	6 194 097	63,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
2	496 072	6 194 828	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
3	496 849	6 194 676	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
4	498 094	6 194 549	63,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
5	496 494	6 195 320	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
6	497 904	6 193 492	62,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
7	498 844	6 193 650	64,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
8	499 435	6 193 560	60,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
10	499 339	6 192 768	61,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
11	497 369	6 191 579	64,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
12	499 507	6 191 740	65,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
13	500 115	6 190 809	62,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
14	495 141	6 191 057	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
15	496 783	6 191 238	65,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
16	498 090	6 189 790	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
17	497 583	6 190 780	63,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
18	493 716	6 191 249	68,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
19	497 635	6 189 136	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
20	495 806	6 188 619	67,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
21	495 609	6 190 697	65,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
22	494 421	6 191 419	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
23	493 760	6 192 484	66,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
24	494 001	6 190 607	68,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
25	494 709	6 190 521	69,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
26	494 932	6 189 704	66,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
27	494 485	6 192 255	65,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
28	495 029	6 188 944	69,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
29	494 537	6 192 945	66,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
30	500 372	6 190 171	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
32	505 943	6 196 959	51,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
33	506 501	6 197 500	52,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
34	497 216	6 195 690	62,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

To be continued on next page...

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Calculated:
2023-01-15 17:34/3.5.584

SHADOW - Main Result

Calculation: real 2 alt (shutdown)

...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]
35	497 821	6 196 141	63,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
36	497 918	6 195 220	64,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
40	490 952	6 188 461	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
41	490 956	6 187 214	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
42	490 653	6 187 850	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
43	489 521	6 188 529	79,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
44	489 437	6 190 532	78,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
46	489 996	6 192 550	75,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
47	490 409	6 193 275	74,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
50	505 860	6 200 126	53,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
51	503 975	6 198 287	53,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
52	505 377	6 198 220	53,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
53	506 394	6 198 319	53,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
54	504 944	6 198 838	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
55	505 959	6 199 299	51,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
56	506 528	6 199 986	49,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
61	501 980	6 202 855	53,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
62	502 661	6 203 174	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
63	503 539	6 204 406	52,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
64	503 565	6 203 472	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
65	502 954	6 203 915	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
66	501 612	6 203 764	51,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
67	501 790	6 204 579	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
68	501 526	6 205 637	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
69	500 755	6 205 769	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
70	500 821	6 206 587	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
71	500 601	6 209 783	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
72	500 267	6 209 231	50,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
73	500 586	6 208 007	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
74	501 149	6 207 565	51,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
75	501 930	6 207 730	51,2	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
76	501 664	6 208 359	50,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
77	502 453	6 208 484	52,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
78	502 973	6 208 028	50,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
79	503 046	6 207 349	52,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
80	504 037	6 207 522	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
81	504 430	6 208 007	49,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
82	504 605	6 208 569	50,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
83	505 334	6 208 566	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
84	503 858	6 208 700	52,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
85	503 067	6 208 838	51,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
86	501 486	6 206 678	50,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
100	488 194	6 191 149	80,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
101	489 205	6 192 470	76,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
102	488 982	6 191 798	77,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
103	488 965	6 191 068	78,8	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
104	487 476	6 191 336	82,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
105	486 343	6 190 728	84,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
106	488 063	6 190 365	82,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
107	488 774	6 190 102	80,4	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
108	486 368	6 189 932	90,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
109	488 087	6 189 566	83,1	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
110	487 703	6 188 978	84,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
111	488 421	6 188 060	82,5	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
113	490 066	6 187 468	78,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
114	489 221	6 187 494	78,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
116	487 980	6 185 307	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
117	487 161	6 185 699	88,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
118	486 652	6 185 248	93,0	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
119	485 819	6 184 360	92,3	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
120	485 934	6 185 058	92,9	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
121	489 431	6 186 798	81,6	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
122	485 710	6 189 190	87,7	VE model VE model 8000 180.0 !O!...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

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Calculated:
2023-01-15 17:34/3.5.584

SHADOW - Main Result

Calculation: real 2 alt (shutdown)

Shadow receptor-Input

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G001	Niauduvos k.	485 653	6 183 651	94,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G002	Bauku k. 7	487 204	6 184 343	91,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G003	Alksniupiu k., Algirdo g. 2B	485 575	6 184 850	93,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G004	Alksniupiu k., Algirdo g. 1A	485 494	6 184 885	93,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G005	Alksniupiu k., Algirdo g. 2A	485 874	6 185 842	93,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G006	Sniukoniu k. 1	488 977	6 185 543	87,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G007	Sniukoniu k. 11	489 711	6 185 892	85,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G008	Raginenu k. 11	492 228	6 186 557	76,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G009	Sliekiu k. 2	488 735	6 186 999	85,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G010	Naujasodzio k., Naujasodzio g. 51A	487 944	6 187 504	90,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G011	Sileikoniu k., Dauksu g. 10	487 471	6 188 215	88,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G012	Sileikoniu k., Sakos g. 8	485 882	6 188 215	90,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G013	Birutes k. 4	486 534	6 189 273	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G014	Radviloniu k., Parko g. 14	484 654	6 189 647	93,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G015	Amalijos k. 5	485 546	6 189 943	90,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G016	Amalijos k. 7	485 593	6 190 214	87,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G017	Zybartu k.	486 093	6 191 136	87,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G018	Krupiskio k. 1	486 619	6 191 381	85,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G019	Krupiskio k. 2	486 627	6 191 441	86,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G020	Lineliu k.	487 041	6 191 957	82,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G021	Maldziunu k. 1	487 940	6 191 965	83,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G022	Maldziunu k. 10	488 171	6 192 124	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G023	Maldziunu k. 14	488 172	6 192 305	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G024	Meldiniu k., Seduvos g. 1	491 860	6 192 984	73,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G025	Meldiniu k., Seduvos g. 5	491 513	6 192 503	75,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G026	Birjagalos k. 7	489 915	6 190 563	81,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G027	Birjagalos k. 12	490 006	6 189 447	79,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G028	Plauciskiu k., Birjagalos g. 17	491 855	6 189 434	77,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G029	Plauciskiu k., Sturiskiu g. 9	492 258	6 189 168	73,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G030	Jasoniu k. 6	495 876	6 187 667	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G031	Gikoniu k. 8	493 884	6 188 801	72,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G032	Gikoniu k. 3	493 787	6 189 489	71,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G033	Simaniskiu k. 4	493 703	6 190 245	72,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G034	Celkiu k. 10	496 464	6 189 430	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G035	Celkiu k. 6	496 402	6 189 549	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G036	Celkiu k. 1	496 357	6 189 951	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G037	Celkiu k.	497 190	6 191 028	64,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G038	Galeliu k. 3	495 743	6 191 361	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G039	Galeliu k. 1	495 816	6 191 558	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G040	Meldiniu k., Seduvos g. 18	492 638	6 191 111	69,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G041	Meldiniu k., Seduvos g. 6	492 814	6 191 939	67,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G042	Simaniskiu k. 3	493 283	6 192 971	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G043	Butnalaukio k. 1	495 207	6 193 029	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G044	Butnalaukio k. 3	495 334	6 192 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G045	Butnalaukio k. 4	495 354	6 192 693	67,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G046	Tarvydu k. 4	497 988	6 191 917	63,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G047	Mediniskiu k. 3	498 537	6 191 168	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G048	Mediniskiu k. 8	498 979	6 190 001	68,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G049	Zvalgu k. 4	500 379	6 189 275	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G050	Mediniskiu k. 11	499 826	6 190 188	63,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G051	Tarvydu k. 1	498 776	6 191 701	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G052	Tarvydu k. 3	498 746	6 191 818	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G053	Tirkslioniu k. 3	500 887	6 192 830	63,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G054	Gacioniu k., Mokyklos g. 1	500 400	6 194 286	61,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G055	Tarvydu k. 13	498 057	6 192 740	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G056	Vaitkunu k. 7	497 149	6 193 578	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G057	Medines vs. 1	497 446	6 194 266	65,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G058	Vaitkunu k. 2	496 074	6 194 052	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G059	Vaitkunu k. 1	495 830	6 193 898	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G060	Banciu k. 12	494 809	6 194 324	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G061	Getautu k. 6	498 558	6 197 039	61,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G062	Sermuksniu k. 1	505 805	6 195 898	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G063	Laukugalio vs. 2	507 053	6 197 207	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G064	Laukugalio vs. 1	507 058	6 197 252	54,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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Calculated:
2023-01-15 17:34/3.5.584

SHADOW - Main Result

Calculation: real 2 alt (shutdown)

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G065	Deglenu k., Parko g. 24	507 315	6 198 201	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G066	Deglenu k., Parko g. 15	507 227	6 198 598	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G067	Deglenu k., Pelkiu g. 2	507 475	6 199 503	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G068	Pagirnupiu k. 1	506 841	6 200 422	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G069	Spilgiu k. 5	504 690	6 200 027	56,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G070	Sitkunu k. 5	505 156	6 199 032	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G071	Sitkunu k. 3	504 266	6 199 133	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G072	Sitkunu k. 1	504 215	6 199 100	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G073	Puodziskiu k. 6	503 046	6 198 254	55,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G074	Sieciu k. 1	499 843	6 206 143	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G075	Sieciu k. 3	499 893	6 206 222	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G076	Kapciunu k., Zilviciu g. 1	502 078	6 206 118	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G077	Kapciunu k., Zilviciu g. 2	502 331	6 206 194	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G078	Kapciunu k., Zilviciu g. 13	502 400	6 205 794	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G079	Nakiskiu k., Liepu g. 1B	504 908	6 207 129	51,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G080	Valdeikiu k., Lauko g. 3A	504 950	6 207 777	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G081	Valdeikiu k., Lauko g. 7	505 021	6 207 503	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G082	Valdeikiu k., Lauko g. 5	505 215	6 207 540	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G083	Valdeikiu k., Lauko g. 3	505 338	6 207 743	50,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G084	Valdeikiu k., Alyvu g. 16	505 983	6 207 824	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G085	Valdeikiu k., Alyvu g. 7	506 039	6 207 854	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G086	Augustavo k. 1	501 184	6 208 813	55,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G087	Lasmenpamusio k., Misko g. 3	499 589	6 210 270	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G088	Naujasodzio k., Naujasodzio g., 56	488 090	6 187 037	92,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G089	Naujasodzio k., Naujasodzio g., 55	488 078	6 187 078	91,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G090	Naujasodzio k., Naujasodzio g., 57	488 123	6 187 080	91,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G091	Naujasodzio k., Naujasodzio g., 59	488 156	6 187 082	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G092	Naujasodzio k., Naujasodzio g., 61	488 232	6 187 100	86,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G093	Birjagalos k., 11	489 966	6 189 496	79,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G094	Birjagalos k., 10	489 912	6 189 587	79,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G095	Birjagalos k., 9	489 857	6 189 674	81,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G096	Birjagalos k., 8	489 822	6 189 716	80,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G097	Maldziunu k., 4	487 973	6 192 023	82,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G098	Maldziunu k., 5	487 966	6 192 059	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G099	Maldziunu k., 9	488 078	6 192 098	83,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G100	Maldziunu k., 8	487 993	6 192 263	83,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G101	Maldziunu k., 11	488 155	6 192 232	80,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G102	Maldziunu k., 13	488 131	6 192 303	81,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G103	Gikoniu k., 7	493 814	6 189 053	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G104	Gikoniu k., 6	493 788	6 189 157	69,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G105	Celkiu k., 12	496 514	6 189 399	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G106	Celkiu k., 8	496 459	6 189 458	69,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G107	Celkiu k., 7	496 424	6 189 478	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G108	Celkiu k., 6A	496 410	6 189 497	70,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G109	Celkiu k., 5	496 426	6 189 755	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G110	Celkiu k., 3	496 359	6 189 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G111	Mediniskiu k., 13	499 410	6 189 814	67,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G112	Mediniskiu k., 9	499 215	6 190 141	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G113	Mediniskiu k., 7	498 959	6 190 756	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G114	Mediniskiu k., 6	498 829	6 190 916	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G115	Mediniskiu k., 5	498 820	6 190 943	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G116	Mediniskiu k., 4	498 804	6 190 972	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G117	Mediniskiu k., 3A	498 747	6 191 062	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G118	Mediniskiu k., 2	498 812	6 191 293	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G119	Mediniskiu k., 1	498 584	6 191 327	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G120	Tarvydu k., 7A	497 970	6 192 507	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G121	Tarvydu k., 7B	497 974	6 192 537	65,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G122	Tarvydu k., 9	498 031	6 192 552	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G123	Tarvydu k., 8	497 988	6 192 603	66,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G124	Tarvydu k., 11	498 030	6 192 716	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G125	Tarvydu k., 10	497 993	6 192 731	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G126	Zvirbloniu k., Rozalimo g., 6	496 303	6 192 111	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G127	Zvirbloniu k., Rozalimo g., 8	496 269	6 192 136	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G128	Zvirbloniu k., Rozalimo g., 10	496 248	6 192 150	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G129	Zvirbloniu k., Rozalimo g., 12	496 225	6 192 166	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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Calculated:
2023-01-15 17:34/3.5.584

SHADOW - Main Result

Calculation: real 2 alt (shutdown)

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G130	Zvirbloniu k., Rozalimo g., 14	496 198	6 192 176	67,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G131	Zvirbloniu k., Rozalimo g., 3V	495 681	6 192 015	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G132	Zvirbloniu k., Rozalimo g., 7	495 987	6 192 212	69,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G133	Zvirbloniu k., Rozalimo g., 9	495 926	6 192 273	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G134	Zvirbloniu k., Rozalimo g., 11	495 813	6 192 321	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G135	Vaitkunu k., 3	496 802	6 193 104	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G136	Vaitkunu k., 5	496 849	6 193 143	64,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G137	Meldiniu k., Seduvos g., 21	492 526	6 191 703	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G138	Meldiniu k., Seduvos g., 19	492 526	6 191 733	71,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G139	Meldiniu k., Seduvos g., 17	492 528	6 191 794	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G140	Deglenu k., Parko g., 26	507 454	6 197 833	54,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G141	Puodziskiu k., 7	504 154	6 199 097	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G142	Sitkunu k., 2	504 241	6 199 117	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G143	Deglenu k., Parko g., 16	507 628	6 199 335	55,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G144	Deglenu k., Parko g., 7	507 545	6 199 399	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G145	Deglenu k., Parko g., 14	507 645	6 199 387	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G146	Deglenu k., Parko g., 12	507 674	6 199 426	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G147	Deglenu k., Parko g., 10	507 666	6 199 465	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G148	Deglenu k., Pelkiu g., 1	507 615	6 199 514	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G149	Deglenu k., Pelkiu g., 3	507 554	6 199 535	52,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G150	Deglenu k., Pelkiu g., 9	507 493	6 199 553	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G151	Deglenu k., Pelkiu g., 5	507 558	6 199 579	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G152	Deglenu k., Pelkiu g., 7	507 517	6 199 591	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G153	Kapciunu k., Zilviciø g., 23	502 481	6 205 584	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G154	Kapciunu k., Zilviciø g., 21	502 454	6 205 669	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G155	Kapciunu k., Zilviciø g., 18	502 489	6 205 677	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G156	Kapciunu k., Zilviciø g., 19	502 436	6 205 693	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G157	Kapciunu k., Zilviciø g., 16	502 472	6 205 727	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G158	Kapciunu k., Zilviciø g., 17	502 424	6 205 733	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G159	Kapciunu k., Zilviciu g., 15	502 416	6 205 761	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G160	Kapciunu k., Zilviciø g., 14	502 445	6 205 787	53,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G161	Kapciunu k., Zilviciø g., 12	502 422	6 205 838	54,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G162	Kapciunu k., Zilviciu g., 10	502 380	6 205 918	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G163	Kapciunu k., Zilviciu g., 9	502 327	6 205 915	52,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G164	Kapciunu k., Zilviciu g., 7	502 322	6 205 934	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G165	Kapciunu k., Zilviciø g., 8	502 369	6 205 948	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G166	Kapciunu k., Zilviciu g., 5	502 321	6 205 958	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G167	Kapciunu k., Roziu g., 1	502 373	6 206 010	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G168	Kapciunu k., Roziu g., 3	502 397	6 206 025	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G169	Kapciunu k., Roziu g., 5	502 424	6 206 034	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G170	Kapciunu k., Roziu g., 7	502 449	6 206 045	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G171	Kapciunu k., Roziu g., 9	502 469	6 206 051	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G172	Kapciunu k., Roziu g., 11	502 501	6 206 061	55,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G173	Kapciunu k., Roziu g., 13	502 522	6 206 071	55,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G174	Kapciunu k., Roziu g., 4	502 492	6 206 098	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G175	Kapciunu k., Zilviciu g., 6	502 311	6 206 080	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G176	Kapciunu k., Zilviciø g., 4	502 304	6 206 109	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G177	Sieciu k., 2	499 804	6 206 197	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G178	Sieciu k., 4	499 793	6 206 279	51,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G179	Sieciu k., 5	499 791	6 206 308	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G180	Sieciu k., 10	499 793	6 206 563	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G181	Sieciu k., 11	499 762	6 206 567	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G182	Sieciu k., 12	499 759	6 206 593	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G183	Sieciu k., 13	499 742	6 206 662	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G184	Sieciu k., 14	499 744	6 206 708	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G185	Augustavo k., 3	501 069	6 208 893	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G186	Augustavo k., 4	501 084	6 208 959	51,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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SHADOW - Main Result

Calculation: real 2 alt (shutdown)

Calculation Results

Shadow receptor

No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G001	Niauduvos k.	0:00	
G002	Bauku k. 7	6:43	
G003*	Alksniupiu k., Algirdo g. 2B	2:36	11:41
G004*	Alksniupiu k., Algirdo g. 1A	4:48	18:27
G005	Alksniupiu k., Algirdo g. 2A	6:51	
G006	Sniukoniu k. 1	3:53	
G007	Sniukoniu k. 11	0:47	
G008	Raginenu k. 11	4:58	
G009*	Sliekiu k. 2	3:09	5:21
G010	Naujasodzio k., Naujasodzio g. 51A	6:22	
G011	Sileikoniu k., Dauksu g. 10	5:35	
G012	Sileikoniu k., Sakos g. 8	1:26	
G013*	Birutes k. 4	6:19	5:01
G014	Radviloniu k., Parko g. 14	6:15	
G015*	Amalijos k. 5	5:44	2:56
G016*	Amalijos k. 7	6:52	1:19
G017*	Zybartu k.	2:56	8:11
G018*	Krupiskio k. 1	6:24	4:19
G019*	Krupiskio k. 2	5:37	3:33
G020*	Lineliu k.	6:27	0:12
G021*	Maldziunu k. 1	6:34	7:04
G022*	Maldziunu k. 10	7:30	7:19
G023*	Maldziunu k. 14	5:27	5:10
G024	Meldiniu k., Seduvos g. 1	3:16	
G025	Meldiniu k., Seduvos g. 5	4:39	
G026*	Birjagalos k. 7	4:04	27:14
G027*	Birjagalos k. 12	4:05	5:14
G028	Plauciskiu k., Birjagalos g. 17	1:48	
G029	Plauciskiu k., Sturiskiu g. 9	1:09	
G030	Jasoniu k. 6	0:00	
G031	Gikoniu k. 8	3:54	
G032	Gikoniu k. 3	4:44	
G033*	Simaniskiu k. 4	7:00	4:44
G034*	Celkiu k. 10	6:33	1:41
G035*	Celkiu k. 6	6:48	3:21
G036*	Celkiu k. 1	7:25	3:02
G037*	Celkiu k.	7:12	11:05
G038*	Galeliu k. 3	7:07	16:09
G039*	Galeliu k. 1	7:08	10:10
G040	Meldiniu k., Seduvos g. 18	5:23	
G041*	Meldiniu k., Seduvos g. 6	6:45	4:37
G042*	Simaniskiu k. 3	4:04	4:23
G043*	Butnalaukio k. 1	3:18	7:45
G044*	Butnalaukio k. 3	4:13	6:59
G045*	Butnalaukio k. 4	5:07	10:26
G046*	Tarvydu k. 4	3:08	9:46
G047*	Mediniskiu k. 3	4:34	10:34
G048*	Mediniskiu k. 8	6:12	7:58
G049	Zvalgu k. 4	0:00	
G050*	Mediniskiu k. 11	0:52	15:00
G051*	Tarvydu k. 1	3:22	8:15
G052*	Tarvydu k. 3	2:58	5:56
G053	Tirkslioniu k. 3	4:52	
G054	Gacioniu k., Mokyklos g. 1	3:26	
G055*	Tarvydu k. 13	2:49	6:40
G056*	Vaitkunu k. 7	2:29	5:54
G057*	Medines vs. 1	7:50	11:52
G058*	Vaitkunu k. 2	1:13	9:46
G059*	Vaitkunu k. 1	2:52	10:39
G060*	Banciu k. 12	6:32	6:54
G061	Getautu k. 6	1:51	
G062	Sermuksniu k. 1	0:00	

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SHADOW - Main Result

Calculation: real 2 alt (shutdown)

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G063*	Laukugalio vs. 2	5:00	7:09
G064*	Laukugalio vs. 1	4:23	10:40
G065*	Deglenu k., Parko g. 24	3:49	5:02
G066*	Deglenu k., Parko g. 15	6:00	4:50
G067*	Deglenu k., Pelkiu g. 2	3:53	6:52
G068*	Pagirnupiu k. 1	3:59	7:25
G069	Spilgiu k. 5	5:30	
G070*	Sitkunu k. 5	5:48	45:12
G071*	Sitkunu k. 3	4:48	8:08
G072*	Sitkunu k. 1	5:00	7:45
G073	Puodziskiu k. 6	5:42	
G074*	Sieciu k. 1	5:00	8:23
G075*	Sieciu k. 3	5:04	9:07
G076*	Kapciunu k., Zilviciu g. 1	4:49	4:32
G077*	Kapciunu k., Zilviciu g. 2	3:07	8:36
G078*	Kapciunu k., Zilviciu g. 13	5:18	3:59
G079*	Nakiskiu k., Liepu g. 1B	0:59	8:35
G080*	Valdeikiu k., Lauko g. 3A	4:30	10:42
G081	Valdeikiu k., Lauko g. 7	4:34	
G082*	Valdeikiu k., Lauko g. 5	2:39	5:24
G083*	Valdeikiu k., Lauko g. 3	5:06	6:53
G084	Valdeikiu k., Alyvu g. 16	6:22	
G085	Valdeikiu k., Alyvu g. 7	4:59	
G086*	Augustavo k. 1	6:49	13:05
G087	Lasmenpamusio k., Misko g. 3	3:19	
G088*	Naujasodzio k., Naujasodzio g., 56	3:13	5:17
G089*	Naujasodzio k., Naujasodzio g., 55	3:08	4:40
G090*	Naujasodzio k., Naujasodzio g., 57	2:53	5:44
G091*	Naujasodzio k., Naujasodzio g., 59	2:54	6:33
G092*	Naujasodzio k., Naujasodzio g., 61	5:14	6:54
G093*	Birjagalos k., 11	3:46	5:34
G094*	Birjagalos k., 10	4:27	4:56
G095*	Birjagalos k., 9	3:59	4:15
G096*	Birjagalos k., 8	3:46	4:20
G097*	Maldziunu k., 4	5:41	6:31
G098*	Maldziunu k., 5	5:22	6:08
G099*	Maldziunu k., 9	6:36	6:19
G100*	Maldziunu k., 8	4:50	4:17
G101*	Maldziunu k., 11	6:49	4:48
G102*	Maldziunu k., 13	5:14	4:57
G103*	Gikoniu k., 7	2:08	5:54
G104*	Gikoniu k., 6	1:49	6:39
G105*	Celkiu k., 12	6:53	1:35
G106*	Celkiu k., 8	6:24	1:40
G107*	Celkiu k., 7	7:36	3:13
G108*	Celkiu k., 6A	7:26	3:24
G109*	Celkiu k., 5	6:29	1:33
G110*	Celkiu k., 3	7:28	2:17
G111*	Mediniskiu k., 13	2:40	8:28
G112*	Mediniskiu k., 9	4:29	4:56
G113*	Mediniskiu k., 7	6:24	2:55
G114*	Mediniskiu k., 6	6:17	2:25
G115*	Mediniskiu k., 5	5:51	2:37
G116*	Mediniskiu k., 4	5:28	2:51
G117*	Mediniskiu k., 3A	5:05	3:41
G118*	Mediniskiu k., 2	5:17	5:25
G119*	Mediniskiu k., 1	6:03	9:55
G120*	Tarvydu k., 7A	5:40	2:52
G121*	Tarvydu k., 7B	5:23	3:20
G122*	Tarvydu k., 9	5:24	3:09
G123*	Tarvydu k., 8	4:35	4:29
G124*	Tarvydu k., 11	2:51	6:32
G125*	Tarvydu k., 10	3:09	5:58
G126*	Zvirbloniu k., Rozalimo g., 6	4:41	4:08

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SHADOW - Main Result

Calculation: real 2 alt (shutdown)

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G127*	Zvirbloniu k., Rozalimo g., 8	4:29	4:05
G128*	Zvirbloniu k., Rozalimo g., 10	4:17	4:04
G129*	Zvirbloniu k., Rozalimo g., 12	4:04	4:09
G130*	Zvirbloniu k., Rozalimo g., 14	3:55	4:16
G131*	Zvirbloniu k., Rozalimo g., 3V	7:49	2:26
G132*	Zvirbloniu k., Rozalimo g., 7	4:23	4:17
G133*	Zvirbloniu k., Rozalimo g., 9	4:01	4:43
G134*	Zvirbloniu k., Rozalimo g., 11	4:17	5:36
G135*	Vaitkunu k., 3	3:40	4:15
G136*	Vaitkunu k., 5	3:22	5:18
G137*	Meldiniu k., Seduvos g., 21	3:46	4:45
G138*	Meldiniu k., Seduvos g., 19	3:40	5:05
G139*	Meldiniu k., Seduvos g., 17	3:28	5:40
G140*	Deglenu k., Parko g., 26	3:35	6:47
G141*	Puodziskiu k., 7	5:06	6:27
G142*	Sitkunu k., 2	4:54	7:58
G143*	Deglenu k., Parko g., 16	3:26	5:07
G144*	Deglenu k., Parko g., 7	3:41	5:36
G145*	Deglenu k., Parko g., 14	3:12	5:42
G146*	Deglenu k., Parko g., 12	3:00	5:41
G147*	Deglenu k., Parko g., 10	2:56	5:30
G148*	Deglenu k., Pelkiu g., 1	3:05	5:49
G149*	Deglenu k., Pelkiu g., 3	3:22	6:41
G150*	Deglenu k., Pelkiu g., 9	3:41	7:19
G151*	Deglenu k., Pelkiu g., 5	3:16	6:02
G152*	Deglenu k., Pelkiu g., 7	3:29	6:54
G153*	Kapciunu k., Zilviciø g., 23	6:37	3:44
G154*	Kapciunu k., Zilviciø g., 21	5:49	3:59
G155*	Kapciunu k., Zilviciø g., 18	5:31	3:40
G156*	Kapciunu k., Zilviciø g., 19	5:47	4:08
G157*	Kapciunu k., Zilviciø g., 16	5:22	3:42
G158*	Kapciunu k., Zilviciø g., 17	5:33	4:07
G159*	Kapciunu k., Zilviciu g., 15	5:25	4:02
G160*	Kapciunu k., Zilviciø g., 14	5:11	3:38
G161*	Kapciunu k., Zilviciø g., 12	4:59	3:33
G162*	Kapciunu k., Zilviciu g., 10	4:43	3:31
G163*	Kapciunu k., Zilviciu g., 9	4:56	3:58
G164*	Kapciunu k., Zilviciu g., 7	4:52	3:56
G165*	Kapciunu k., Zilviciø g., 8	4:35	3:30
G166*	Kapciunu k., Zilviciu g., 5	4:45	3:50
G167*	Kapciunu k., Roziu g., 1	5:37	3:29
G168*	Kapciunu k., Roziu g., 3	5:44	4:04
G169*	Kapciunu k., Roziu g., 5	5:36	4:40
G170*	Kapciunu k., Roziu g., 7	5:20	5:21
G171*	Kapciunu k., Roziu g., 9	5:05	5:49
G172*	Kapciunu k., Roziu g., 11	4:36	6:31
G173*	Kapciunu k., Roziu g., 13	4:11	7:03
G174*	Kapciunu k., Roziu g., 4	3:57	7:33
G175*	Kapciunu k., Zilviciu g., 6	4:42	4:09
G176*	Kapciunu k., Zilviciø g., 4	4:32	4:52
G177*	Sieciu k., 2	4:31	7:08
G178*	Sieciu k., 4	4:05	4:40
G179*	Sieciu k., 5	3:58	4:14
G180*	Sieciu k., 10	5:37	2:56
G181*	Sieciu k., 11	5:51	2:43
G182*	Sieciu k., 12	6:05	2:42
G183*	Sieciu k., 13	6:06	2:33
G184*	Sieciu k., 14	6:16	2:33
G185*	Augustavo k., 3	5:55	12:48
G186*	Augustavo k., 4	5:25	12:57

* Receptors where shadow flicker is reduced by curtailment

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SHADOW - Main Result

Calculation: real 2 alt (shutdown)

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

No.	Name	Stopped due to flicker curtailment [h/year]	Expected [h/year]
1	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (312)	219:24	5:18
2	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (219)		6:30
3	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (220)		3:38
4	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (221)	78:35	0:00
5	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (222)		2:38
6	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (223)	86:27	3:43
7	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (224)		3:11
8	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (225)	30:49	7:11
10	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (226)	71:56	2:23
11	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (227)	83:43	17:59
12	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (228)	184:12	3:09
13	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (229)	89:06	1:39
14	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (230)	93:58	8:45
15	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (231)	103:26	15:11
16	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (306)		17:19
17	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (232)	144:34	21:14
18	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (233)		8:16
19	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (234)		7:03
20	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (235)		6:20
21	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (236)	103:02	3:33
22	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (237)		12:50
23	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (238)	122:24	4:53
24	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (239)		3:06
25	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (240)	66:45	5:25
26	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (241)	118:31	5:40
27	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (242)	96:57	11:41
28	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (243)		12:53
29	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (244)	224:17	6:52
30	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (245)	183:59	3:52
32	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (246)		4:08
33	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (247)	87:37	6:15
34	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (248)		0:28
35	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (307)		1:25
36	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (249)		0:00
40	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (250)		3:16
41	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (251)		4:58
42	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (252)		0:55
43	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (253)		7:23
44	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (254)	151:35	0:35
46	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (308)		4:44
47	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (255)		5:01
50	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (256)	23:48	9:37
51	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (257)		10:09
52	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (258)	71:12	6:23
53	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (259)	90:12	6:47
54	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (260)	321:01	1:50
55	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (261)	117:13	7:50
56	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (262)	209:12	4:19
61	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (263)		0:00
62	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (264)		0:00
63	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (265)		2:04
64	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (266)		0:00
65	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (267)		0:00
66	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (268)		0:04
67	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (269)		3:35
68	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (270)	221:28	2:15
69	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (271)		12:25
70	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (272)	159:32	10:26
71	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (273)		1:53
72	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (274)	114:23	1:26
73	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (275)		4:11
74	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (276)		7:14
75	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (277)		1:37
76	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (278)	68:18	0:39
77	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (279)		2:27
78	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (280)		1:24

To be continued on next page...

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Calculated:
2023-01-15 17:34/3.5.584

SHADOW - Main Result

Calculation: real 2 alt (shutdown)

...continued from previous page

No.	Name	Stopped due to flicker curtailment [h/year]	Expected [h/year]
79	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (281)		2:20
80	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (282)	63:53	8:57
81	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (283)	136:31	1:51
82	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (284)		5:00
83	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (285)		0:00
84	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (286)		3:28
85	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (287)		1:29
86	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (288)	45:31	8:03
100	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (289)		9:01
101	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (313)	80:53	1:09
102	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (290)		10:41
103	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (291)	50:17	3:46
104	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (292)	138:56	12:00
105	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (310)	229:41	5:53
106	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (293)		7:08
107	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (294)	89:59	1:48
108	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (309)		11:43
109	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (295)		4:21
110	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (296)		3:17
111	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (297)		3:16
113	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (298)		4:17
114	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (299)	44:36	5:30
116	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (300)		3:38
117	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (301)		7:54
118	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (302)	38:33	3:36
119	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (303)	117:16	3:24
120	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (304)	91:28	7:35
121	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (305)	51:37	2:17
122	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (311)	137:18	3:35

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.

Šešėliavimo modeliavimo rezultatai (SUMINIS)

Planuojamos VE, 1 alternatyva + suplanuotos VE

Realus scenarijus

Project:

Planuojamos VE

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Calculated:
2023-01-15 18:17/3.5.584

SHADOW - Main Result

Calculation: real 1 alt SUM

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) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,50	1,10	2,10	3,60	4,60	5,10	4,10	3,70	2,80	1,80	0,50	0,50

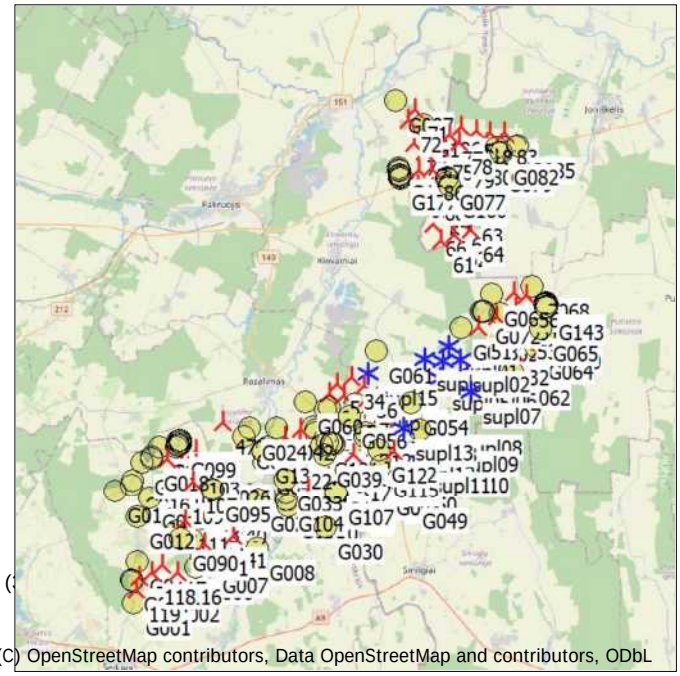
Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
220	210	244	285	296	284	405	479	705	843	872	825

W	WNW	NW	NNW	Sum
594	453	392	252	7 359

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:
Height contours used: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (
Obstacles used in calculation
Receptor grid resolution: 1,0 m

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



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

Scale 1:400 000

New WTG Existing WTG Shadow receptor

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data Calculation distance [m]	RPM [RPM]
10	499 339	6 192 768	61,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
100	488 194	6 191 149	80,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
102	488 982	6 191 798	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
103	488 965	6 191 068	78,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
104	487 476	6 191 336	82,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
106	488 063	6 190 365	82,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
107	488 774	6 190 102	80,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
109	488 087	6 189 566	83,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
11	497 369	6 191 579	64,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
110	487 703	6 188 978	84,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
111	488 421	6 188 060	82,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
113	490 066	6 187 468	78,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
114	489 221	6 187 494	78,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
116	487 980	6 185 307	88,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
117	487 161	6 185 699	88,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
118	486 652	6 185 248	93,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
119	485 819	6 184 360	92,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
12	499 507	6 191 740	65,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
120	485 934	6 185 058	92,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
121	489 431	6 186 798	81,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
13	500 115	6 190 809	62,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
14	495 141	6 191 057	67,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
15	496 783	6 191 238	65,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
17	497 583	6 190 780	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
18	493 716	6 191 249	68,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
19	497 635	6 189 136	66,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
2	496 072	6 194 828	64,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
20	495 806	6 188 619	67,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
21	495 609	6 190 697	65,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
22	494 421	6 191 419	66,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
23	493 760	6 192 484	66,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
24	494 001	6 190 607	68,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
25	494 709	6 190 521	69,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

To be continued on next page...

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Calculated:
2023-01-15 18:17/3.5.584

SHADOW - Main Result

Calculation: real 1 alt SUM

...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]
26	494 932	6 189 704	66,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
27	494 485	6 192 255	65,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
28	495 029	6 188 944	69,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
29	494 537	6 192 945	66,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
3	496 849	6 194 676	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
30	500 372	6 190 171	64,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
32	505 943	6 196 959	51,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
33	506 501	6 197 500	52,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
34	497 216	6 195 690	62,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
36	497 918	6 195 220	64,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
4	498 094	6 194 549	63,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
40	490 952	6 188 461	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
41	490 956	6 187 214	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
42	490 653	6 187 850	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
43	489 521	6 188 529	79,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
44	489 437	6 190 532	78,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
47	490 409	6 193 275	74,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
5	496 494	6 195 320	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
50	505 860	6 200 126	53,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
51	503 975	6 198 287	53,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
52	505 377	6 198 220	53,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
53	506 394	6 198 319	53,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
54	504 944	6 198 838	51,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
55	505 959	6 199 299	51,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
56	506 528	6 199 986	49,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
6	497 904	6 193 492	62,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
61	501 980	6 202 855	53,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
62	502 661	6 203 174	51,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
63	503 539	6 204 406	52,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
64	503 565	6 203 472	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
65	502 954	6 203 915	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
66	501 612	6 203 764	51,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
67	501 790	6 204 579	52,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
68	501 526	6 205 637	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
69	500 755	6 205 769	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
7	498 844	6 193 650	64,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
70	500 821	6 206 587	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
71	500 601	6 209 783	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
72	500 267	6 209 231	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
73	500 586	6 208 007	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
74	501 149	6 207 565	51,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
75	501 930	6 207 730	51,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
76	501 664	6 208 359	50,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
77	502 453	6 208 484	52,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
78	502 973	6 208 028	50,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
79	503 046	6 207 349	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
8	499 435	6 193 560	60,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
80	504 037	6 207 522	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
81	504 430	6 208 007	49,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
82	504 605	6 208 569	50,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
83	505 334	6 208 566	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
84	503 858	6 208 700	52,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
85	503 067	6 208 838	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
86	501 486	6 206 678	50,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
supl01	502 436	6 197 303	56,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl02	503 036	6 196 566	54,9	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl03	502 082	6 196 517	56,6	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl04	501 131	6 196 610	57,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl05	501 940	6 195 622	57,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl06	503 373	6 195 727	55,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl07	503 573	6 194 904	55,1	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl08	502 607	6 193 214	55,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl09	502 370	6 192 359	57,1	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl10	501 932	6 191 233	59,4	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0

To be continued on next page...

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Calculated:
2023-01-15 18:17/3.5.584

SHADOW - Main Result

Calculation: real 1 alt SUM

...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]
supl11	500 931	6 191 239	62,8	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl12	500 094	6 191 851	58,7	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl13	500 032	6 192 948	62,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl14	498 563	6 194 570	62,3	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl15	498 132	6 195 824	62,2	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0

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]
G001	Niauduvos k.	485 653	6 183 651	94,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G002	Bauku k. 7	487 204	6 184 343	91,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G003	Alksniupiu k., Algirdo g. 2B	485 575	6 184 850	93,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G004	Alksniupiu k., Algirdo g. 1A	485 494	6 184 885	93,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G005	Alksniupiu k., Algirdo g. 2A	485 874	6 185 842	93,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G006	Sniukoniu k. 1	488 977	6 185 543	87,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G007	Sniukoniu k. 11	489 711	6 185 892	85,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G008	Raginenu k. 11	492 228	6 186 557	76,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G009	Sliekiu k. 2	488 735	6 186 999	85,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G010	Naujasodzio k., Naujasodzio g. 51A	487 944	6 187 504	90,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G011	Sileikoniu k., Dauksu g. 10	487 471	6 188 215	88,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G012	Sileikoniu k., Sakos g. 8	485 882	6 188 215	90,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G013	Birutes k. 4	486 534	6 189 273	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G014	Radviloniu k., Parko g. 14	484 654	6 189 647	93,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G015	Amalijos k. 5	485 546	6 189 943	90,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G016	Amalijos k. 7	485 593	6 190 214	87,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G017	Zybartu k.	486 093	6 191 136	87,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G018	Krupiskio k. 1	486 619	6 191 381	85,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G019	Krupiskio k. 2	486 627	6 191 441	86,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G020	Lineliu k.	487 041	6 191 957	82,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G021	Maldziunu k. 1	487 940	6 191 965	83,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G022	Maldziunu k. 10	488 171	6 192 124	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G023	Maldziunu k. 14	488 172	6 192 305	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G024	Meldiniu k., Seduvos g. 1	491 860	6 192 984	73,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G025	Meldiniu k., Seduvos g. 5	491 513	6 192 503	75,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G026	Birjagalos k. 7	489 915	6 190 563	81,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G027	Birjagalos k. 12	490 006	6 189 447	79,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G028	Plauciskiu k., Birjagalos g. 17	491 855	6 189 434	77,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G029	Plauciskiu k., Sturiskiu g. 9	492 258	6 189 168	73,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G030	Jasoniu k. 6	495 876	6 187 667	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G031	Gikoniu k. 8	493 884	6 188 801	72,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G032	Gikoniu k. 3	493 787	6 189 489	71,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G033	Simaniskiu k. 4	493 703	6 190 245	72,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G034	Celkiu k. 10	496 464	6 189 430	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G035	Celkiu k. 6	496 402	6 189 549	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G036	Celkiu k. 1	496 357	6 189 951	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G037	Celkiu k.	497 190	6 191 028	64,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G038	Galeliu k. 3	495 743	6 191 361	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G039	Galeliu k. 1	495 816	6 191 558	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G040	Meldiniu k., Seduvos g. 18	492 638	6 191 111	69,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G041	Meldiniu k., Seduvos g. 6	492 814	6 191 939	67,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G042	Simaniskiu k. 3	493 283	6 192 971	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G043	Butnalaukio k. 1	495 207	6 193 029	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G044	Butnalaukio k. 3	495 334	6 192 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G045	Butnalaukio k. 4	495 354	6 192 693	67,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G046	Tarvydu k. 4	497 988	6 191 917	63,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G047	Mediniskiu k. 3	498 537	6 191 168	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G048	Mediniskiu k. 8	498 979	6 190 001	68,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G049	Zvalgu k. 4	500 379	6 189 275	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G050	Mediniskiu k. 11	499 826	6 190 188	63,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G051	Tarvydu k. 1	498 776	6 191 701	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G052	Tarvydu k. 3	498 746	6 191 818	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G053	Tirkslioniu k. 3	500 887	6 192 830	63,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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Calculated:
2023-01-15 18:17/3.5.584

SHADOW - Main Result

Calculation: real 1 alt SUM

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G054	Gacioniu k., Mokyklos g. 1	500 400	6 194 286	61,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G055	Tarvydu k. 13	498 057	6 192 740	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G056	Vaitkunu k. 7	497 149	6 193 578	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G057	Medines vs. 1	497 446	6 194 266	65,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G058	Vaitkunu k. 2	496 074	6 194 052	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G059	Vaitkunu k. 1	495 830	6 193 898	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G060	Banciu k. 12	494 809	6 194 324	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G061	Getautu k. 6	498 558	6 197 039	61,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G062	Sermuksniu k. 1	505 805	6 195 898	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G063	Laukugalio vs. 2	507 053	6 197 207	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G064	Laukugalio vs. 1	507 058	6 197 252	54,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G065	Deglenu k., Parko g. 24	507 315	6 198 201	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G066	Deglenu k., Parko g. 15	507 227	6 198 598	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G067	Deglenu k., Pelkiu g. 2	507 475	6 199 503	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G068	Pagirnupiu k. 1	506 841	6 200 422	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G069	Spilgiu k. 5	504 690	6 200 027	56,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G070	Sitkunu k. 5	505 156	6 199 032	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G071	Sitkunu k. 3	504 266	6 199 133	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G072	Sitkunu k. 1	504 215	6 199 100	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G073	Puodziskiu k. 6	503 046	6 198 254	55,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G074	Sieciu k. 1	499 843	6 206 143	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G075	Sieciu k. 3	499 893	6 206 222	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G076	Kapciunu k., Zilviciu g. 1	502 078	6 206 118	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G077	Kapciunu k., Zilviciu g. 2	502 331	6 206 194	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G078	Kapciunu k., Zilviciu g. 13	502 400	6 205 794	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G079	Nakiskiu k., Liepu g. 1B	504 908	6 207 129	51,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G080	Valdeikiu k., Lauko g. 3A	504 950	6 207 777	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G081	Valdeikiu k., Lauko g. 7	505 021	6 207 503	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G082	Valdeikiu k., Lauko g. 5	505 215	6 207 540	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G083	Valdeikiu k., Lauko g. 3	505 338	6 207 743	50,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G084	Valdeikiu k., Alyvu g. 16	505 983	6 207 824	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G085	Valdeikiu k., Alyvu g. 7	506 039	6 207 854	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G086	Augustavo k. 1	501 184	6 208 813	55,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G087	Lasmenpamusio k., Misko g. 3	499 589	6 210 270	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G088	Naujasodzio k., Naujasodzio g., 56	488 090	6 187 037	92,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G089	Naujasodzio k., Naujasodzio g., 55	488 078	6 187 078	91,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G090	Naujasodzio k., Naujasodzio g., 57	488 123	6 187 080	91,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G091	Naujasodzio k., Naujasodzio g., 59	488 156	6 187 082	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G092	Naujasodzio k., Naujasodzio g., 61	488 232	6 187 100	86,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G093	Birjagalos k., 11	489 966	6 189 496	79,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G094	Birjagalos k., 10	489 912	6 189 587	79,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G095	Birjagalos k., 9	489 857	6 189 674	81,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G096	Birjagalos k., 8	489 822	6 189 716	80,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G097	Maldziunu k., 4	487 973	6 192 023	82,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G098	Maldziunu k., 5	487 966	6 192 059	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G099	Maldziunu k., 9	488 078	6 192 098	83,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G100	Maldziunu k., 8	487 993	6 192 263	83,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G101	Maldziunu k., 11	488 155	6 192 232	80,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G102	Maldziunu k., 13	488 131	6 192 303	81,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G103	Gikoniu k., 7	493 814	6 189 053	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G104	Gikoniu k., 6	493 788	6 189 157	69,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G105	Celkiu k., 12	496 514	6 189 399	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G106	Celkiu k., 8	496 459	6 189 458	69,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G107	Celkiu k., 7	496 424	6 189 478	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G108	Celkiu k., 6A	496 410	6 189 497	70,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G109	Celkiu k., 5	496 426	6 189 755	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G110	Celkiu k., 3	496 359	6 189 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G111	Mediniskiu k., 13	499 410	6 189 814	67,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G112	Mediniskiu k., 9	499 215	6 190 141	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G113	Mediniskiu k., 7	498 959	6 190 756	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G114	Mediniskiu k., 6	498 829	6 190 916	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G115	Mediniskiu k., 5	498 820	6 190 943	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G116	Mediniskiu k., 4	498 804	6 190 972	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G117	Mediniskiu k., 3A	498 747	6 191 062	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G118	Mediniskiu k., 2	498 812	6 191 293	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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Calculated:
2023-01-15 18:17/3.5.584

SHADOW - Main Result

Calculation: real 1 alt SUM

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G119	Mediniskiu k., 1	498 584	6 191 327	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G120	Tarvydu k., 7A	497 970	6 192 507	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G121	Tarvydu k., 7B	497 974	6 192 537	65,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G122	Tarvydu k., 9	498 031	6 192 552	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G123	Tarvydu k., 8	497 988	6 192 603	66,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G124	Tarvydu k., 11	498 030	6 192 716	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G125	Tarvydu k., 10	497 993	6 192 731	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G126	Zvirbloniu k., Rozalimo g., 6	496 303	6 192 111	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G127	Zvirbloniu k., Rozalimo g., 8	496 269	6 192 136	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G128	Zvirbloniu k., Rozalimo g., 10	496 248	6 192 150	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G129	Zvirbloniu k., Rozalimo g., 12	496 225	6 192 166	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G130	Zvirbloniu k., Rozalimo g., 14	496 198	6 192 176	67,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G131	Zvirbloniu k., Rozalimo g., 3V	495 681	6 192 015	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G132	Zvirbloniu k., Rozalimo g., 7	495 987	6 192 212	69,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G133	Zvirbloniu k., Rozalimo g., 9	495 926	6 192 273	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G134	Zvirbloniu k., Rozalimo g., 11	495 813	6 192 321	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G135	Vaitkunu k., 3	496 802	6 193 104	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G136	Vaitkunu k., 5	496 849	6 193 143	64,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G137	Meldiniu k., Seduvos g., 21	492 526	6 191 703	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G138	Meldiniu k., Seduvos g., 19	492 526	6 191 733	71,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G139	Meldiniu k., Seduvos g., 17	492 528	6 191 794	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G140	Deglenu k., Parko g., 26	507 454	6 197 833	54,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G141	Puodziskiu k., 7	504 154	6 199 097	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G142	Sitkunu k., 2	504 241	6 199 117	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G143	Deglenu k., Parko g., 16	507 628	6 199 335	55,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G144	Deglenu k., Parko g., 7	507 545	6 199 399	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G145	Deglenu k., Parko g., 14	507 645	6 199 387	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G146	Deglenu k., Parko g., 12	507 674	6 199 426	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G147	Deglenu k., Parko g., 10	507 666	6 199 465	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G148	Deglenu k., Pelkiu g., 1	507 615	6 199 514	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G149	Deglenu k., Pelkiu g., 3	507 554	6 199 535	52,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G150	Deglenu k., Pelkiu g., 9	507 493	6 199 553	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G151	Deglenu k., Pelkiu g., 5	507 558	6 199 579	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G152	Deglenu k., Pelkiu g., 7	507 517	6 199 591	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G153	Kapciunu k., Zilviciø g., 23	502 481	6 205 584	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G154	Kapciunu k., Zilviciø g., 21	502 454	6 205 669	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G155	Kapciunu k., Zilviciø g., 18	502 489	6 205 677	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G156	Kapciunu k., Zilviciø g., 19	502 436	6 205 693	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G157	Kapciunu k., Zilviciø g., 16	502 472	6 205 727	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G158	Kapciunu k., Zilviciø g., 17	502 424	6 205 733	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G159	Kapciunu k., Zilviciu g., 15	502 416	6 205 761	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G160	Kapciunu k., Zilviciø g., 14	502 445	6 205 787	53,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G161	Kapciunu k., Zilviciø g., 12	502 422	6 205 838	54,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G162	Kapciunu k., Zilviciu g., 10	502 380	6 205 918	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G163	Kapciunu k., Zilviciu g., 9	502 327	6 205 915	52,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G164	Kapciunu k., Zilviciu g., 7	502 322	6 205 934	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G165	Kapciunu k., Zilviciø g., 8	502 369	6 205 948	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G166	Kapciunu k., Zilviciu g., 5	502 321	6 205 958	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G167	Kapciunu k., Roziu g., 1	502 373	6 206 010	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G168	Kapciunu k., Roziu g., 3	502 397	6 206 025	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G169	Kapciunu k., Roziu g., 5	502 424	6 206 034	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G170	Kapciunu k., Roziu g., 7	502 449	6 206 045	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G171	Kapciunu k., Roziu g., 9	502 469	6 206 051	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G172	Kapciunu k., Roziu g., 11	502 501	6 206 061	55,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G173	Kapciunu k., Roziu g., 13	502 522	6 206 071	55,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G174	Kapciunu k., Roziu g., 4	502 492	6 206 098	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G175	Kapciunu k., Zilviciu g., 6	502 311	6 206 080	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G176	Kapciunu k., Zilviciø g., 4	502 304	6 206 109	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G177	Sieciu k., 2	499 804	6 206 197	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G178	Sieciu k., 4	499 793	6 206 279	51,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G179	Sieciu k., 5	499 791	6 206 308	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G180	Sieciu k., 10	499 793	6 206 563	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G181	Sieciu k., 11	499 762	6 206 567	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G182	Sieciu k., 12	499 759	6 206 593	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G183	Sieciu k., 13	499 742	6 206 662	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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Calculated:
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SHADOW - Main Result

Calculation: real 1 alt SUM

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G184	Sieciu k., 14	499 744	6 206 708	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G185	Augustavo k., 3	501 069	6 208 893	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G186	Augustavo k., 4	501 084	6 208 959	51,3	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]
G001	Niauduvos k.	0:00
G002	Bauku k. 7	6:43
G003	Alksniupiu k., Algirdo g. 2B	14:13
G004	Alksniupiu k., Algirdo g. 1A	23:14
G005	Alksniupiu k., Algirdo g. 2A	6:51
G006	Sniukoniu k. 1	3:53
G007	Sniukoniu k. 11	0:47
G008	Raginenu k. 11	4:58
G009	Sliekiu k. 2	8:29
G010	Naujasodzio k., Naujasodzio g. 51A	6:22
G011	Sileikoniu k., Dauksu g. 10	3:51
G012	Sileikoniu k., Sakos g. 8	1:26
G013	Birutes k. 4	6:19
G014	Radviloniu k., Parko g. 14	0:00
G015	Amalijos k. 5	0:00
G016	Amalijos k. 7	0:00
G017	Zybartu k.	2:10
G018	Krupiskio k. 1	6:24
G019	Krupiskio k. 2	5:37
G020	Lineliu k.	5:23
G021	Maldziunu k. 1	9:30
G022	Maldziunu k. 10	8:10
G023	Maldziunu k. 14	6:05
G024	Meldiniu k., Seduvos g. 1	2:32
G025	Meldiniu k., Seduvos g. 5	3:04
G026	Birjagalos k. 7	31:20
G027	Birjagalos k. 12	9:34
G028	Plauciskiu k., Birjagalos g. 17	1:48
G029	Plauciskiu k., Sturiskiu g. 9	1:09
G030	Jasoniu k. 6	0:00
G031	Gikoniu k. 8	3:54
G032	Gikoniu k. 3	4:44
G033	Simaniskiu k. 4	11:44
G034	Celkiu k. 10	6:42
G035	Celkiu k. 6	8:55
G036	Celkiu k. 1	9:34
G037	Celkiu k.	17:15
G038	Galeliu k. 3	23:17
G039	Galeliu k. 1	17:20
G040	Meldiniu k., Seduvos g. 18	5:23
G041	Meldiniu k., Seduvos g. 6	11:16
G042	Simaniskiu k. 3	8:27
G043	Butnalaukio k. 1	11:13
G044	Butnalaukio k. 3	11:23
G045	Butnalaukio k. 4	15:50
G046	Tarvydu k. 4	12:56
G047	Mediniskiu k. 3	16:57
G048	Mediniskiu k. 8	10:34
G049	Zvalgu k. 4	0:00
G050	Mediniskiu k. 11	15:00
G051	Tarvydu k. 1	12:54
G052	Tarvydu k. 3	10:46
G053	Tirkslioniu k. 3	14:51

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SHADOW - Main Result

Calculation: real 1 alt SUM

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G054	Gacioniu k., Mokyklos g. 1	3:52
G055	Tarvydu k. 13	9:32
G056	Vaitkunu k. 7	10:22
G057	Medines vs. 1	22:47
G058	Vaitkunu k. 2	1:13
G059	Vaitkunu k. 1	2:52
G060	Banciu k. 12	6:32
G061	Getautu k. 6	1:24
G062	Sermuksniu k. 1	0:00
G063	Laukugalio vs. 2	12:10
G064	Laukugalio vs. 1	15:05
G065	Deglenu k., Parko g. 24	8:57
G066	Deglenu k., Parko g. 15	11:03
G067	Deglenu k., Pelkiu g. 2	10:52
G068	Pagirnupiu k. 1	11:25
G069	Spilgiu k. 5	5:30
G070	Sitkunu k. 5	51:01
G071	Sitkunu k. 3	13:07
G072	Sitkunu k. 1	12:54
G073	Puodziskiu k. 6	7:46
G074	Sieciu k. 1	13:20
G075	Sieciu k. 3	14:06
G076	Kapciunu k., Zilviciu g. 1	9:28
G077	Kapciunu k., Zilviciu g. 2	11:44
G078	Kapciunu k., Zilviciu g. 13	9:18
G079	Nakiskiu k., Liepu g. 1B	9:35
G080	Valdeikiu k., Lauko g. 3A	15:16
G081	Valdeikiu k., Lauko g. 7	4:34
G082	Valdeikiu k., Lauko g. 5	8:05
G083	Valdeikiu k., Lauko g. 3	12:00
G084	Valdeikiu k., Alyvu g. 16	6:22
G085	Valdeikiu k., Alyvu g. 7	4:59
G086	Augustavo k. 1	20:08
G087	Lasmenpamusio k., Misko g. 3	3:19
G088	Naujasodzio k., Naujasodzio g., 56	8:30
G089	Naujasodzio k., Naujasodzio g., 55	7:49
G090	Naujasodzio k., Naujasodzio g., 57	8:38
G091	Naujasodzio k., Naujasodzio g., 59	9:27
G092	Naujasodzio k., Naujasodzio g., 61	12:10
G093	Birjagalos k., 11	9:35
G094	Birjagalos k., 10	9:32
G095	Birjagalos k., 9	8:20
G096	Birjagalos k., 8	8:11
G097	Maldziunu k., 4	8:29
G098	Maldziunu k., 5	8:01
G099	Maldziunu k., 9	7:40
G100	Maldziunu k., 8	5:58
G101	Maldziunu k., 11	6:39
G102	Maldziunu k., 13	6:03
G103	Gikoniu k., 7	8:00
G104	Gikoniu k., 6	8:26
G105	Celkiu k., 12	6:46
G106	Celkiu k., 8	6:34
G107	Celkiu k., 7	9:28
G108	Celkiu k., 6A	9:33
G109	Celkiu k., 5	6:49
G110	Celkiu k., 3	8:47
G111	Mediniskiu k., 13	9:09
G112	Mediniskiu k., 9	7:20
G113	Mediniskiu k., 7	8:04
G114	Mediniskiu k., 6	9:54
G115	Mediniskiu k., 5	10:16
G116	Mediniskiu k., 4	10:43
G117	Mediniskiu k., 3A	12:27

To be continued on next page...

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SHADOW - Main Result

Calculation: real 1 alt SUM

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G118	Mediniskiu k., 2	13:52
G119	Mediniskiu k., 1	17:26
G120	Tarvydu k., 7A	8:36
G121	Tarvydu k., 7B	8:46
G122	Tarvydu k., 9	8:37
G123	Tarvydu k., 8	9:08
G124	Tarvydu k., 11	9:26
G125	Tarvydu k., 10	9:12
G126	Zvirbloniu k., Rozalimo g., 6	8:50
G127	Zvirbloniu k., Rozalimo g., 8	8:34
G128	Zvirbloniu k., Rozalimo g., 10	8:22
G129	Zvirbloniu k., Rozalimo g., 12	8:15
G130	Zvirbloniu k., Rozalimo g., 14	8:12
G131	Zvirbloniu k., Rozalimo g., 3V	10:20
G132	Zvirbloniu k., Rozalimo g., 7	8:45
G133	Zvirbloniu k., Rozalimo g., 9	8:50
G134	Zvirbloniu k., Rozalimo g., 11	10:01
G135	Vaitkunu k., 3	5:05
G136	Vaitkunu k., 5	5:20
G137	Meldiniu k., Seduvos g., 21	8:26
G138	Meldiniu k., Seduvos g., 19	8:40
G139	Meldiniu k., Seduvos g., 17	9:02
G140	Deglenu k., Parko g., 26	10:28
G141	Puodziskiu k., 7	11:41
G142	Sitkunu k., 2	13:02
G143	Deglenu k., Parko g., 16	8:38
G144	Deglenu k., Parko g., 7	9:23
G145	Deglenu k., Parko g., 14	8:59
G146	Deglenu k., Parko g., 12	8:45
G147	Deglenu k., Parko g., 10	8:31
G148	Deglenu k., Pelkiu g., 1	8:59
G149	Deglenu k., Pelkiu g., 3	10:09
G150	Deglenu k., Pelkiu g., 9	11:08
G151	Deglenu k., Pelkiu g., 5	9:24
G152	Deglenu k., Pelkiu g., 7	10:30
G153	Kapciunu k., Zilviciø g., 23	10:24
G154	Kapciunu k., Zilviciø g., 21	9:49
G155	Kapciunu k., Zilviciø g., 18	9:13
G156	Kapciunu k., Zilviciø g., 19	9:56
G157	Kapciunu k., Zilviciø g., 16	9:05
G158	Kapciunu k., Zilviciø g., 17	9:41
G159	Kapciunu k., Zilviciu g., 15	9:28
G160	Kapciunu k., Zilviciø g., 14	8:50
G161	Kapciunu k., Zilviciø g., 12	8:32
G162	Kapciunu k., Zilviciu g., 10	8:13
G163	Kapciunu k., Zilviciu g., 9	8:53
G164	Kapciunu k., Zilviciu g., 7	8:46
G165	Kapciunu k., Zilviciø g., 8	8:04
G166	Kapciunu k., Zilviciu g., 5	8:33
G167	Kapciunu k., Roziu g., 1	9:05
G168	Kapciunu k., Roziu g., 3	9:47
G169	Kapciunu k., Roziu g., 5	10:16
G170	Kapciunu k., Roziu g., 7	10:41
G171	Kapciunu k., Roziu g., 9	10:54
G172	Kapciunu k., Roziu g., 11	11:09
G173	Kapciunu k., Roziu g., 13	11:16
G174	Kapciunu k., Roziu g., 4	11:31
G175	Kapciunu k., Zilviciu g., 6	8:53
G176	Kapciunu k., Zilviciø g., 4	9:26
G177	Sieciu k., 2	11:35
G178	Sieciu k., 4	8:43
G179	Sieciu k., 5	8:10
G180	Sieciu k., 10	8:34
G181	Sieciu k., 11	8:34

To be continued on next page...

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Calculated:
2023-01-15 18:17/3.5.584

SHADOW - Main Result

Calculation: real 1 alt SUM

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G182	Sieciu k., 12	8:48
G183	Sieciu k., 13	8:39
G184	Sieciu k., 14	8:49
G185	Augustavo k., 3	19:00
G186	Augustavo k., 4	18:36

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

No.	Name	Expected [h/year]
10	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (226)	12:20
100	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (289)	9:01
102	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (290)	10:41
103	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (291)	10:35
104	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (292)	18:23
106	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (293)	7:08
107	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (294)	13:55
109	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (295)	4:21
11	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (227)	27:15
110	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (296)	3:17
111	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (297)	3:16
113	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (298)	4:17
114	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (299)	12:01
116	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (300)	3:38
117	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (301)	7:54
118	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (302)	9:11
119	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (303)	9:26
12	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (228)	28:36
120	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (304)	21:25
121	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (305)	7:38
13	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (229)	12:22
14	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (230)	17:41
15	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (231)	20:41
17	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (232)	36:25
18	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (233)	8:16
19	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (234)	7:03
2	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (219)	6:30
20	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (235)	6:20
21	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (236)	7:41
22	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (237)	12:50
23	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (238)	17:52
24	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (239)	3:06
25	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (240)	14:33
26	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (241)	21:47
27	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (242)	24:17
28	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (243)	12:53
29	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (244)	35:58
3	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (220)	3:38
30	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (245)	29:07
32	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (246)	4:08
33	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (247)	18:09
34	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (248)	0:28
36	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (249)	0:00
4	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (221)	11:52
40	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (250)	3:16
41	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (251)	4:58
42	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (252)	0:55
43	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (253)	7:23
44	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (254)	20:59
47	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (255)	5:01
5	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (222)	2:38
50	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (256)	13:13
51	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (257)	10:09
52	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (258)	8:54

To be continued on next page...

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SHADOW - Main Result

Calculation: real 1 alt SUM

...continued from previous page

No.	Name	Expected [h/year]
53	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (259)	18:37
54	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (260)	39:38
55	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (261)	24:21
56	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (262)	26:00
6	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (223)	14:56
61	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (263)	0:00
62	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (264)	0:00
63	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (265)	2:04
64	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (266)	0:00
65	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (267)	0:00
66	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (268)	0:04
67	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (269)	3:35
68	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (270)	24:57
69	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (271)	12:25
7	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (224)	3:11
70	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (272)	32:18
71	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (273)	1:53
72	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (274)	16:52
73	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (275)	4:11
74	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (276)	7:14
75	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (277)	1:37
76	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (278)	5:29
77	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (279)	2:27
78	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (280)	1:24
79	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (281)	2:20
8	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (225)	11:51
80	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (282)	17:33
81	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (283)	20:09
82	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (284)	5:00
83	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (285)	0:00
84	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (286)	3:28
85	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (287)	1:29
86	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (288)	14:09
supl01	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (1)	1:53
supl02	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (2)	0:00
supl03	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (3)	0:00
supl04	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (4)	0:00
supl05	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (5)	0:00
supl06	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (6)	0:00
supl07	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (7)	0:00
supl08	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (8)	1:18
supl09	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (9)	1:02
supl10	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (10)	0:00
supl11	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (11)	0:00
supl12	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (12)	18:01
supl13	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (13)	6:29
supl14	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (14)	7:21
supl15	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (15)	0:56

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.

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Planuojamos VE

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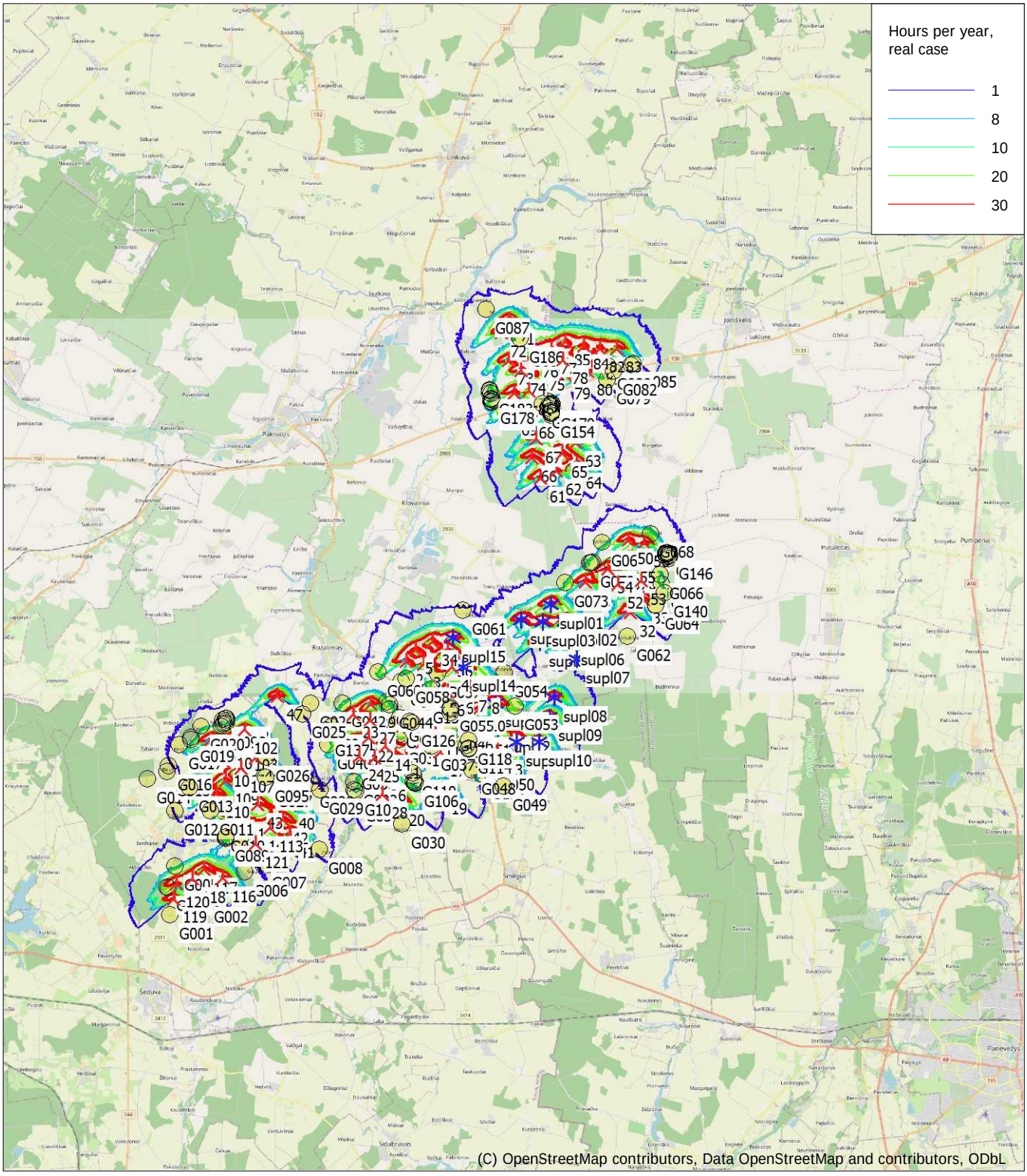
SHADOW - Map

Calculation: real 1 alt SUM



0 2,5 5 7,5 10km

Map: EMD OpenStreetMap , Print scale 1:250 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 499 680 North: 6 197 140

New WTG Existing WTG Shadow receptor

Flicker map level: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (30)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

Šešėliavimo modeliavimo rezultatai (SUMINIS)

Planuojamos VE, 2 alternatyva + suplanuotos VE

Realus scenarijus

Project:

Planuojamos VE

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SHADOW - Main Result

Calculation: real 2 alt SUM

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) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,50	1,10	2,10	3,60	4,60	5,10	4,10	3,70	2,80	1,80	0,50	0,50

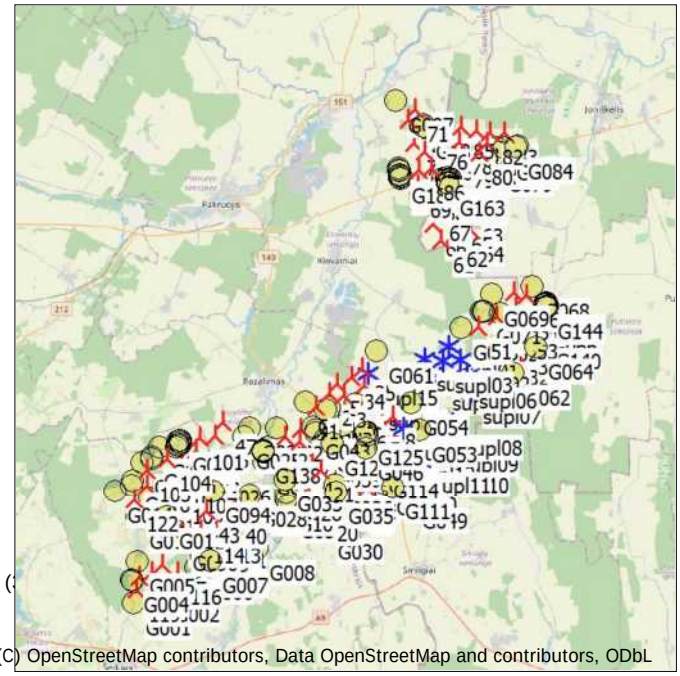
Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
220	210	244	285	296	284	405	479	705	843	872	825

W	WNW	NW	NNW	Sum
594	453	392	252	7 359

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:
Height contours used: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (
Obstacles used in calculation
Receptor grid resolution: 1,0 m

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



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

Scale 1:400 000

New WTG Existing WTG Shadow receptor

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data Calculation distance [m]	RPM [RPM]
1	495 390	6 194 097	63,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
10	499 339	6 192 768	61,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
100	488 194	6 191 149	80,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
101	489 205	6 192 470	76,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
102	488 982	6 191 798	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
103	488 965	6 191 068	78,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
104	487 476	6 191 336	82,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
105	486 343	6 190 728	84,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
106	488 063	6 190 365	82,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
107	488 774	6 190 102	80,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
108	486 368	6 189 932	90,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
109	488 087	6 189 566	83,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
11	497 369	6 191 579	64,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
110	487 703	6 188 978	84,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
111	488 421	6 188 060	82,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
113	490 066	6 187 468	78,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
114	489 221	6 187 494	78,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
116	487 980	6 185 307	88,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
117	487 161	6 185 699	88,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
118	486 652	6 185 248	93,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
119	485 819	6 184 360	92,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
12	499 507	6 191 740	65,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
120	485 934	6 185 058	92,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
121	489 431	6 186 798	81,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
122	485 710	6 189 190	87,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
13	500 115	6 190 809	62,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
14	495 141	6 191 057	67,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
15	496 783	6 191 238	65,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
16	498 090	6 189 790	64,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
17	497 583	6 190 780	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
18	493 716	6 191 249	68,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
19	497 635	6 189 136	66,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
2	496 072	6 194 828	64,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

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SHADOW - Main Result

Calculation: real 2 alt SUM

...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]
20	495 806	6 188 619	67,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
21	495 609	6 190 697	65,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
22	494 421	6 191 419	66,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
23	493 760	6 192 484	66,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
24	494 001	6 190 607	68,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
25	494 709	6 190 521	69,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
26	494 932	6 189 704	66,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
27	494 485	6 192 255	65,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
28	495 029	6 188 944	69,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
29	494 537	6 192 945	66,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
3	496 849	6 194 676	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
30	500 372	6 190 171	64,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
32	505 943	6 196 959	51,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
33	506 501	6 197 500	52,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
34	497 216	6 195 690	62,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
35	497 821	6 196 141	63,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
36	497 918	6 195 220	64,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
4	498 094	6 194 549	63,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
40	490 952	6 188 461	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
41	490 956	6 187 214	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
42	490 653	6 187 850	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
43	489 521	6 188 529	79,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
44	489 437	6 190 532	78,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
46	489 996	6 192 550	75,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
47	490 409	6 193 275	74,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
5	496 494	6 195 320	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
50	505 860	6 200 126	53,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
51	503 975	6 198 287	53,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
52	505 377	6 198 220	53,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
53	506 394	6 198 319	53,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
54	504 944	6 198 838	51,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
55	505 959	6 199 299	51,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
56	506 528	6 199 986	49,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
6	497 904	6 193 492	62,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
61	501 980	6 202 855	53,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
62	502 661	6 203 174	51,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
63	503 539	6 204 406	52,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
64	503 565	6 203 472	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
65	502 954	6 203 915	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
66	501 612	6 203 764	51,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
67	501 790	6 204 579	52,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
68	501 526	6 205 637	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
69	500 755	6 205 769	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
7	498 844	6 193 650	64,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
70	500 821	6 206 587	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
71	500 601	6 209 783	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
72	500 267	6 209 231	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
73	500 586	6 208 007	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
74	501 149	6 207 565	51,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
75	501 930	6 207 730	51,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
76	501 664	6 208 359	50,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
77	502 453	6 208 484	52,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
78	502 973	6 208 028	50,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
79	503 046	6 207 349	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
8	499 435	6 193 560	60,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
80	504 037	6 207 522	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
81	504 430	6 208 007	49,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
82	504 605	6 208 569	50,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
83	505 334	6 208 566	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
84	503 858	6 208 700	52,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
85	503 067	6 208 838	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
86	501 486	6 206 678	50,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
supl01	502 436	6 197 303	56,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl02	503 036	6 196 566	54,9	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0

To be continued on next page...

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Calculated:
2023-01-15 19:53/3.5.584

SHADOW - Main Result

Calculation: real 2 alt SUM

...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]
supl03	502 082	6 196 517	56,6	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl04	501 131	6 196 610	57,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl05	501 940	6 195 622	57,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl06	503 373	6 195 727	55,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl07	503 573	6 194 904	55,1	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl08	502 607	6 193 214	55,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl09	502 370	6 192 359	57,1	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl10	501 932	6 191 233	59,4	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl11	500 931	6 191 239	62,8	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl12	500 094	6 191 851	58,7	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl13	500 032	6 192 948	62,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl14	498 563	6 194 570	62,3	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl15	498 132	6 195 824	62,2	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0

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]
G001	Niauduvos k.	485 653	6 183 651	94,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G002	Bauku k. 7	487 204	6 184 343	91,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G003	Alksniupiu k., Algirdo g. 2B	485 575	6 184 850	93,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G004	Alksniupiu k., Algirdo g. 1A	485 494	6 184 885	93,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G005	Alksniupiu k., Algirdo g. 2A	485 874	6 185 842	93,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G006	Sniukoniu k. 1	488 977	6 185 543	87,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G007	Sniukoniu k. 11	489 711	6 185 892	85,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G008	Raginenu k. 11	492 228	6 186 557	76,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G009	Sliekiu k. 2	488 735	6 186 999	85,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G010	Naujasodzio k., Naujasodzio g. 51A	487 944	6 187 504	90,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G011	Sileikoniu k., Dauksu g. 10	487 471	6 188 215	88,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G012	Sileikoniu k., Sakos g. 8	485 882	6 188 215	90,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G013	Birutes k. 4	486 534	6 189 273	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G014	Radviloniu k., Parko g. 14	484 654	6 189 647	93,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G015	Amalijos k. 5	485 546	6 189 943	90,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G016	Amalijos k. 7	485 593	6 190 214	87,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G017	Zybartu k.	486 093	6 191 136	87,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G018	Krupiskio k. 1	486 619	6 191 381	85,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G019	Krupiskio k. 2	486 627	6 191 441	86,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G020	Lineliu k.	487 041	6 191 957	82,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G021	Maldziunu k. 1	487 940	6 191 965	83,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G022	Maldziunu k. 10	488 171	6 192 124	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G023	Maldziunu k. 14	488 172	6 192 305	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G024	Meldiniu k., Seduvos g. 1	491 860	6 192 984	73,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G025	Meldiniu k., Seduvos g. 5	491 513	6 192 503	75,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G026	Birjagalos k. 7	489 915	6 190 563	81,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G027	Birjagalos k. 12	490 006	6 189 447	79,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G028	Plauciskiu k., Birjagalos g. 17	491 855	6 189 434	77,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G029	Plauciskiu k., Sturiskiu g. 9	492 258	6 189 168	73,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G030	Jasoniu k. 6	495 876	6 187 667	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G031	Gikoniu k. 8	493 884	6 188 801	72,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G032	Gikoniu k. 3	493 787	6 189 489	71,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G033	Simaniskiu k. 4	493 703	6 190 245	72,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G034	Celkiu k. 10	496 464	6 189 430	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G035	Celkiu k. 6	496 402	6 189 549	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G036	Celkiu k. 1	496 357	6 189 951	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G037	Celkiu k.	497 190	6 191 028	64,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G038	Galeliu k. 3	495 743	6 191 361	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G039	Galeliu k. 1	495 816	6 191 558	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G040	Meldiniu k., Seduvos g. 18	492 638	6 191 111	69,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G041	Meldiniu k., Seduvos g. 6	492 814	6 191 939	67,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G042	Simaniskiu k. 3	493 283	6 192 971	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G043	Butnalaukio k. 1	495 207	6 193 029	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G044	Butnalaukio k. 3	495 334	6 192 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G045	Butnalaukio k. 4	495 354	6 192 693	67,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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Calculated:
2023-01-15 19:53/3.5.584

SHADOW - Main Result

Calculation: real 2 alt SUM

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G046	Tarvydu k. 4	497 988	6 191 917	63,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G047	Mediniskiu k. 3	498 537	6 191 168	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G048	Mediniskiu k. 8	498 979	6 190 001	68,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G049	Zvalgu k. 4	500 379	6 189 275	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G050	Mediniskiu k. 11	499 826	6 190 188	63,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G051	Tarvydu k. 1	498 776	6 191 701	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G052	Tarvydu k. 3	498 746	6 191 818	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G053	Tirkslioniu k. 3	500 887	6 192 830	63,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G054	Gacioniu k., Mokyklos g. 1	500 400	6 194 286	61,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G055	Tarvydu k. 13	498 057	6 192 740	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G056	Vaitkunu k. 7	497 149	6 193 578	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G057	Medines vs. 1	497 446	6 194 266	65,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G058	Vaitkunu k. 2	496 074	6 194 052	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G059	Vaitkunu k. 1	495 830	6 193 898	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G060	Banciu k. 12	494 809	6 194 324	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G061	Getautu k. 6	498 558	6 197 039	61,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G062	Sermuksniu k. 1	505 805	6 195 898	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G063	Laukugalio vs. 2	507 053	6 197 207	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G064	Laukugalio vs. 1	507 058	6 197 252	54,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G065	Deglenu k., Parko g. 24	507 315	6 198 201	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G066	Deglenu k., Parko g. 15	507 227	6 198 598	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G067	Deglenu k., Pelkiu g. 2	507 475	6 199 503	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G068	Pagirnupiu k. 1	506 841	6 200 422	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G069	Spilgiu k. 5	504 690	6 200 027	56,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G070	Sitkunu k. 5	505 156	6 199 032	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G071	Sitkunu k. 3	504 266	6 199 133	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G072	Sitkunu k. 1	504 215	6 199 100	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G073	Puodziskiu k. 6	503 046	6 198 254	55,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G074	Sieciu k. 1	499 843	6 206 143	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G075	Sieciu k. 3	499 893	6 206 222	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G076	Kapciunu k., Zilviciu g. 1	502 078	6 206 118	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G077	Kapciunu k., Zilviciu g. 2	502 331	6 206 194	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G078	Kapciunu k., Zilviciu g. 13	502 400	6 205 794	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G079	Nakiskiu k., Liepu g. 1B	504 908	6 207 129	51,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G080	Valdeikiu k., Lauko g. 3A	504 950	6 207 777	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G081	Valdeikiu k., Lauko g. 7	505 021	6 207 503	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G082	Valdeikiu k., Lauko g. 5	505 215	6 207 540	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G083	Valdeikiu k., Lauko g. 3	505 338	6 207 743	50,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G084	Valdeikiu k., Alyvu g. 16	505 983	6 207 824	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G085	Valdeikiu k., Alyvu g. 7	506 039	6 207 854	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G086	Augustavo k. 1	501 184	6 208 813	55,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G087	Lasmenpamusio k., Misko g. 3	499 589	6 210 270	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G088	Naujasodzio k., Naujasodzio g., 56	488 090	6 187 037	92,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G089	Naujasodzio k., Naujasodzio g., 55	488 078	6 187 078	91,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G090	Naujasodzio k., Naujasodzio g., 57	488 123	6 187 080	91,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G091	Naujasodzio k., Naujasodzio g., 59	488 156	6 187 082	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G092	Naujasodzio k., Naujasodzio g., 61	488 232	6 187 100	86,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G093	Birjagalos k., 11	489 966	6 189 496	79,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G094	Birjagalos k., 10	489 912	6 189 587	79,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G095	Birjagalos k., 9	489 857	6 189 674	81,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G096	Birjagalos k., 8	489 822	6 189 716	80,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G097	Maldziunu k., 4	487 973	6 192 023	82,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G098	Maldziunu k., 5	487 966	6 192 059	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G099	Maldziunu k., 9	488 078	6 192 098	83,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G100	Maldziunu k., 8	487 993	6 192 263	83,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G101	Maldziunu k., 11	488 155	6 192 232	80,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G102	Maldziunu k., 13	488 131	6 192 303	81,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G103	Gikoniu k., 7	493 814	6 189 053	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G104	Gikoniu k., 6	493 788	6 189 157	69,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G105	Celkiu k., 12	496 514	6 189 399	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G106	Celkiu k., 8	496 459	6 189 458	69,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G107	Celkiu k., 7	496 424	6 189 478	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G108	Celkiu k., 6A	496 410	6 189 497	70,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G109	Celkiu k., 5	496 426	6 189 755	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G110	Celkiu k., 3	496 359	6 189 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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SHADOW - Main Result

Calculation: real 2 alt SUM

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G111	Mediniskiu k., 13	499 410	6 189 814	67,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G112	Mediniskiu k., 9	499 215	6 190 141	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G113	Mediniskiu k., 7	498 959	6 190 756	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G114	Mediniskiu k., 6	498 829	6 190 916	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G115	Mediniskiu k., 5	498 820	6 190 943	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G116	Mediniskiu k., 4	498 804	6 190 972	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G117	Mediniskiu k., 3A	498 747	6 191 062	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G118	Mediniskiu k., 2	498 812	6 191 293	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G119	Mediniskiu k., 1	498 584	6 191 327	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G120	Tarvydu k., 7A	497 970	6 192 507	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G121	Tarvydu k., 7B	497 974	6 192 537	65,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G122	Tarvydu k., 9	498 031	6 192 552	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G123	Tarvydu k., 8	497 988	6 192 603	66,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G124	Tarvydu k., 11	498 030	6 192 716	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G125	Tarvydu k., 10	497 993	6 192 731	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G126	Zvirbloniu k., Rozalimo g., 6	496 303	6 192 111	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G127	Zvirbloniu k., Rozalimo g., 8	496 269	6 192 136	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G128	Zvirbloniu k., Rozalimo g., 10	496 248	6 192 150	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G129	Zvirbloniu k., Rozalimo g., 12	496 225	6 192 166	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G130	Zvirbloniu k., Rozalimo g., 14	496 198	6 192 176	67,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G131	Zvirbloniu k., Rozalimo g., 3V	495 681	6 192 015	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G132	Zvirbloniu k., Rozalimo g., 7	495 987	6 192 212	69,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G133	Zvirbloniu k., Rozalimo g., 9	495 926	6 192 273	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G134	Zvirbloniu k., Rozalimo g., 11	495 813	6 192 321	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G135	Vaitkunu k., 3	496 802	6 193 104	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G136	Vaitkunu k., 5	496 849	6 193 143	64,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G137	Meldiniu k., Seduvos g., 21	492 526	6 191 703	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G138	Meldiniu k., Seduvos g., 19	492 526	6 191 733	71,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G139	Meldiniu k., Seduvos g., 17	492 528	6 191 794	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G140	Deglenu k., Parko g., 26	507 454	6 197 833	54,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G141	Puodziskiu k., 7	504 154	6 199 097	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G142	Sitkunu k., 2	504 241	6 199 117	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G143	Deglenu k., Parko g., 16	507 628	6 199 335	55,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G144	Deglenu k., Parko g., 7	507 545	6 199 399	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G145	Deglenu k., Parko g., 14	507 645	6 199 387	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G146	Deglenu k., Parko g., 12	507 674	6 199 426	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G147	Deglenu k., Parko g., 10	507 666	6 199 465	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G148	Deglenu k., Pelkiu g., 1	507 615	6 199 514	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G149	Deglenu k., Pelkiu g., 3	507 554	6 199 535	52,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G150	Deglenu k., Pelkiu g., 9	507 493	6 199 553	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G151	Deglenu k., Pelkiu g., 5	507 558	6 199 579	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G152	Deglenu k., Pelkiu g., 7	507 517	6 199 591	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G153	Kapciunu k., Zilviciø g., 23	502 481	6 205 584	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G154	Kapciunu k., Zilviciø g., 21	502 454	6 205 669	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G155	Kapciunu k., Zilviciø g., 18	502 489	6 205 677	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G156	Kapciunu k., Zilviciø g., 19	502 436	6 205 693	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G157	Kapciunu k., Zilviciø g., 16	502 472	6 205 727	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G158	Kapciunu k., Zilviciø g., 17	502 424	6 205 733	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G159	Kapciunu k., Zilviciu g., 15	502 416	6 205 761	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G160	Kapciunu k., Zilviciø g., 14	502 445	6 205 787	53,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G161	Kapciunu k., Zilviciø g., 12	502 422	6 205 838	54,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G162	Kapciunu k., Zilviciu g., 10	502 380	6 205 918	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G163	Kapciunu k., Zilviciu g., 9	502 327	6 205 915	52,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G164	Kapciunu k., Zilviciu g., 7	502 322	6 205 934	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G165	Kapciunu k., Zilviciø g., 8	502 369	6 205 948	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G166	Kapciunu k., Zilviciu g., 5	502 321	6 205 958	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G167	Kapciunu k., Roziu g., 1	502 373	6 206 010	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G168	Kapciunu k., Roziu g., 3	502 397	6 206 025	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G169	Kapciunu k., Roziu g., 5	502 424	6 206 034	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G170	Kapciunu k., Roziu g., 7	502 449	6 206 045	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G171	Kapciunu k., Roziu g., 9	502 469	6 206 051	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G172	Kapciunu k., Roziu g., 11	502 501	6 206 061	55,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G173	Kapciunu k., Roziu g., 13	502 522	6 206 071	55,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G174	Kapciunu k., Roziu g., 4	502 492	6 206 098	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G175	Kapciunu k., Zilviciu g., 6	502 311	6 206 080	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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SHADOW - Main Result

Calculation: real 2 alt SUM

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G176	Kapciunu k., Zilviciø g., 4	502 304	6 206 109	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G177	Sieciu k., 2	499 804	6 206 197	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G178	Sieciu k., 4	499 793	6 206 279	51,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G179	Sieciu k., 5	499 791	6 206 308	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G180	Sieciu k., 10	499 793	6 206 563	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G181	Sieciu k., 11	499 762	6 206 567	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G182	Sieciu k., 12	499 759	6 206 593	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G183	Sieciu k., 13	499 742	6 206 662	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G184	Sieciu k., 14	499 744	6 206 708	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G185	Augustavo k., 3	501 069	6 208 893	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G186	Augustavo k., 4	501 084	6 208 959	51,3	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]
G001	Niauduvos k.	0:00
G002	Bauku k. 7	6:43
G003	Alksniupiu k., Algirdo g. 2B	14:13
G004	Alksniupiu k., Algirdo g. 1A	23:14
G005	Alksniupiu k., Algirdo g. 2A	6:51
G006	Sniukoniu k. 1	3:53
G007	Sniukoniu k. 11	0:47
G008	Raginenu k. 11	4:58
G009	Sliekiu k. 2	8:29
G010	Naujasodzio k., Naujasodzio g. 51A	6:22
G011	Sileikoniu k., Dauksu g. 10	5:35
G012	Sileikoniu k., Sakos g. 8	1:26
G013	Birutes k. 4	11:21
G014	Radviloniu k., Parko g. 14	6:15
G015	Amalijos k. 5	8:42
G016	Amalijos k. 7	8:14
G017	Zybartu k.	11:07
G018	Krupiskio k. 1	11:00
G019	Krupiskio k. 2	9:26
G020	Lineliu k.	6:39
G021	Maldziunu k. 1	13:34
G022	Maldziunu k. 10	14:41
G023	Maldziunu k. 14	10:36
G024	Meldiniu k., Seduvos g. 1	3:16
G025	Meldiniu k., Seduvos g. 5	4:39
G026	Birjagalos k. 7	31:20
G027	Birjagalos k. 12	9:34
G028	Plauciskiu k., Birjagalos g. 17	1:48
G029	Plauciskiu k., Sturiskiu g. 9	1:09
G030	Jasoniu k. 6	0:00
G031	Gikoniu k. 8	3:54
G032	Gikoniu k. 3	4:44
G033	Simaniskiu k. 4	11:44
G034	Celkiu k. 10	8:17
G035	Celkiu k. 6	10:16
G036	Celkiu k. 1	10:29
G037	Celkiu k.	18:18
G038	Galeliu k. 3	23:17
G039	Galeliu k. 1	17:20
G040	Meldiniu k., Seduvos g. 18	5:23
G041	Meldiniu k., Seduvos g. 6	11:16
G042	Simaniskiu k. 3	8:27
G043	Butnalaukio k. 1	11:13
G044	Butnalaukio k. 3	11:23
G045	Butnalaukio k. 4	15:50

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SHADOW - Main Result

Calculation: real 2 alt SUM

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G046	Tarvydu k. 4	12:56
G047	Mediniskiu k. 3	17:24
G048	Mediniskiu k. 8	14:12
G049	Zvalgu k. 4	0:00
G050	Mediniskiu k. 11	15:53
G051	Tarvydu k. 1	12:54
G052	Tarvydu k. 3	10:46
G053	Tirkslioniu k. 3	14:51
G054	Gacioniu k., Mokyklos g. 1	3:52
G055	Tarvydu k. 13	9:32
G056	Vaitkunu k. 7	11:37
G057	Medines vs. 1	22:47
G058	Vaitkunu k. 2	11:01
G059	Vaitkunu k. 1	13:38
G060	Banciu k. 12	13:23
G061	Getautu k. 6	2:47
G062	Sermuksniu k. 1	0:00
G063	Laukugalio vs. 2	12:10
G064	Laukugalio vs. 1	15:05
G065	Deglenu k., Parko g. 24	8:57
G066	Deglenu k., Parko g. 15	11:03
G067	Deglenu k., Pelkiu g. 2	10:52
G068	Pagirnupiu k. 1	11:25
G069	Spilgiu k. 5	5:30
G070	Sitkunu k. 5	51:01
G071	Sitkunu k. 3	13:07
G072	Sitkunu k. 1	12:54
G073	Puodziskiu k. 6	7:46
G074	Sieciu k. 1	13:20
G075	Sieciu k. 3	14:06
G076	Kapciunu k., Zilviciu g. 1	9:28
G077	Kapciunu k., Zilviciu g. 2	11:44
G078	Kapciunu k., Zilviciu g. 13	9:18
G079	Nakiskiu k., Liepu g. 1B	9:35
G080	Valdeikiu k., Lauko g. 3A	15:16
G081	Valdeikiu k., Lauko g. 7	4:34
G082	Valdeikiu k., Lauko g. 5	8:05
G083	Valdeikiu k., Lauko g. 3	12:00
G084	Valdeikiu k., Alyvu g. 16	6:22
G085	Valdeikiu k., Alyvu g. 7	4:59
G086	Augustavo k. 1	20:08
G087	Lasmenpamusio k., Misko g. 3	3:19
G088	Naujasodzio k., Naujasodzio g., 56	8:30
G089	Naujasodzio k., Naujasodzio g., 55	7:49
G090	Naujasodzio k., Naujasodzio g., 57	8:38
G091	Naujasodzio k., Naujasodzio g., 59	9:27
G092	Naujasodzio k., Naujasodzio g., 61	12:10
G093	Birjagalos k., 11	9:35
G094	Birjagalos k., 10	9:32
G095	Birjagalos k., 9	8:20
G096	Birjagalos k., 8	8:11
G097	Maldziunu k., 4	12:09
G098	Maldziunu k., 5	11:28
G099	Maldziunu k., 9	12:51
G100	Maldziunu k., 8	9:08
G101	Maldziunu k., 11	11:36
G102	Maldziunu k., 13	10:10
G103	Gikoniu k., 7	8:00
G104	Gikoniu k., 6	8:26
G105	Celkiu k., 12	8:31
G106	Celkiu k., 8	8:07
G107	Celkiu k., 7	10:54
G108	Celkiu k., 6A	10:56
G109	Celkiu k., 5	8:03

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SHADOW - Main Result

Calculation: real 2 alt SUM

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G110	Celkiu k., 3	9:47
G111	Mediniskiu k., 13	11:07
G112	Mediniskiu k., 9	9:25
G113	Mediniskiu k., 7	9:20
G114	Mediniskiu k., 6	11:30
G115	Mediniskiu k., 5	11:50
G116	Mediniskiu k., 4	12:13
G117	Mediniskiu k., 3A	13:39
G118	Mediniskiu k., 2	14:26
G119	Mediniskiu k., 1	17:30
G120	Tarvydu k., 7A	8:36
G121	Tarvydu k., 7B	8:46
G122	Tarvydu k., 9	8:37
G123	Tarvydu k., 8	9:08
G124	Tarvydu k., 11	9:26
G125	Tarvydu k., 10	9:12
G126	Zvirbloniu k., Rozalimo g., 6	8:50
G127	Zvirbloniu k., Rozalimo g., 8	8:34
G128	Zvirbloniu k., Rozalimo g., 10	8:22
G129	Zvirbloniu k., Rozalimo g., 12	8:15
G130	Zvirbloniu k., Rozalimo g., 14	8:12
G131	Zvirbloniu k., Rozalimo g., 3V	10:20
G132	Zvirbloniu k., Rozalimo g., 7	8:45
G133	Zvirbloniu k., Rozalimo g., 9	8:50
G134	Zvirbloniu k., Rozalimo g., 11	10:01
G135	Vaitkunu k., 3	7:54
G136	Vaitkunu k., 5	8:42
G137	Meldiniu k., Seduvos g., 21	8:26
G138	Meldiniu k., Seduvos g., 19	8:40
G139	Meldiniu k., Seduvos g., 17	9:02
G140	Deglenu k., Parko g., 26	10:28
G141	Puodziskiu k., 7	11:41
G142	Sitkunu k., 2	13:02
G143	Deglenu k., Parko g., 16	8:38
G144	Deglenu k., Parko g., 7	9:23
G145	Deglenu k., Parko g., 14	8:59
G146	Deglenu k., Parko g., 12	8:45
G147	Deglenu k., Parko g., 10	8:31
G148	Deglenu k., Pelkiu g., 1	8:59
G149	Deglenu k., Pelkiu g., 3	10:09
G150	Deglenu k., Pelkiu g., 9	11:08
G151	Deglenu k., Pelkiu g., 5	9:24
G152	Deglenu k., Pelkiu g., 7	10:30
G153	Kapciunu k., Zilviciø g., 23	10:24
G154	Kapciunu k., Zilviciø g., 21	9:49
G155	Kapciunu k., Zilviciø g., 18	9:13
G156	Kapciunu k., Zilviciø g., 19	9:56
G157	Kapciunu k., Zilviciø g., 16	9:05
G158	Kapciunu k., Zilviciø g., 17	9:41
G159	Kapciunu k., Zilviciu g., 15	9:28
G160	Kapciunu k., Zilviciø g., 14	8:50
G161	Kapciunu k., Zilviciø g., 12	8:32
G162	Kapciunu k., Zilviciu g., 10	8:13
G163	Kapciunu k., Zilviciu g., 9	8:53
G164	Kapciunu k., Zilviciu g., 7	8:46
G165	Kapciunu k., Zilviciø g., 8	8:04
G166	Kapciunu k., Zilviciu g., 5	8:33
G167	Kapciunu k., Roziu g., 1	9:05
G168	Kapciunu k., Roziu g., 3	9:47
G169	Kapciunu k., Roziu g., 5	10:16
G170	Kapciunu k., Roziu g., 7	10:41
G171	Kapciunu k., Roziu g., 9	10:54
G172	Kapciunu k., Roziu g., 11	11:09
G173	Kapciunu k., Roziu g., 13	11:16

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SHADOW - Main Result

Calculation: real 2 alt SUM

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
G174	Kapciunu k., Roziu g., 4	11:31
G175	Kapciunu k., Zilviciu g., 6	8:53
G176	Kapciunu k., Zilviciø g., 4	9:26
G177	Sieciu k., 2	11:35
G178	Sieciu k., 4	8:43
G179	Sieciu k., 5	8:10
G180	Sieciu k., 10	8:34
G181	Sieciu k., 11	8:34
G182	Sieciu k., 12	8:48
G183	Sieciu k., 13	8:39
G184	Sieciu k., 14	8:49
G185	Augustavo k., 3	19:00
G186	Augustavo k., 4	18:36

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

No.	Name	Expected [h/year]
1	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (312)	32:40
10	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (226)	12:20
100	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (289)	9:01
101	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (313)	12:20
102	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (290)	10:41
103	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (291)	10:35
104	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (292)	18:23
105	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (310)	18:36
106	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (293)	7:08
107	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (294)	13:55
108	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (309)	11:43
109	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (295)	4:21
11	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (227)	27:15
110	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (296)	3:17
111	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (297)	3:16
113	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (298)	4:17
114	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (299)	12:01
116	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (300)	3:38
117	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (301)	7:54
118	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (302)	9:11
119	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (303)	9:26
12	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (228)	28:36
120	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (304)	21:25
121	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (305)	7:38
122	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (311)	12:04
13	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (229)	12:22
14	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (230)	17:41
15	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (231)	20:41
16	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (306)	17:19
17	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (232)	36:25
18	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (233)	8:16
19	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (234)	7:03
2	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (219)	6:30
20	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (235)	6:20
21	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (236)	7:41
22	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (237)	12:50
23	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (238)	17:52
24	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (239)	3:06
25	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (240)	14:33
26	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (241)	21:47
27	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (242)	24:17
28	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (243)	12:53
29	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (244)	35:58
3	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (220)	3:38
30	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (245)	29:07
32	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (246)	4:08

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SHADOW - Main Result

Calculation: real 2 alt SUM

...continued from previous page

No.	Name	Expected [h/year]
33	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (247)	18:09
34	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (248)	0:28
35	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (307)	1:25
36	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (249)	0:00
4	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (221)	11:52
40	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (250)	3:16
41	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (251)	4:58
42	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (252)	0:55
43	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (253)	7:23
44	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (254)	20:59
46	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (308)	4:44
47	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (255)	5:01
5	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (222)	2:38
50	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (256)	13:13
51	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (257)	10:09
52	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (258)	8:54
53	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (259)	18:37
54	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (260)	39:38
55	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (261)	24:21
56	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (262)	26:00
6	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (223)	14:56
61	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (263)	0:00
62	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (264)	0:00
63	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (265)	2:04
64	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (266)	0:00
65	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (267)	0:00
66	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (268)	0:04
67	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (269)	3:35
68	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (270)	24:57
69	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (271)	12:25
7	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (224)	3:11
70	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (272)	32:18
71	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (273)	1:53
72	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (274)	16:52
73	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (275)	4:11
74	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (276)	7:14
75	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (277)	1:37
76	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (278)	5:29
77	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (279)	2:27
78	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (280)	1:24
79	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (281)	2:20
8	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (225)	11:51
80	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (282)	17:33
81	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (283)	20:09
82	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (284)	5:00
83	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (285)	0:00
84	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (286)	3:28
85	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (287)	1:29
86	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (288)	14:09
supl01	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (1)	1:53
supl02	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (2)	0:00
supl03	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (3)	0:00
supl04	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (4)	0:00
supl05	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (5)	0:00
supl06	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (6)	0:00
supl07	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (7)	0:00
supl08	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (8)	1:18
supl09	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (9)	1:02
supl10	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (10)	0:00
supl11	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (11)	0:00
supl12	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (12)	18:01
supl13	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (13)	6:29
supl14	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (14)	7:21
supl15	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (15)	0:56

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.

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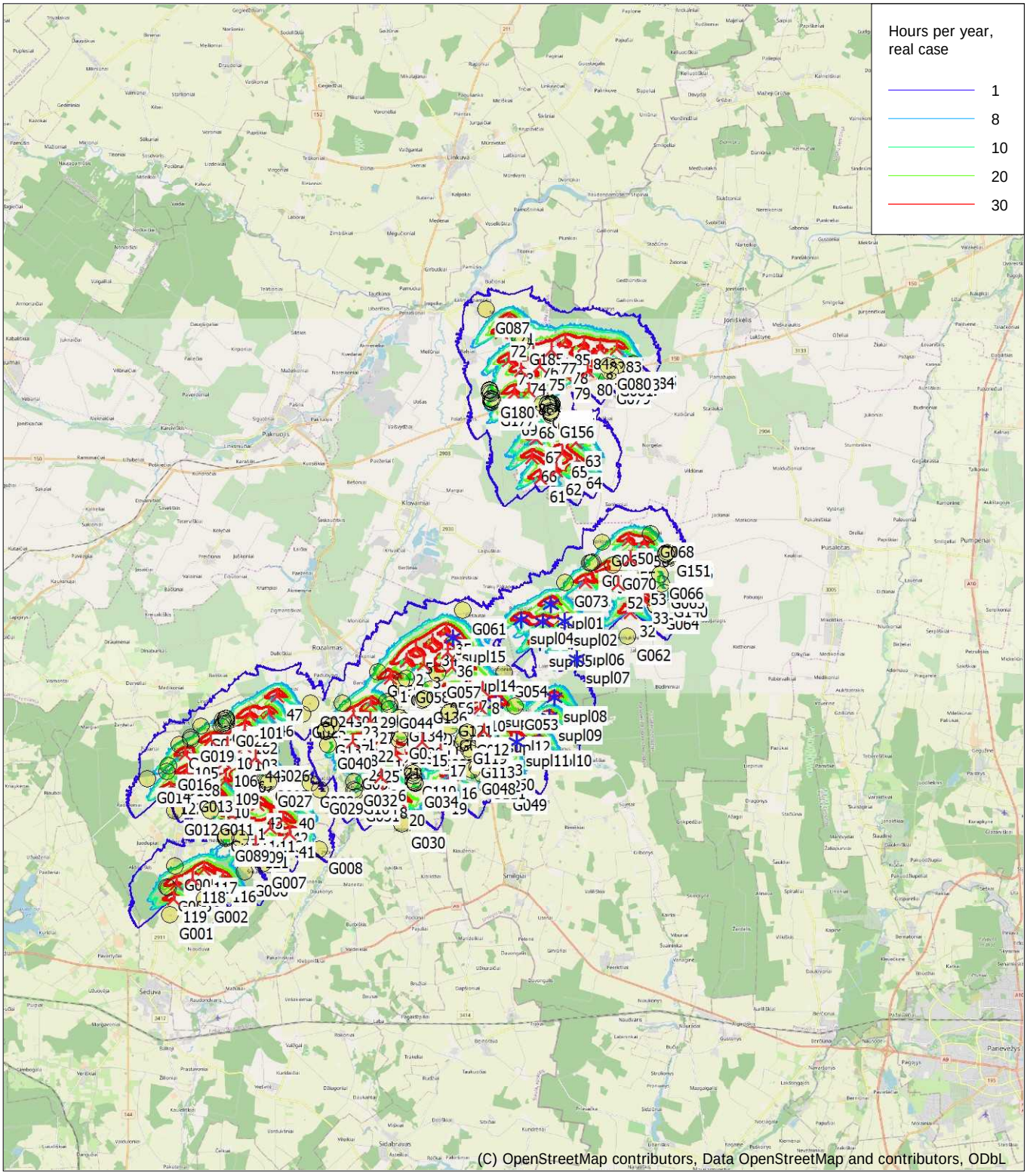
SHADOW - Map

Calculation: real 2 alt SUM



0 2,5 5 7,5 10km

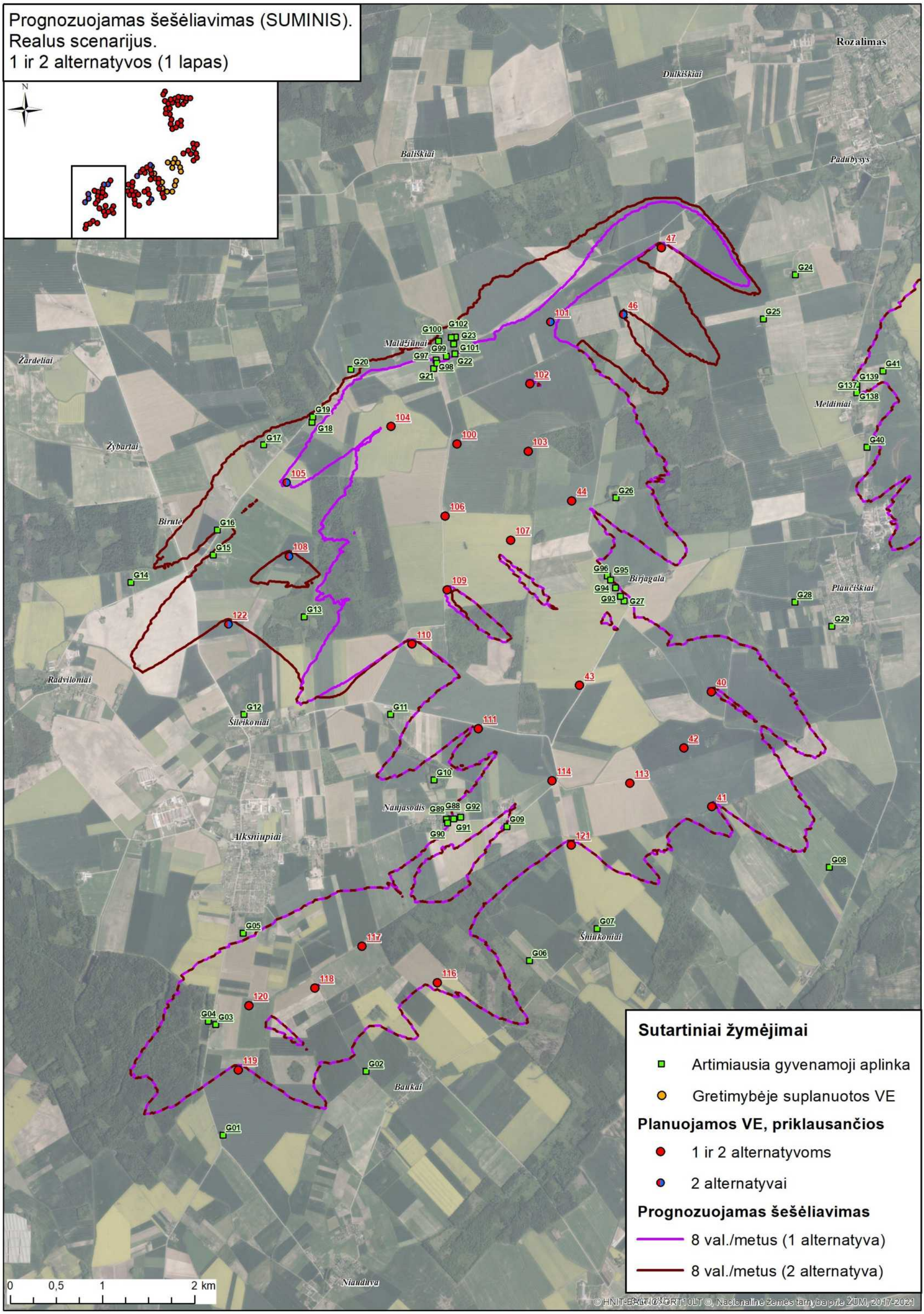
Map: EMD OpenStreetMap , Print scale 1:250 000, Map center Lithuanian TM LKS94-LKS94 (LT) East: 499 680 North: 6 197 140

New WTG Existing WTG Shadow receptor

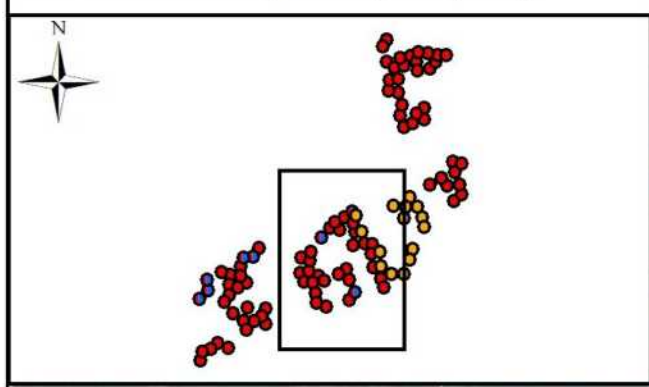
Flicker map level: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (30)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

Prognozuojamas šešėliavimas (SUMINIS).
Realus scenarijus.
1 ir 2 alternatyvos (1 lapas)



Prognozuojamas šešėliavimas (SUMINIS).
Realus scenarijus.
1 ir 2 alternatyvos (2 lapas)



Sutartiniai žymėjimai

- Artimiausia gyvenamoji aplinka
- Gretimybėje suplanuotos VE

Planuojamos VE, priklausančios

- 1 ir 2 alternatyvoms
- 2 alternatyvai

Prognozuojamas šešėliavimas

- 8 val./metus (1 alternatyva)
- 8 val./metus (2 alternatyva)

0 0,5 1 2 km

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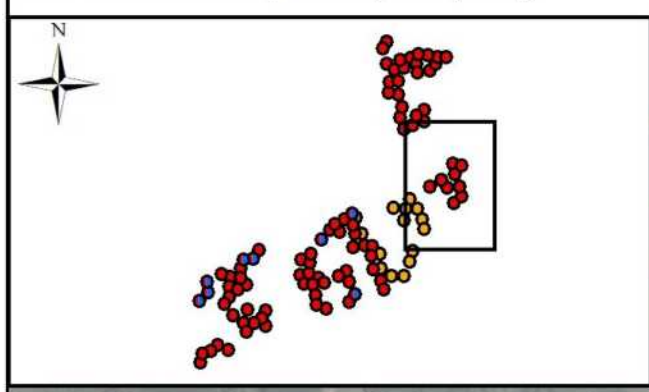
Prognozuojamas šešėliavimas (SUMINIS).
Realus scenarijus.
1 ir 2 alternatyvos (3 lapas)



Vildūnai
Spilgiai
Deglėnai
Laukugalis
Jakūboniai
Laimučiai
Šilai

G68 G69 G151 G150 G152 G149 G148 G67 G147 G146 G144 G145 G143 G141 G71 G72 G142 G70 G66 G73 G65 G140 G64 G63 G62

50 56 55 54 51 52 53 33 32

Sutartiniai žymėjimai

- Artimiausia gyvenamoji aplinka
- Gretimybėje suplanuotos VE

Planuojamos VE, priklausančios

- 1 ir 2 alternatyvoms
- 2 alternatyvai

Prognozuojamas šešėliavimas

- 8 val./metus (1 alternatyva)
- 8 val./metus (2 alternatyva)

0 0,5 1 2 km

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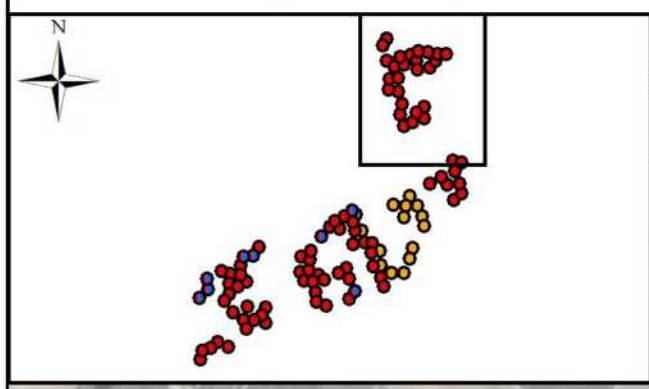
Prognozuojamas šešėliavimas (SUMINIS).
Realus scenarijus.
1 ir 2 alternatyvos (4 lapas)



Plunkiai
Gailioniai
Gailioniai
Stačiūnai
Židoniai
Gedžiūniškiai
Pamūšis
Lašmenpamūšis
Balsiai
Augustavas
Valdeikiai
Nakiškėliai
Nakiškiai
Siečiai
Kapčiūnai
Palašmenis
Katkūnai
Norgėlai
Spilgiai

G87 G186 G185 G86 G85 G84 G80 G83 G81 G82 G79 G180-G184 G179 G178 G177 G75 G74 G76 G77 G153-G176 G78 G69

71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 70 69 68 67 66 65 64 63 62 61

0 0,5 1 2 km

Sutartiniai žymėjimai

- Artimiausia gyvenamoji aplinka
- Gretimybėje suplanuotos VE

Planuojamos VE, priklausančios

- 1 ir 2 alternatyvoms
- 2 alternatyvai

Prognozuojamas šešėliavimas

- 8 val./metus (1 alternatyva)
- 8 val./metus (2 alternatyva)

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Šešėliavimo modeliavimo rezultatai (SUMINIS)

Planuojamos VE, 1 alternatyva + suplanuotos VE

Realus scenarijus (įvertinus šešėliavimo mažinimo priemones)

Project:

Planuojamos VE

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Calculated:
2023-01-15 22:22/3.5.584

SHADOW - Main Result

Calculation: eal 1 alt SUM (shutdown

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) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,50	1,10	2,10	3,60	4,60	5,10	4,10	3,70	2,80	1,80	0,50	0,50

Operational time

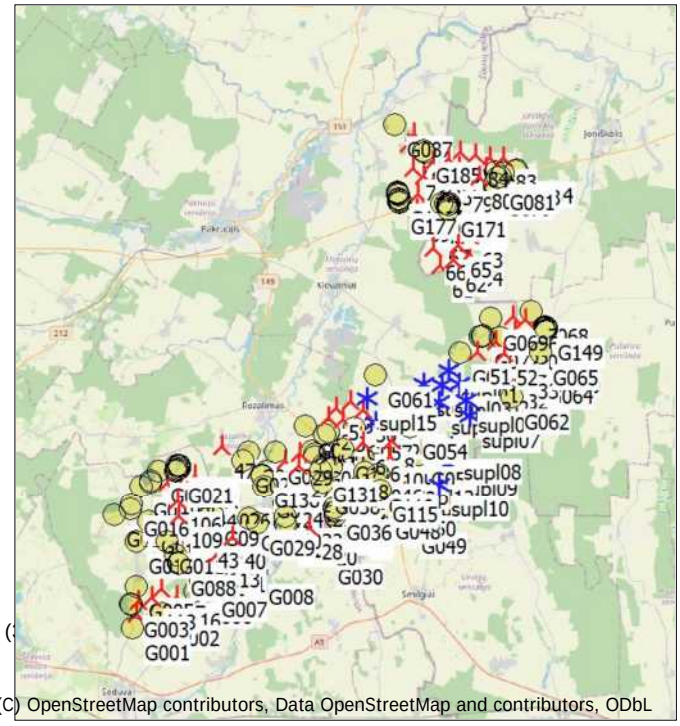
N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
220	210	244	285	296	284	405	479	705	843	872	825

W	WNW	NW	NNW	Sum
594	453	392	252	7 359

Flicker curtailment by stopping specific turbines

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:
Height contours used: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (
Obstacles used in calculation
Receptor grid resolution: 1,0 m

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



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

Scale 1:400 000

New WTG Existing WTG Shadow receptor

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data Calculation distance [m]	RPM [RPM]
10	499 339	6 192 768	61,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
100	488 194	6 191 149	80,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
102	488 982	6 191 798	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
103	488 965	6 191 068	78,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
104	487 476	6 191 336	82,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
106	488 063	6 190 365	82,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
107	488 774	6 190 102	80,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
109	488 087	6 189 566	83,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
11	497 369	6 191 579	64,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
110	487 703	6 188 978	84,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
111	488 421	6 188 060	82,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
113	490 066	6 187 468	78,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
114	489 221	6 187 494	78,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
116	487 980	6 185 307	88,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
117	487 161	6 185 699	88,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
118	486 652	6 185 248	93,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
119	485 819	6 184 360	92,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
12	499 507	6 191 740	65,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
120	485 934	6 185 058	92,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
121	489 431	6 186 798	81,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
13	500 115	6 190 809	62,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
14	495 141	6 191 057	67,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
15	496 783	6 191 238	65,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
17	497 583	6 190 780	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
18	493 716	6 191 249	68,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
19	497 635	6 189 136	66,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
2	496 072	6 194 828	64,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
20	495 806	6 188 619	67,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
21	495 609	6 190 697	65,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
22	494 421	6 191 419	66,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
23	493 760	6 192 484	66,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

To be continued on next page...

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Calculated:
2023-01-15 22:22/3.5.584

SHADOW - Main Result

Calculation: eal 1 alt SUM (shutdown

...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]
24	494 001	6 190 607	68,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
25	494 709	6 190 521	69,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
26	494 932	6 189 704	66,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
27	494 485	6 192 255	65,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
28	495 029	6 188 944	69,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
29	494 537	6 192 945	66,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
3	496 849	6 194 676	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
30	500 372	6 190 171	64,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
32	505 943	6 196 959	51,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
33	506 501	6 197 500	52,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
34	497 216	6 195 690	62,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
36	497 918	6 195 220	64,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
4	498 094	6 194 549	63,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
40	490 952	6 188 461	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
41	490 956	6 187 214	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
42	490 653	6 187 850	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
43	489 521	6 188 529	79,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
44	489 437	6 190 532	78,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
47	490 409	6 193 275	74,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
5	496 494	6 195 320	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
50	505 860	6 200 126	53,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
51	503 975	6 198 287	53,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
52	505 377	6 198 220	53,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
53	506 394	6 198 319	53,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
54	504 944	6 198 838	51,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
55	505 959	6 199 299	51,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
56	506 528	6 199 986	49,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
6	497 904	6 193 492	62,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
61	501 980	6 202 855	53,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
62	502 661	6 203 174	51,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
63	503 539	6 204 406	52,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
64	503 565	6 203 472	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
65	502 954	6 203 915	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
66	501 612	6 203 764	51,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
67	501 790	6 204 579	52,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
68	501 526	6 205 637	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
69	500 755	6 205 769	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
7	498 844	6 193 650	64,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
70	500 821	6 206 587	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
71	500 601	6 209 783	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
72	500 267	6 209 231	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
73	500 586	6 208 007	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
74	501 149	6 207 565	51,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
75	501 930	6 207 730	51,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
76	501 664	6 208 359	50,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
77	502 453	6 208 484	52,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
78	502 973	6 208 028	50,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
79	503 046	6 207 349	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
8	499 435	6 193 560	60,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
80	504 037	6 207 522	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
81	504 430	6 208 007	49,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
82	504 605	6 208 569	50,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
83	505 334	6 208 566	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
84	503 858	6 208 700	52,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
85	503 067	6 208 838	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
86	501 486	6 206 678	50,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
supl01	502 436	6 197 303	56,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl02	503 036	6 196 566	54,9	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl03	502 082	6 196 517	56,6	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl04	501 131	6 196 610	57,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl05	501 940	6 195 622	57,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl06	503 373	6 195 727	55,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl07	503 573	6 194 904	55,1	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl08	502 607	6 193 214	55,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0

To be continued on next page...

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Calculated:
2023-01-15 22:22/3.5.584

SHADOW - Main Result

Calculation: eal 1 alt SUM (shutdown

...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]
supl09	502 370	6 192 359	57,1	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl10	501 932	6 191 233	59,4	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl11	500 931	6 191 239	62,8	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl12	500 094	6 191 851	58,7	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl13	500 032	6 192 948	62,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl14	498 563	6 194 570	62,3	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl15	498 132	6 195 824	62,2	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0

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]
G001	Niauduvos k.	485 653	6 183 651	94,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G002	Bauku k. 7	487 204	6 184 343	91,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G003	Alksniupiu k., Algirdo g. 2B	485 575	6 184 850	93,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G004	Alksniupiu k., Algirdo g. 1A	485 494	6 184 885	93,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G005	Alksniupiu k., Algirdo g. 2A	485 874	6 185 842	93,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G006	Sniukoniu k. 1	488 977	6 185 543	87,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G007	Sniukoniu k. 11	489 711	6 185 892	85,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G008	Raginenu k. 11	492 228	6 186 557	76,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G009	Sliekiu k. 2	488 735	6 186 999	85,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G010	Naujasodzio k., Naujasodzio g. 51A	487 944	6 187 504	90,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G011	Sileikoniu k., Dauksu g. 10	487 471	6 188 215	88,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G012	Sileikoniu k., Sakos g. 8	485 882	6 188 215	90,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G013	Birutes k. 4	486 534	6 189 273	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G014	Radviloniu k., Parko g. 14	484 654	6 189 647	93,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G015	Amalijos k. 5	485 546	6 189 943	90,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G016	Amalijos k. 7	485 593	6 190 214	87,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G017	Zybartu k.	486 093	6 191 136	87,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G018	Krupiskio k. 1	486 619	6 191 381	85,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G019	Krupiskio k. 2	486 627	6 191 441	86,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G020	Lineliu k.	487 041	6 191 957	82,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G021	Maldziunu k. 1	487 940	6 191 965	83,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G022	Maldziunu k. 10	488 171	6 192 124	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G023	Maldziunu k. 14	488 172	6 192 305	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G024	Meldiniu k., Seduvos g. 1	491 860	6 192 984	73,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G025	Meldiniu k., Seduvos g. 5	491 513	6 192 503	75,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G026	Birjagalos k. 7	489 915	6 190 563	81,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G027	Birjagalos k. 12	490 006	6 189 447	79,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G028	Plauciskiu k., Birjagalos g. 17	491 855	6 189 434	77,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G029	Plauciskiu k., Sturiskiu g. 9	492 258	6 189 168	73,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G030	Jasoniu k. 6	495 876	6 187 667	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G031	Gikoniu k. 8	493 884	6 188 801	72,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G032	Gikoniu k. 3	493 787	6 189 489	71,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G033	Simaniskiu k. 4	493 703	6 190 245	72,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G034	Celkiu k. 10	496 464	6 189 430	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G035	Celkiu k. 6	496 402	6 189 549	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G036	Celkiu k. 1	496 357	6 189 951	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G037	Celkiu k.	497 190	6 191 028	64,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G038	Galeliu k. 3	495 743	6 191 361	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G039	Galeliu k. 1	495 816	6 191 558	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G040	Meldiniu k., Seduvos g. 18	492 638	6 191 111	69,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G041	Meldiniu k., Seduvos g. 6	492 814	6 191 939	67,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G042	Simaniskiu k. 3	493 283	6 192 971	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G043	Butnalaukio k. 1	495 207	6 193 029	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G044	Butnalaukio k. 3	495 334	6 192 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G045	Butnalaukio k. 4	495 354	6 192 693	67,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G046	Tarvydu k. 4	497 988	6 191 917	63,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G047	Mediniskiu k. 3	498 537	6 191 168	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G048	Mediniskiu k. 8	498 979	6 190 001	68,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G049	Zvalgu k. 4	500 379	6 189 275	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G050	Mediniskiu k. 11	499 826	6 190 188	63,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G051	Tarvydu k. 1	498 776	6 191 701	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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Calculated:
2023-01-15 22:22/3.5.584

SHADOW - Main Result

Calculation: eal 1 alt SUM (shutdown

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G052	Tarvydu k. 3	498 746	6 191 818	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G053	Tirkslioniu k. 3	500 887	6 192 830	63,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G054	Gacioniu k., Mokyklos g. 1	500 400	6 194 286	61,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G055	Tarvydu k. 13	498 057	6 192 740	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G056	Vaitkunu k. 7	497 149	6 193 578	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G057	Medines vs. 1	497 446	6 194 266	65,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G058	Vaitkunu k. 2	496 074	6 194 052	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G059	Vaitkunu k. 1	495 830	6 193 898	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G060	Banciu k. 12	494 809	6 194 324	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G061	Getautu k. 6	498 558	6 197 039	61,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G062	Sermuksniu k. 1	505 805	6 195 898	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G063	Laukugalio vs. 2	507 053	6 197 207	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G064	Laukugalio vs. 1	507 058	6 197 252	54,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G065	Deglenu k., Parko g. 24	507 315	6 198 201	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G066	Deglenu k., Parko g. 15	507 227	6 198 598	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G067	Deglenu k., Pelkiu g. 2	507 475	6 199 503	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G068	Pagirnupiu k. 1	506 841	6 200 422	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G069	Spilgiu k. 5	504 690	6 200 027	56,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G070	Sitkunu k. 5	505 156	6 199 032	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G071	Sitkunu k. 3	504 266	6 199 133	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G072	Sitkunu k. 1	504 215	6 199 100	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G073	Puodziskiu k. 6	503 046	6 198 254	55,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G074	Sieciu k. 1	499 843	6 206 143	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G075	Sieciu k. 3	499 893	6 206 222	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G076	Kapciunu k., Zilviciu g. 1	502 078	6 206 118	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G077	Kapciunu k., Zilviciu g. 2	502 331	6 206 194	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G078	Kapciunu k., Zilviciu g. 13	502 400	6 205 794	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G079	Nakiskiu k., Liepu g. 1B	504 908	6 207 129	51,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G080	Valdeikiu k., Lauko g. 3A	504 950	6 207 777	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G081	Valdeikiu k., Lauko g. 7	505 021	6 207 503	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G082	Valdeikiu k., Lauko g. 5	505 215	6 207 540	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G083	Valdeikiu k., Lauko g. 3	505 338	6 207 743	50,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G084	Valdeikiu k., Alyvu g. 16	505 983	6 207 824	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G085	Valdeikiu k., Alyvu g. 7	506 039	6 207 854	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G086	Augustavo k. 1	501 184	6 208 813	55,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G087	Lasmenpamusio k., Misko g. 3	499 589	6 210 270	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G088	Naujasodzio k., Naujasodzio g., 56	488 090	6 187 037	92,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G089	Naujasodzio k., Naujasodzio g., 55	488 078	6 187 078	91,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G090	Naujasodzio k., Naujasodzio g., 57	488 123	6 187 080	91,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G091	Naujasodzio k., Naujasodzio g., 59	488 156	6 187 082	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G092	Naujasodzio k., Naujasodzio g., 61	488 232	6 187 100	86,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G093	Birjagalos k., 11	489 966	6 189 496	79,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G094	Birjagalos k., 10	489 912	6 189 587	79,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G095	Birjagalos k., 9	489 857	6 189 674	81,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G096	Birjagalos k., 8	489 822	6 189 716	80,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G097	Maldziunu k., 4	487 973	6 192 023	82,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G098	Maldziunu k., 5	487 966	6 192 059	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G099	Maldziunu k., 9	488 078	6 192 098	83,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G100	Maldziunu k., 8	487 993	6 192 263	83,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G101	Maldziunu k., 11	488 155	6 192 232	80,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G102	Maldziunu k., 13	488 131	6 192 303	81,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G103	Gikoniu k., 7	493 814	6 189 053	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G104	Gikoniu k., 6	493 788	6 189 157	69,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G105	Celkiu k., 12	496 514	6 189 399	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G106	Celkiu k., 8	496 459	6 189 458	69,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G107	Celkiu k., 7	496 424	6 189 478	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G108	Celkiu k., 6A	496 410	6 189 497	70,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G109	Celkiu k., 5	496 426	6 189 755	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G110	Celkiu k., 3	496 359	6 189 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G111	Mediniskiu k., 13	499 410	6 189 814	67,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G112	Mediniskiu k., 9	499 215	6 190 141	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G113	Mediniskiu k., 7	498 959	6 190 756	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G114	Mediniskiu k., 6	498 829	6 190 916	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G115	Mediniskiu k., 5	498 820	6 190 943	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G116	Mediniskiu k., 4	498 804	6 190 972	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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SHADOW - Main Result

Calculation: eal 1 alt SUM (shutdown

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G117	Mediniskiu k., 3A	498 747	6 191 062	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G118	Mediniskiu k., 2	498 812	6 191 293	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G119	Mediniskiu k., 1	498 584	6 191 327	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G120	Tarvydu k., 7A	497 970	6 192 507	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G121	Tarvydu k., 7B	497 974	6 192 537	65,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G122	Tarvydu k., 9	498 031	6 192 552	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G123	Tarvydu k., 8	497 988	6 192 603	66,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G124	Tarvydu k., 11	498 030	6 192 716	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G125	Tarvydu k., 10	497 993	6 192 731	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G126	Zvirbloniu k., Rozalimo g., 6	496 303	6 192 111	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G127	Zvirbloniu k., Rozalimo g., 8	496 269	6 192 136	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G128	Zvirbloniu k., Rozalimo g., 10	496 248	6 192 150	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G129	Zvirbloniu k., Rozalimo g., 12	496 225	6 192 166	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G130	Zvirbloniu k., Rozalimo g., 14	496 198	6 192 176	67,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G131	Zvirbloniu k., Rozalimo g., 3V	495 681	6 192 015	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G132	Zvirbloniu k., Rozalimo g., 7	495 987	6 192 212	69,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G133	Zvirbloniu k., Rozalimo g., 9	495 926	6 192 273	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G134	Zvirbloniu k., Rozalimo g., 11	495 813	6 192 321	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G135	Vaitkunu k., 3	496 802	6 193 104	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G136	Vaitkunu k., 5	496 849	6 193 143	64,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G137	Meldiniu k., Seduvos g., 21	492 526	6 191 703	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G138	Meldiniu k., Seduvos g., 19	492 526	6 191 733	71,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G139	Meldiniu k., Seduvos g., 17	492 528	6 191 794	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G140	Deglenu k., Parko g., 26	507 454	6 197 833	54,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G141	Puodziskiu k., 7	504 154	6 199 097	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G142	Sitkunu k., 2	504 241	6 199 117	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G143	Deglenu k., Parko g., 16	507 628	6 199 335	55,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G144	Deglenu k., Parko g., 7	507 545	6 199 399	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G145	Deglenu k., Parko g., 14	507 645	6 199 387	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G146	Deglenu k., Parko g., 12	507 674	6 199 426	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G147	Deglenu k., Parko g., 10	507 666	6 199 465	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G148	Deglenu k., Pelkiu g., 1	507 615	6 199 514	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G149	Deglenu k., Pelkiu g., 3	507 554	6 199 535	52,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G150	Deglenu k., Pelkiu g., 9	507 493	6 199 553	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G151	Deglenu k., Pelkiu g., 5	507 558	6 199 579	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G152	Deglenu k., Pelkiu g., 7	507 517	6 199 591	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G153	Kapciunu k., Zilviciø g., 23	502 481	6 205 584	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G154	Kapciunu k., Zilviciø g., 21	502 454	6 205 669	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G155	Kapciunu k., Zilviciø g., 18	502 489	6 205 677	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G156	Kapciunu k., Zilviciø g., 19	502 436	6 205 693	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G157	Kapciunu k., Zilviciø g., 16	502 472	6 205 727	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G158	Kapciunu k., Zilviciø g., 17	502 424	6 205 733	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G159	Kapciunu k., Zilviciu g., 15	502 416	6 205 761	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G160	Kapciunu k., Zilviciø g., 14	502 445	6 205 787	53,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G161	Kapciunu k., Zilviciø g., 12	502 422	6 205 838	54,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G162	Kapciunu k., Zilviciu g., 10	502 380	6 205 918	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G163	Kapciunu k., Zilviciu g., 9	502 327	6 205 915	52,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G164	Kapciunu k., Zilviciu g., 7	502 322	6 205 934	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G165	Kapciunu k., Zilviciø g., 8	502 369	6 205 948	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G166	Kapciunu k., Zilviciu g., 5	502 321	6 205 958	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G167	Kapciunu k., Roziu g., 1	502 373	6 206 010	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G168	Kapciunu k., Roziu g., 3	502 397	6 206 025	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G169	Kapciunu k., Roziu g., 5	502 424	6 206 034	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G170	Kapciunu k., Roziu g., 7	502 449	6 206 045	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G171	Kapciunu k., Roziu g., 9	502 469	6 206 051	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G172	Kapciunu k., Roziu g., 11	502 501	6 206 061	55,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G173	Kapciunu k., Roziu g., 13	502 522	6 206 071	55,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G174	Kapciunu k., Roziu g., 4	502 492	6 206 098	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G175	Kapciunu k., Zilviciu g., 6	502 311	6 206 080	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G176	Kapciunu k., Zilviciø g., 4	502 304	6 206 109	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G177	Sieciu k., 2	499 804	6 206 197	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G178	Sieciu k., 4	499 793	6 206 279	51,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G179	Sieciu k., 5	499 791	6 206 308	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G180	Sieciu k., 10	499 793	6 206 563	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G181	Sieciu k., 11	499 762	6 206 567	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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SHADOW - Main Result

Calculation: eal 1 alt SUM (shutdown

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No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G182	Sieciu k., 12	499 759	6 206 593	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G183	Sieciu k., 13	499 742	6 206 662	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G184	Sieciu k., 14	499 744	6 206 708	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G185	Augustavo k., 3	501 069	6 208 893	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G186	Augustavo k., 4	501 084	6 208 959	51,3	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]	Shadow, expected values: Avoided hours per year [h/year]
G001	Niauduvos k.	0:00	
G002	Bauku k. 7	6:43	
G003*	Alksniupiu k., Algirdo g. 2B	2:36	11:41
G004*	Alksniupiu k., Algirdo g. 1A	4:48	18:27
G005	Alksniupiu k., Algirdo g. 2A	6:51	
G006	Sniukoniu k. 1	3:53	
G007	Sniukoniu k. 11	0:47	
G008	Raginenu k. 11	4:58	
G009*	Sliekiu k. 2	3:09	5:21
G010	Naujasodzio k., Naujasodzio g. 51A	6:22	
G011	Sileikoniu k., Dauksu g. 10	3:51	
G012	Sileikoniu k., Sakos g. 8	1:26	
G013	Birutes k. 4	6:19	
G014	Radviloniu k., Parko g. 14	0:00	
G015	Amalijos k. 5	0:00	
G016	Amalijos k. 7	0:00	
G017	Zybartu k.	2:10	
G018	Krupiskio k. 1	6:24	
G019	Krupiskio k. 2	5:37	
G020	Lineliu k.	5:23	
G021*	Maldziunu k. 1	6:08	3:20
G022*	Maldziunu k. 10	6:22	1:47
G023*	Maldziunu k. 14	4:46	1:17
G024	Meldiniu k., Seduvos g. 1	2:32	
G025	Meldiniu k., Seduvos g. 5	3:04	
G026*	Birjagalos k. 7	4:04	27:14
G027*	Birjagalos k. 12	4:05	5:14
G028	Plauciskiu k., Birjagalos g. 17	1:48	
G029	Plauciskiu k., Sturiskiu g. 9	1:09	
G030	Jasoniu k. 6	0:00	
G031	Gikoniu k. 8	3:54	
G032	Gikoniu k. 3	4:44	
G033*	Simaniskiu k. 4	7:00	4:44
G034*	Celkiu k. 10	5:25	1:14
G035*	Celkiu k. 6	5:25	3:21
G036*	Celkiu k. 1	7:16	2:15
G037*	Celkiu k.	6:11	11:05
G038*	Galeliu k. 3	7:07	16:09
G039*	Galeliu k. 1	7:08	10:10
G040	Meldiniu k., Seduvos g. 18	5:23	
G041*	Meldiniu k., Seduvos g. 6	6:45	4:37
G042*	Simaniskiu k. 3	4:04	4:23
G043*	Butnalaukio k. 1	3:18	7:45
G044*	Butnalaukio k. 3	4:13	6:59
G045*	Butnalaukio k. 4	5:07	10:26
G046*	Tarvydu k. 4	3:08	9:46
G047*	Mediniskiu k. 3	5:29	11:27
G048*	Mediniskiu k. 8	6:26	4:05
G049	Zvalgu k. 4	0:00	
G050*	Mediniskiu k. 11	0:00	15:00
G051*	Tarvydu k. 1	5:42	7:12

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SHADOW - Main Result

Calculation: eal 1 alt SUM (shutdown

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No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G052*	Tarvydu k. 3	4:59	5:44
G053*	Tirkslioniu k. 3	5:46	8:52
G054	Gacioniu k., Mokyklos g. 1	3:52	
G055*	Tarvydu k. 13	2:49	6:40
G056*	Vaitkunu k. 7	4:29	5:54
G057*	Medines vs. 1	6:44	16:03
G058	Vaitkunu k. 2	1:13	
G059	Vaitkunu k. 1	2:52	
G060	Banciu k. 12	6:32	
G061	Getautu k. 6	1:24	
G062	Sermuksniu k. 1	0:00	
G063*	Laukugalio vs. 2	5:00	7:09
G064*	Laukugalio vs. 1	4:23	10:40
G065*	Deglenu k., Parko g. 24	3:49	5:02
G066*	Deglenu k., Parko g. 15	6:00	4:50
G067*	Deglenu k., Pelkiu g. 2	3:53	6:52
G068*	Pagirnupiu k. 1	3:59	7:25
G069	Spilgiu k. 5	5:30	
G070*	Sitkunu k. 5	5:48	45:12
G071*	Sitkunu k. 3	4:48	8:08
G072*	Sitkunu k. 1	5:00	7:45
G073	Puodziskiu k. 6	7:46	
G074*	Sieciu k. 1	5:00	8:23
G075*	Sieciu k. 3	5:04	9:07
G076*	Kapciunu k., Zilviciu g. 1	4:49	4:32
G077*	Kapciunu k., Zilviciu g. 2	3:07	8:36
G078*	Kapciunu k., Zilviciu g. 13	5:18	3:59
G079*	Nakiskiu k., Liepu g. 1B	0:59	8:35
G080*	Valdeikiu k., Lauko g. 3A	4:30	10:42
G081	Valdeikiu k., Lauko g. 7	4:34	
G082*	Valdeikiu k., Lauko g. 5	2:39	5:24
G083*	Valdeikiu k., Lauko g. 3	5:06	6:53
G084	Valdeikiu k., Alyvu g. 16	6:22	
G085	Valdeikiu k., Alyvu g. 7	4:59	
G086*	Augustavo k. 1	6:49	13:05
G087	Lasmenpamusio k., Misko g. 3	3:19	
G088*	Naujasodzio k., Naujasodzio g., 56	3:13	5:17
G089*	Naujasodzio k., Naujasodzio g., 55	3:08	4:41
G090*	Naujasodzio k., Naujasodzio g., 57	2:53	5:44
G091*	Naujasodzio k., Naujasodzio g., 59	2:54	6:33
G092*	Naujasodzio k., Naujasodzio g., 61	2:44	9:24
G093*	Birjagalos k., 11	3:46	5:34
G094*	Birjagalos k., 10	4:27	4:56
G095*	Birjagalos k., 9	3:59	4:15
G096*	Birjagalos k., 8	3:46	4:20
G097*	Maldziunu k., 4	5:38	2:49
G098*	Maldziunu k., 5	5:14	2:44
G099*	Maldziunu k., 9	5:36	2:01
G100*	Maldziunu k., 8	5:02	0:54
G101*	Maldziunu k., 11	5:13	1:23
G102*	Maldziunu k., 13	4:36	1:24
G103*	Gikoniu k., 7	2:08	5:54
G104*	Gikoniu k., 6	1:49	6:39
G105*	Celkiu k., 12	5:47	0:57
G106*	Celkiu k., 8	4:59	1:32
G107*	Celkiu k., 7	6:08	3:13
G108*	Celkiu k., 6A	6:02	3:24
G109*	Celkiu k., 5	6:23	0:25
G110*	Celkiu k., 3	6:28	2:17
G111*	Mediniskiu k., 13	0:40	8:28
G112*	Mediniskiu k., 9	6:15	1:05
G113*	Mediniskiu k., 7	5:09	2:55
G114*	Mediniskiu k., 6	7:22	2:31
G115*	Mediniskiu k., 5	7:18	2:57

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SHADOW - Main Result

Calculation: eal 1 alt SUM (shutdown

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No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G116*	Mediniskiu k., 4	7:12	3:32
G117*	Mediniskiu k., 3A	7:26	5:00
G118*	Mediniskiu k., 2	6:54	6:57
G119*	Mediniskiu k., 1	7:50	9:36
G120*	Tarvydu k., 7A	5:40	2:52
G121*	Tarvydu k., 7B	5:23	3:20
G122*	Tarvydu k., 9	5:24	3:09
G123*	Tarvydu k., 8	4:35	4:29
G124*	Tarvydu k., 11	2:51	6:32
G125*	Tarvydu k., 10	3:09	5:58
G126*	Zvirbloniu k., Rozalimo g., 6	4:41	4:08
G127*	Zvirbloniu k., Rozalimo g., 8	4:29	4:05
G128*	Zvirbloniu k., Rozalimo g., 10	4:17	4:04
G129*	Zvirbloniu k., Rozalimo g., 12	4:04	4:09
G130*	Zvirbloniu k., Rozalimo g., 14	3:55	4:16
G131*	Zvirbloniu k., Rozalimo g., 3V	7:49	2:26
G132*	Zvirbloniu k., Rozalimo g., 7	4:23	4:17
G133*	Zvirbloniu k., Rozalimo g., 9	4:01	4:43
G134*	Zvirbloniu k., Rozalimo g., 11	4:17	5:36
G135	Vaitkunu k., 3	5:05	
G136	Vaitkunu k., 5	5:20	
G137*	Meldiniu k., Seduvos g., 21	3:46	4:45
G138*	Meldiniu k., Seduvos g., 19	3:40	5:05
G139*	Meldiniu k., Seduvos g., 17	3:28	5:40
G140*	Deglenu k., Parko g., 26	3:35	6:47
G141*	Puodziskiu k., 7	5:06	6:27
G142*	Sitkunu k., 2	4:54	7:58
G143*	Deglenu k., Parko g., 16	3:26	5:07
G144*	Deglenu k., Parko g., 7	3:41	5:36
G145*	Deglenu k., Parko g., 14	3:12	5:42
G146*	Deglenu k., Parko g., 12	3:00	5:41
G147*	Deglenu k., Parko g., 10	2:56	5:30
G148*	Deglenu k., Pelkiu g., 1	3:05	5:49
G149*	Deglenu k., Pelkiu g., 3	3:22	6:41
G150*	Deglenu k., Pelkiu g., 9	3:41	7:19
G151*	Deglenu k., Pelkiu g., 5	3:16	6:02
G152*	Deglenu k., Pelkiu g., 7	3:29	6:54
G153*	Kapciunu k., Zilviciø g., 23	6:37	3:44
G154*	Kapciunu k., Zilviciø g., 21	5:49	3:59
G155*	Kapciunu k., Zilviciø g., 18	5:31	3:40
G156*	Kapciunu k., Zilviciø g., 19	5:47	4:08
G157*	Kapciunu k., Zilviciø g., 16	5:22	3:42
G158*	Kapciunu k., Zilviciø g., 17	5:33	4:07
G159*	Kapciunu k., Zilviciu g., 15	5:25	4:02
G160*	Kapciunu k., Zilviciø g., 14	5:11	3:38
G161*	Kapciunu k., Zilviciø g., 12	4:59	3:33
G162*	Kapciunu k., Zilviciu g., 10	4:43	3:31
G163*	Kapciunu k., Zilviciu g., 9	4:56	3:58
G164*	Kapciunu k., Zilviciu g., 7	4:52	3:56
G165*	Kapciunu k., Zilviciø g., 8	4:35	3:30
G166*	Kapciunu k., Zilviciu g., 5	4:45	3:50
G167*	Kapciunu k., Roziu g., 1	5:37	3:29
G168*	Kapciunu k., Roziu g., 3	5:44	4:04
G169*	Kapciunu k., Roziu g., 5	5:36	4:40
G170*	Kapciunu k., Roziu g., 7	5:20	5:21
G171*	Kapciunu k., Roziu g., 9	5:05	5:49
G172*	Kapciunu k., Roziu g., 11	4:36	6:31
G173*	Kapciunu k., Roziu g., 13	4:11	7:03
G174*	Kapciunu k., Roziu g., 4	3:57	7:33
G175*	Kapciunu k., Zilviciu g., 6	4:42	4:09
G176*	Kapciunu k., Zilviciø g., 4	4:32	4:52
G177*	Sieciu k., 2	4:31	7:08
G178*	Sieciu k., 4	4:05	4:40
G179*	Sieciu k., 5	3:58	4:14

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SHADOW - Main Result

Calculation: eal 1 alt SUM (shutdown

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G180*	Sieciu k., 10	5:37	2:56
G181*	Sieciu k., 11	5:51	2:43
G182*	Sieciu k., 12	6:05	2:42
G183*	Sieciu k., 13	6:06	2:33
G184*	Sieciu k., 14	6:16	2:33
G185*	Augustavo k., 3	5:55	12:48
G186*	Augustavo k., 4	5:25	12:57

* Receptors where shadow flicker is reduced by curtailment

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

No.	Name	Stopped due to flicker curtailment [h/year]	Expected [h/year]
10	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (226)	71:56	2:23
100	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (289)		9:01
102	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (290)		10:41
103	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (291)	50:17	3:46
104	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (292)	99:12	13:31
106	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (293)		7:08
107	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (294)	89:59	1:48
109	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (295)		4:21
11	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (227)	83:43	17:59
110	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (296)		3:17
111	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (297)		3:16
113	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (298)		4:17
114	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (299)	60:55	3:00
116	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (300)		3:38
117	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (301)		7:54
118	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (302)	38:33	3:36
119	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (303)	117:16	3:24
12	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (228)	184:12	3:09
120	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (304)	91:28	7:35
121	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (305)	51:37	2:17
13	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (229)	59:48	5:49
14	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (230)	93:58	8:45
15	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (231)	103:26	15:11
17	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (232)	180:40	17:37
18	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (233)		8:16
19	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (234)		7:03
2	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (219)	20:50	3:45
20	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (235)		6:20
21	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (236)	103:02	3:33
22	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (237)		12:50
23	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (238)	122:24	4:53
24	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (239)		3:06
25	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (240)	66:45	5:25
26	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (241)	96:18	8:14
27	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (242)	96:57	11:41
28	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (243)		12:53
29	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (244)	224:17	6:52
3	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (220)		3:38
30	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (245)	169:55	5:37
32	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (246)		4:08
33	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (247)	87:37	6:15
34	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (248)		0:28
36	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (249)		0:00
4	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (221)	78:35	0:00
40	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (250)		3:16
41	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (251)		4:58
42	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (252)		0:55
43	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (253)		7:23
44	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (254)	151:35	0:35
47	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (255)		5:01
5	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (222)		2:38

To be continued on next page...

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Calculated:
2023-01-15 22:22/3.5.584

SHADOW - Main Result

Calculation: eal 1 alt SUM (shutdown

...continued from previous page

No.	Name	Stopped due to flicker curtailment [h/year]	Expected [h/year]
50	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (256)	23:48	9:37
51	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (257)		10:09
52	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (258)	71:12	6:23
53	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (259)	90:12	6:47
54	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (260)	321:01	1:50
55	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (261)	117:13	7:50
56	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (262)	209:12	4:19
6	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (223)	118:32	6:36
61	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (263)		0:00
62	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (264)		0:00
63	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (265)		2:04
64	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (266)		0:00
65	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (267)		0:00
66	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (268)		0:04
67	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (269)		3:35
68	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (270)	221:28	2:15
69	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (271)		12:25
7	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (224)		3:11
70	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (272)	159:32	10:26
71	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (273)		1:53
72	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (274)	114:23	1:26
73	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (275)		4:11
74	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (276)		7:14
75	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (277)		1:37
76	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (278)	68:18	0:39
77	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (279)		2:27
78	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (280)		1:24
79	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (281)		2:20
8	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (225)	52:26	4:22
80	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (282)	63:53	8:57
81	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (283)	136:31	1:51
82	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (284)		5:00
83	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (285)		0:00
84	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (286)		3:28
85	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (287)		1:29
86	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (288)	45:31	8:03
supl01	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (1)		1:53
supl02	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (2)		0:00
supl03	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (3)		0:00
supl04	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (4)		0:00
supl05	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (5)		0:00
supl06	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (6)		0:00
supl07	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (7)		0:00
supl08	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (8)		1:18
supl09	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (9)		1:02
supl10	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (10)		0:00
supl11	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (11)		0:00
supl12	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (12)		18:01
supl13	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (13)	47:15	0:26
supl14	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (14)		7:21
supl15	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (15)		0:56

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.

Šešėliavimo modeliavimo rezultatai (SUMINIS)

Planuojamos VE, 2 alternatyva + suplanuotos VE

Realus scenarijus (įvertinus šešėliavimo mažinimo priemones)

Project:

Planuojamos VE

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Calculated:
2023-01-15 22:43/3.5.584

SHADOW - Main Result

Calculation: real 2 alt SUM (shutdown)

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) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,50	1,10	2,10	3,60	4,60	5,10	4,10	3,70	2,80	1,80	0,50	0,50

Operational time

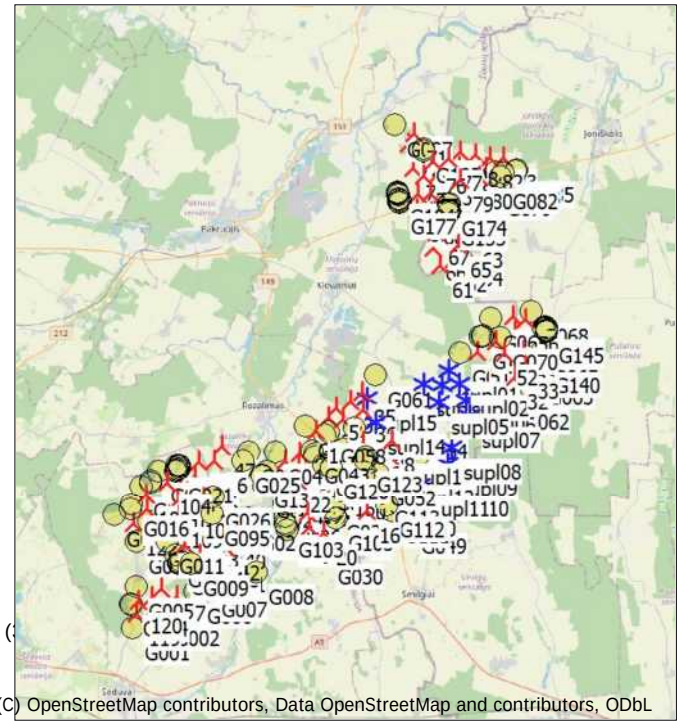
N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
220	210	244	285	296	284	405	479	705	843	872	825

W	WNW	NW	NNW	Sum
594	453	392	252	7 359

Flicker curtailment by stopping specific turbines

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:
Height contours used: Elevation Grid Data Object: Vestas01_EMDGrid_0.wpg (
Obstacles used in calculation
Receptor grid resolution: 1,0 m

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



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

Scale 1:400 000

New WTG Existing WTG Shadow receptor

WTGs

	Y	X	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data Calculation distance [m]	RPM [RPM]
1	495 390	6 194 097	63,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
10	499 339	6 192 768	61,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
100	488 194	6 191 149	80,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
101	489 205	6 192 470	76,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
102	488 982	6 191 798	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
103	488 965	6 191 068	78,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
104	487 476	6 191 336	82,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
105	486 343	6 190 728	84,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
106	488 063	6 190 365	82,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
107	488 774	6 190 102	80,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
108	486 368	6 189 932	90,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
109	488 087	6 189 566	83,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
11	497 369	6 191 579	64,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
110	487 703	6 188 978	84,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
111	488 421	6 188 060	82,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
113	490 066	6 187 468	78,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
114	489 221	6 187 494	78,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
116	487 980	6 185 307	88,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
117	487 161	6 185 699	88,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
118	486 652	6 185 248	93,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
119	485 819	6 184 360	92,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
12	499 507	6 191 740	65,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
120	485 934	6 185 058	92,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
121	489 431	6 186 798	81,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
122	485 710	6 189 190	87,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
13	500 115	6 190 809	62,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
14	495 141	6 191 057	67,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
15	496 783	6 191 238	65,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
16	498 090	6 189 790	64,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
17	497 583	6 190 780	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
18	493 716	6 191 249	68,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

To be continued on next page...

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Calculated:
2023-01-15 22:43/3.5.584

SHADOW - Main Result

Calculation: real 2 alt SUM (shutdown)

...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]
19	497 635	6 189 136	66,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
2	496 072	6 194 828	64,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
20	495 806	6 188 619	67,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
21	495 609	6 190 697	65,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
22	494 421	6 191 419	66,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
23	493 760	6 192 484	66,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
24	494 001	6 190 607	68,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
25	494 709	6 190 521	69,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
26	494 932	6 189 704	66,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
27	494 485	6 192 255	65,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
28	495 029	6 188 944	69,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
29	494 537	6 192 945	66,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
3	496 849	6 194 676	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
30	500 372	6 190 171	64,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
32	505 943	6 196 959	51,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
33	506 501	6 197 500	52,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
34	497 216	6 195 690	62,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
35	497 821	6 196 141	63,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
36	497 918	6 195 220	64,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
4	498 094	6 194 549	63,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
40	490 952	6 188 461	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
41	490 956	6 187 214	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
42	490 653	6 187 850	77,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
43	489 521	6 188 529	79,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
44	489 437	6 190 532	78,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
46	489 996	6 192 550	75,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
47	490 409	6 193 275	74,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
5	496 494	6 195 320	63,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
50	505 860	6 200 126	53,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
51	503 975	6 198 287	53,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
52	505 377	6 198 220	53,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
53	506 394	6 198 319	53,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
54	504 944	6 198 838	51,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
55	505 959	6 199 299	51,4	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
56	506 528	6 199 986	49,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
6	497 904	6 193 492	62,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
61	501 980	6 202 855	53,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
62	502 661	6 203 174	51,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
63	503 539	6 204 406	52,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
64	503 565	6 203 472	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
65	502 954	6 203 915	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
66	501 612	6 203 764	51,5	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
67	501 790	6 204 579	52,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
68	501 526	6 205 637	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
69	500 755	6 205 769	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
7	498 844	6 193 650	64,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
70	500 821	6 206 587	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
71	500 601	6 209 783	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
72	500 267	6 209 231	50,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
73	500 586	6 208 007	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
74	501 149	6 207 565	51,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
75	501 930	6 207 730	51,2	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
76	501 664	6 208 359	50,6	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
77	502 453	6 208 484	52,3	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
78	502 973	6 208 028	50,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
79	503 046	6 207 349	52,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
8	499 435	6 193 560	60,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
80	504 037	6 207 522	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
81	504 430	6 208 007	49,9	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
82	504 605	6 208 569	50,1	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
83	505 334	6 208 566	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
84	503 858	6 208 700	52,8	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
85	503 067	6 208 838	51,0	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0
86	501 486	6 206 678	50,7	VE model VE model 8000 180.0 !...	Yes	VE model	VE model-8 000	8 000	180,0	170,0	2 037	0,0

To be continued on next page...

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SHADOW - Main Result

Calculation: real 2 alt SUM (shutdown)

...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]
supl01	502 436	6 197 303	56,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl02	503 036	6 196 566	54,9	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl03	502 082	6 196 517	56,6	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl04	501 131	6 196 610	57,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl05	501 940	6 195 622	57,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl06	503 373	6 195 727	55,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl07	503 573	6 194 904	55,1	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl08	502 607	6 193 214	55,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl09	502 370	6 192 359	57,1	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl10	501 932	6 191 233	59,4	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl11	500 931	6 191 239	62,8	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl12	500 094	6 191 851	58,7	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl13	500 032	6 192 948	62,0	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl14	498 563	6 194 570	62,3	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0
supl15	498 132	6 195 824	62,2	VE model 8000 180.0 !O! hub: 1...	Yes	VE model	-8 000	8 000	180,0	169,0	1 815	0,0

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]
G001	Niauduvos k.	485 653	6 183 651	94,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G002	Bauku k. 7	487 204	6 184 343	91,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G003	Alksniupiu k., Algirdo g. 2B	485 575	6 184 850	93,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G004	Alksniupiu k., Algirdo g. 1A	485 494	6 184 885	93,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G005	Alksniupiu k., Algirdo g. 2A	485 874	6 185 842	93,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G006	Sniukoniu k. 1	488 977	6 185 543	87,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G007	Sniukoniu k. 11	489 711	6 185 892	85,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G008	Raginenu k. 11	492 228	6 186 557	76,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G009	Sliekiu k. 2	488 735	6 186 999	85,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G010	Naujasodzio k., Naujasodzio g. 51A	487 944	6 187 504	90,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G011	Sileikoniu k., Dauksu g. 10	487 471	6 188 215	88,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G012	Sileikoniu k., Sakos g. 8	485 882	6 188 215	90,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G013	Birutes k. 4	486 534	6 189 273	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G014	Radviloniu k., Parko g. 14	484 654	6 189 647	93,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G015	Amalijos k. 5	485 546	6 189 943	90,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G016	Amalijos k. 7	485 593	6 190 214	87,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G017	Zybartu k.	486 093	6 191 136	87,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G018	Krupiskio k. 1	486 619	6 191 381	85,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G019	Krupiskio k. 2	486 627	6 191 441	86,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G020	Lineliu k.	487 041	6 191 957	82,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G021	Maldziunu k. 1	487 940	6 191 965	83,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G022	Maldziunu k. 10	488 171	6 192 124	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G023	Maldziunu k. 14	488 172	6 192 305	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G024	Meldiniu k., Seduvos g. 1	491 860	6 192 984	73,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G025	Meldiniu k., Seduvos g. 5	491 513	6 192 503	75,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G026	Birjagalos k. 7	489 915	6 190 563	81,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G027	Birjagalos k. 12	490 006	6 189 447	79,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G028	Plauciskiu k., Birjagalos g. 17	491 855	6 189 434	77,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G029	Plauciskiu k., Sturiskiu g. 9	492 258	6 189 168	73,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G030	Jasoniu k. 6	495 876	6 187 667	69,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G031	Gikoniu k. 8	493 884	6 188 801	72,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G032	Gikoniu k. 3	493 787	6 189 489	71,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G033	Simaniskiu k. 4	493 703	6 190 245	72,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G034	Celkiu k. 10	496 464	6 189 430	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G035	Celkiu k. 6	496 402	6 189 549	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G036	Celkiu k. 1	496 357	6 189 951	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G037	Celkiu k.	497 190	6 191 028	64,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G038	Galeliu k. 3	495 743	6 191 361	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G039	Galeliu k. 1	495 816	6 191 558	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G040	Meldiniu k., Seduvos g. 18	492 638	6 191 111	69,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G041	Meldiniu k., Seduvos g. 6	492 814	6 191 939	67,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G042	Simaniskiu k. 3	493 283	6 192 971	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G043	Butnalaukio k. 1	495 207	6 193 029	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0

To be continued on next page...

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SHADOW - Main Result

Calculation: real 2 alt SUM (shutdown)

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G044	Butnalaukio k. 3	495 334	6 192 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G045	Butnalaukio k. 4	495 354	6 192 693	67,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G046	Tarvydu k. 4	497 988	6 191 917	63,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G047	Mediniskiu k. 3	498 537	6 191 168	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G048	Mediniskiu k. 8	498 979	6 190 001	68,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G049	Zvalgu k. 4	500 379	6 189 275	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G050	Mediniskiu k. 11	499 826	6 190 188	63,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G051	Tarvydu k. 1	498 776	6 191 701	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G052	Tarvydu k. 3	498 746	6 191 818	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G053	Tirkslioniu k. 3	500 887	6 192 830	63,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G054	Gacioniu k., Mokyklos g. 1	500 400	6 194 286	61,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G055	Tarvydu k. 13	498 057	6 192 740	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G056	Vaitkunu k. 7	497 149	6 193 578	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G057	Medines vs. 1	497 446	6 194 266	65,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G058	Vaitkunu k. 2	496 074	6 194 052	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G059	Vaitkunu k. 1	495 830	6 193 898	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G060	Banciu k. 12	494 809	6 194 324	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G061	Getautu k. 6	498 558	6 197 039	61,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G062	Sermuksniu k. 1	505 805	6 195 898	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G063	Laukugalio vs. 2	507 053	6 197 207	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G064	Laukugalio vs. 1	507 058	6 197 252	54,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G065	Deglenu k., Parko g. 24	507 315	6 198 201	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G066	Deglenu k., Parko g. 15	507 227	6 198 598	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G067	Deglenu k., Pelkiu g. 2	507 475	6 199 503	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G068	Pagirnupiu k. 1	506 841	6 200 422	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G069	Spilgiu k. 5	504 690	6 200 027	56,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G070	Sitkunu k. 5	505 156	6 199 032	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G071	Sitkunu k. 3	504 266	6 199 133	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G072	Sitkunu k. 1	504 215	6 199 100	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G073	Puodziskiu k. 6	503 046	6 198 254	55,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G074	Sieciu k. 1	499 843	6 206 143	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G075	Sieciu k. 3	499 893	6 206 222	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G076	Kapciunu k., Zilviciu g. 1	502 078	6 206 118	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G077	Kapciunu k., Zilviciu g. 2	502 331	6 206 194	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G078	Kapciunu k., Zilviciu g. 13	502 400	6 205 794	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G079	Nakiskiu k., Liepu g. 1B	504 908	6 207 129	51,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G080	Valdeikiu k., Lauko g. 3A	504 950	6 207 777	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G081	Valdeikiu k., Lauko g. 7	505 021	6 207 503	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G082	Valdeikiu k., Lauko g. 5	505 215	6 207 540	51,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G083	Valdeikiu k., Lauko g. 3	505 338	6 207 743	50,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G084	Valdeikiu k., Alyvu g. 16	505 983	6 207 824	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G085	Valdeikiu k., Alyvu g. 7	506 039	6 207 854	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G086	Augustavo k. 1	501 184	6 208 813	55,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G087	Lasmenpamusio k., Misko g. 3	499 589	6 210 270	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G088	Naujasodzio k., Naujasodzio g., 56	488 090	6 187 037	92,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G089	Naujasodzio k., Naujasodzio g., 55	488 078	6 187 078	91,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G090	Naujasodzio k., Naujasodzio g., 57	488 123	6 187 080	91,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G091	Naujasodzio k., Naujasodzio g., 59	488 156	6 187 082	89,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G092	Naujasodzio k., Naujasodzio g., 61	488 232	6 187 100	86,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G093	Birjagalos k., 11	489 966	6 189 496	79,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G094	Birjagalos k., 10	489 912	6 189 587	79,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G095	Birjagalos k., 9	489 857	6 189 674	81,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G096	Birjagalos k., 8	489 822	6 189 716	80,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G097	Maldziunu k., 4	487 973	6 192 023	82,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G098	Maldziunu k., 5	487 966	6 192 059	82,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G099	Maldziunu k., 9	488 078	6 192 098	83,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G100	Maldziunu k., 8	487 993	6 192 263	83,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G101	Maldziunu k., 11	488 155	6 192 232	80,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G102	Maldziunu k., 13	488 131	6 192 303	81,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G103	Gikoniu k., 7	493 814	6 189 053	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G104	Gikoniu k., 6	493 788	6 189 157	69,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G105	Celkiu k., 12	496 514	6 189 399	68,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G106	Celkiu k., 8	496 459	6 189 458	69,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G107	Celkiu k., 7	496 424	6 189 478	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G108	Celkiu k., 6A	496 410	6 189 497	70,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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Calculated:
2023-01-15 22:43/3.5.584

SHADOW - Main Result

Calculation: real 2 alt SUM (shutdown)

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G109	Celkiu k., 5	496 426	6 189 755	70,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G110	Celkiu k., 3	496 359	6 189 868	68,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G111	Mediniskiu k., 13	499 410	6 189 814	67,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G112	Mediniskiu k., 9	499 215	6 190 141	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G113	Mediniskiu k., 7	498 959	6 190 756	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G114	Mediniskiu k., 6	498 829	6 190 916	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G115	Mediniskiu k., 5	498 820	6 190 943	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G116	Mediniskiu k., 4	498 804	6 190 972	67,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G117	Mediniskiu k., 3A	498 747	6 191 062	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G118	Mediniskiu k., 2	498 812	6 191 293	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G119	Mediniskiu k., 1	498 584	6 191 327	63,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G120	Tarvydu k., 7A	497 970	6 192 507	66,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G121	Tarvydu k., 7B	497 974	6 192 537	65,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G122	Tarvydu k., 9	498 031	6 192 552	65,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G123	Tarvydu k., 8	497 988	6 192 603	66,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G124	Tarvydu k., 11	498 030	6 192 716	66,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G125	Tarvydu k., 10	497 993	6 192 731	65,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G126	Zvirbloniu k., Rozalimo g., 6	496 303	6 192 111	66,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G127	Zvirbloniu k., Rozalimo g., 8	496 269	6 192 136	66,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G128	Zvirbloniu k., Rozalimo g., 10	496 248	6 192 150	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G129	Zvirbloniu k., Rozalimo g., 12	496 225	6 192 166	67,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G130	Zvirbloniu k., Rozalimo g., 14	496 198	6 192 176	67,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G131	Zvirbloniu k., Rozalimo g., 3V	495 681	6 192 015	66,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G132	Zvirbloniu k., Rozalimo g., 7	495 987	6 192 212	69,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G133	Zvirbloniu k., Rozalimo g., 9	495 926	6 192 273	68,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G134	Zvirbloniu k., Rozalimo g., 11	495 813	6 192 321	68,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G135	Vaitkunu k., 3	496 802	6 193 104	65,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G136	Vaitkunu k., 5	496 849	6 193 143	64,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G137	Meldiniu k., Seduvos g., 21	492 526	6 191 703	70,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G138	Meldiniu k., Seduvos g., 19	492 526	6 191 733	71,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G139	Meldiniu k., Seduvos g., 17	492 528	6 191 794	70,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G140	Deglenu k., Parko g., 26	507 454	6 197 833	54,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G141	Puodziskiu k., 7	504 154	6 199 097	54,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G142	Sitkunu k., 2	504 241	6 199 117	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G143	Deglenu k., Parko g., 16	507 628	6 199 335	55,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G144	Deglenu k., Parko g., 7	507 545	6 199 399	54,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G145	Deglenu k., Parko g., 14	507 645	6 199 387	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G146	Deglenu k., Parko g., 12	507 674	6 199 426	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G147	Deglenu k., Parko g., 10	507 666	6 199 465	53,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G148	Deglenu k., Pelkiu g., 1	507 615	6 199 514	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G149	Deglenu k., Pelkiu g., 3	507 554	6 199 535	52,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G150	Deglenu k., Pelkiu g., 9	507 493	6 199 553	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G151	Deglenu k., Pelkiu g., 5	507 558	6 199 579	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G152	Deglenu k., Pelkiu g., 7	507 517	6 199 591	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G153	Kapciunu k., Zilviciø g., 23	502 481	6 205 584	53,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G154	Kapciunu k., Zilviciø g., 21	502 454	6 205 669	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G155	Kapciunu k., Zilviciø g., 18	502 489	6 205 677	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G156	Kapciunu k., Zilviciø g., 19	502 436	6 205 693	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G157	Kapciunu k., Zilviciø g., 16	502 472	6 205 727	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G158	Kapciunu k., Zilviciø g., 17	502 424	6 205 733	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G159	Kapciunu k., Zilviciu g., 15	502 416	6 205 761	53,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G160	Kapciunu k., Zilviciø g., 14	502 445	6 205 787	53,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G161	Kapciunu k., Zilviciø g., 12	502 422	6 205 838	54,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G162	Kapciunu k., Zilviciu g., 10	502 380	6 205 918	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G163	Kapciunu k., Zilviciu g., 9	502 327	6 205 915	52,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G164	Kapciunu k., Zilviciu g., 7	502 322	6 205 934	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G165	Kapciunu k., Zilviciø g., 8	502 369	6 205 948	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G166	Kapciunu k., Zilviciu g., 5	502 321	6 205 958	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G167	Kapciunu k., Roziu g., 1	502 373	6 206 010	53,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G168	Kapciunu k., Roziu g., 3	502 397	6 206 025	54,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G169	Kapciunu k., Roziu g., 5	502 424	6 206 034	54,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G170	Kapciunu k., Roziu g., 7	502 449	6 206 045	55,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G171	Kapciunu k., Roziu g., 9	502 469	6 206 051	55,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G172	Kapciunu k., Roziu g., 11	502 501	6 206 061	55,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G173	Kapciunu k., Roziu g., 13	502 522	6 206 071	55,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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SHADOW - Main Result

Calculation: real 2 alt SUM (shutdown)

...continued from previous page

No.	Name	Y	X	Z [m]	Width [m]	Height [m]	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
G174	Kapciunu k., Roziu g., 4	502 492	6 206 098	55,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G175	Kapciunu k., Zilviciu g., 6	502 311	6 206 080	53,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G176	Kapciunu k., Zilviciø g., 4	502 304	6 206 109	53,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G177	Sieciu k., 2	499 804	6 206 197	51,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G178	Sieciu k., 4	499 793	6 206 279	51,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G179	Sieciu k., 5	499 791	6 206 308	52,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G180	Sieciu k., 10	499 793	6 206 563	52,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G181	Sieciu k., 11	499 762	6 206 567	52,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G182	Sieciu k., 12	499 759	6 206 593	53,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G183	Sieciu k., 13	499 742	6 206 662	53,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G184	Sieciu k., 14	499 744	6 206 708	51,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G185	Augustavo k., 3	501 069	6 208 893	52,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G186	Augustavo k., 4	501 084	6 208 959	51,3	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]	Avoided hours per year [h/year]
G001	Niauduvos k.	0:00	
G002	Bauku k. 7	6:43	
G003*	Alksniupiu k., Algirdo g. 2B	2:36	11:41
G004*	Alksniupiu k., Algirdo g. 1A	4:48	18:27
G005	Alksniupiu k., Algirdo g. 2A	6:51	
G006	Sniukoniu k. 1	3:53	
G007	Sniukoniu k. 11	0:47	
G008	Raginenu k. 11	4:58	
G009*	Sliekiu k. 2	3:09	5:21
G010	Naujasodzio k., Naujasodzio g. 51A	6:22	
G011	Sileikoniu k., Dauksu g. 10	5:35	
G012	Sileikoniu k., Sakos g. 8	1:26	
G013*	Birutes k. 4	6:19	5:01
G014	Radviloniu k., Parko g. 14	6:15	
G015*	Amalijos k. 5	5:44	2:56
G016*	Amalijos k. 7	6:52	1:19
G017*	Zybartu k.	2:56	8:11
G018*	Krupiskio k. 1	6:24	4:19
G019*	Krupiskio k. 2	5:37	3:33
G020*	Lineliu k.	6:27	0:12
G021*	Maldziunu k. 1	6:34	7:04
G022*	Maldziunu k. 10	7:30	7:19
G023*	Maldziunu k. 14	5:27	5:10
G024	Meldiniu k., Seduvos g. 1	3:16	
G025	Meldiniu k., Seduvos g. 5	4:39	
G026*	Birjagalos k. 7	4:04	27:14
G027*	Birjagalos k. 12	4:05	5:14
G028	Plauciskiu k., Birjagalos g. 17	1:48	
G029	Plauciskiu k., Sturiskiu g. 9	1:09	
G030	Jasoniu k. 6	0:00	
G031	Gikoniu k. 8	3:54	
G032	Gikoniu k. 3	4:44	
G033*	Simaniskiu k. 4	7:00	4:44
G034*	Celkiu k. 10	6:33	1:41
G035*	Celkiu k. 6	6:48	3:21
G036*	Celkiu k. 1	7:25	3:02
G037*	Celkiu k.	7:12	11:05
G038*	Galeliu k. 3	7:07	16:09
G039*	Galeliu k. 1	7:08	10:10
G040	Meldiniu k., Seduvos g. 18	5:23	
G041*	Meldiniu k., Seduvos g. 6	6:45	4:37
G042*	Simaniskiu k. 3	4:04	4:23
G043*	Butnalaukio k. 1	3:18	7:45

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SHADOW - Main Result

Calculation: real 2 alt SUM (shutdown)

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G044*	Butnalaukio k. 3	4:13	6:59
G045*	Butnalaukio k. 4	5:07	10:26
G046*	Tarvydu k. 4	3:08	9:46
G047*	Mediniskiu k. 3	5:23	12:00
G048*	Mediniskiu k. 8	6:12	7:58
G049	Zvalgu k. 4	0:00	
G050*	Mediniskiu k. 11	0:52	15:00
G051*	Tarvydu k. 1	5:42	7:12
G052*	Tarvydu k. 3	4:59	5:44
G053*	Tirkslioniu k. 3	5:46	8:52
G054	Gacioniu k., Mokyklos g. 1	3:52	
G055*	Tarvydu k. 13	2:49	6:40
G056*	Vaitkunu k. 7	5:44	5:54
G057*	Medines vs. 1	6:44	16:03
G058*	Vaitkunu k. 2	1:13	9:46
G059*	Vaitkunu k. 1	2:52	10:39
G060*	Banciu k. 12	6:32	6:54
G061	Getautu k. 6	2:47	
G062	Sermuksniu k. 1	0:00	
G063*	Laukugalio vs. 2	5:00	7:09
G064*	Laukugalio vs. 1	4:23	10:40
G065*	Deglenu k., Parko g. 24	3:49	5:02
G066*	Deglenu k., Parko g. 15	7:22	3:41
G067*	Deglenu k., Pelkiu g. 2	3:53	6:52
G068*	Pagirnupiu k. 1	3:59	7:25
G069	Spilgiu k. 5	5:30	
G070*	Sitkunu k. 5	5:48	45:12
G071*	Sitkunu k. 3	4:48	8:08
G072*	Sitkunu k. 1	5:00	7:45
G073	Puodziskiu k. 6	7:46	
G074*	Sieciu k. 1	5:00	8:23
G075*	Sieciu k. 3	5:04	9:07
G076*	Kapciunu k., Zilviciu g. 1	4:49	4:32
G077*	Kapciunu k., Zilviciu g. 2	3:07	8:36
G078*	Kapciunu k., Zilviciu g. 13	5:18	3:59
G079*	Nakiskiu k., Liepu g. 1B	0:59	8:35
G080*	Valdeikiu k., Lauko g. 3A	4:30	10:42
G081	Valdeikiu k., Lauko g. 7	4:34	
G082*	Valdeikiu k., Lauko g. 5	2:39	5:24
G083*	Valdeikiu k., Lauko g. 3	5:06	6:53
G084	Valdeikiu k., Alyvu g. 16	6:22	
G085	Valdeikiu k., Alyvu g. 7	4:59	
G086*	Augustavo k. 1	6:49	13:05
G087	Lasmenpamusio k., Misko g. 3	3:19	
G088*	Naujasodzio k., Naujasodzio g., 56	3:13	5:17
G089*	Naujasodzio k., Naujasodzio g., 55	3:08	4:41
G090*	Naujasodzio k., Naujasodzio g., 57	2:53	5:44
G091*	Naujasodzio k., Naujasodzio g., 59	2:54	6:33
G092*	Naujasodzio k., Naujasodzio g., 61	2:44	9:24
G093*	Birjagalos k., 11	3:46	5:34
G094*	Birjagalos k., 10	4:27	4:56
G095*	Birjagalos k., 9	3:59	4:15
G096*	Birjagalos k., 8	3:46	4:20
G097*	Maldziunu k., 4	5:41	6:31
G098*	Maldziunu k., 5	5:22	6:08
G099*	Maldziunu k., 9	6:36	6:19
G100*	Maldziunu k., 8	4:50	4:17
G101*	Maldziunu k., 11	6:49	4:48
G102*	Maldziunu k., 13	5:14	4:57
G103*	Gikoniu k., 7	2:08	5:54
G104*	Gikoniu k., 6	1:49	6:39
G105*	Celkiu k., 12	6:53	1:35
G106*	Celkiu k., 8	6:24	1:40
G107*	Celkiu k., 7	7:36	3:13

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SHADOW - Main Result

Calculation: real 2 alt SUM (shutdown)

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G108*	Celkiu k., 6A	7:26	3:24
G109*	Celkiu k., 5	6:29	1:33
G110*	Celkiu k., 3	7:28	2:17
G111*	Mediniskiu k., 13	2:40	8:28
G112*	Mediniskiu k., 9	4:29	4:56
G113*	Mediniskiu k., 7	6:21	2:58
G114*	Mediniskiu k., 6	7:03	4:24
G115*	Mediniskiu k., 5	7:11	4:35
G116*	Mediniskiu k., 4	7:20	4:50
G117*	Mediniskiu k., 3A	7:51	5:45
G118*	Mediniskiu k., 2	7:29	6:57
G119*	Mediniskiu k., 1	7:54	9:36
G120*	Tarvydu k., 7A	5:40	2:52
G121*	Tarvydu k., 7B	5:23	3:20
G122*	Tarvydu k., 9	5:24	3:09
G123*	Tarvydu k., 8	4:35	4:29
G124*	Tarvydu k., 11	2:51	6:32
G125*	Tarvydu k., 10	3:09	5:58
G126*	Zvirbloniu k., Rozalimo g., 6	4:41	4:08
G127*	Zvirbloniu k., Rozalimo g., 8	4:29	4:05
G128*	Zvirbloniu k., Rozalimo g., 10	4:17	4:04
G129*	Zvirbloniu k., Rozalimo g., 12	4:04	4:09
G130*	Zvirbloniu k., Rozalimo g., 14	3:55	4:16
G131*	Zvirbloniu k., Rozalimo g., 3V	7:49	2:26
G132*	Zvirbloniu k., Rozalimo g., 7	4:23	4:17
G133*	Zvirbloniu k., Rozalimo g., 9	4:01	4:43
G134*	Zvirbloniu k., Rozalimo g., 11	4:17	5:36
G135*	Vaitkunu k., 3	3:40	4:15
G136*	Vaitkunu k., 5	3:22	5:18
G137*	Meldiniu k., Seduvos g., 21	3:46	4:45
G138*	Meldiniu k., Seduvos g., 19	3:40	5:05
G139*	Meldiniu k., Seduvos g., 17	3:28	5:40
G140*	Deglenu k., Parko g., 26	3:35	6:47
G141*	Puodziskiu k., 7	5:06	6:27
G142*	Sitkunu k., 2	4:54	7:58
G143*	Deglenu k., Parko g., 16	3:26	5:07
G144*	Deglenu k., Parko g., 7	3:41	5:36
G145*	Deglenu k., Parko g., 14	3:12	5:42
G146*	Deglenu k., Parko g., 12	3:00	5:41
G147*	Deglenu k., Parko g., 10	2:56	5:30
G148*	Deglenu k., Pelkiu g., 1	3:05	5:49
G149*	Deglenu k., Pelkiu g., 3	3:22	6:41
G150*	Deglenu k., Pelkiu g., 9	3:41	7:19
G151*	Deglenu k., Pelkiu g., 5	3:16	6:02
G152*	Deglenu k., Pelkiu g., 7	3:29	6:54
G153*	Kapciunu k., Zilviciø g., 23	6:37	3:44
G154*	Kapciunu k., Zilviciø g., 21	5:49	3:59
G155*	Kapciunu k., Zilviciø g., 18	5:31	3:40
G156*	Kapciunu k., Zilviciø g., 19	5:47	4:08
G157*	Kapciunu k., Zilviciø g., 16	5:22	3:42
G158*	Kapciunu k., Zilviciø g., 17	5:33	4:07
G159*	Kapciunu k., Zilviciu g., 15	5:25	4:02
G160*	Kapciunu k., Zilviciø g., 14	5:11	3:38
G161*	Kapciunu k., Zilviciø g., 12	4:59	3:33
G162*	Kapciunu k., Zilviciu g., 10	4:43	3:31
G163*	Kapciunu k., Zilviciu g., 9	4:56	3:58
G164*	Kapciunu k., Zilviciu g., 7	4:52	3:56
G165*	Kapciunu k., Zilviciø g., 8	4:35	3:30
G166*	Kapciunu k., Zilviciu g., 5	4:45	3:50
G167*	Kapciunu k., Roziu g., 1	5:37	3:29
G168*	Kapciunu k., Roziu g., 3	5:44	4:04
G169*	Kapciunu k., Roziu g., 5	5:36	4:40
G170*	Kapciunu k., Roziu g., 7	5:20	5:21
G171*	Kapciunu k., Roziu g., 9	5:05	5:49

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SHADOW - Main Result

Calculation: real 2 alt SUM (shutdown)

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]	Avoided hours per year [h/year]
G172*	Kapciunu k., Roziu g., 11	4:36	6:31
G173*	Kapciunu k., Roziu g., 13	4:11	7:03
G174*	Kapciunu k., Roziu g., 4	3:57	7:33
G175*	Kapciunu k., Zilviciu g., 6	4:42	4:09
G176*	Kapciunu k., Zilviciø g., 4	4:32	4:52
G177*	Sieciu k., 2	4:31	7:08
G178*	Sieciu k., 4	4:05	4:40
G179*	Sieciu k., 5	3:58	4:14
G180*	Sieciu k., 10	5:37	2:56
G181*	Sieciu k., 11	5:51	2:43
G182*	Sieciu k., 12	6:05	2:42
G183*	Sieciu k., 13	6:06	2:33
G184*	Sieciu k., 14	6:16	2:33
G185*	Augustavo k., 3	5:55	12:48
G186*	Augustavo k., 4	5:25	12:57

* Receptors where shadow flicker is reduced by curtailment

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

No.	Name	Stopped due to flicker curtailment [h/year]	Expected [h/year]
1	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (312)	219:24	5:18
10	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (226)	71:56	2:23
100	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (289)		9:01
101	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (313)	80:53	1:09
102	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (290)		10:41
103	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (291)	50:17	3:46
104	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (292)	138:56	12:00
105	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (310)	229:41	5:53
106	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (293)		7:08
107	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (294)	89:59	1:48
108	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (309)		11:43
109	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (295)		4:21
11	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (227)	83:43	17:59
110	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (296)		3:17
111	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (297)		3:16
113	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (298)		4:17
114	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (299)	60:55	3:00
116	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (300)		3:38
117	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (301)		7:54
118	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (302)	38:33	3:36
119	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (303)	117:16	3:24
12	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (228)	184:12	3:09
120	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (304)	91:28	7:35
121	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (305)	51:37	2:17
122	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (311)	137:18	3:35
13	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (229)	89:06	1:39
14	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (230)	93:58	8:45
15	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (231)	103:26	15:11
16	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (306)		17:19
17	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (232)	200:01	15:29
18	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (233)		8:16
19	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (234)		7:03
2	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (219)	20:50	3:45
20	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (235)		6:20
21	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (236)	103:02	3:33
22	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (237)		12:50
23	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (238)	122:24	4:53
24	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (239)		3:06
25	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (240)	66:45	5:25
26	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (241)	118:31	5:40
27	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (242)	96:57	11:41
28	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (243)		12:53
29	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (244)	224:17	6:52

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SHADOW - Main Result

Calculation: real 2 alt SUM (shutdown)

...continued from previous page

No.	Name	Stopped due to flicker curtailment [h/year]	Expected [h/year]
3	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (220)		3:38
30	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (245)	183:59	3:52
32	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (246)		4:08
33	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (247)	87:37	6:15
34	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (248)		0:28
35	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (307)		1:25
36	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (249)		0:00
4	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (221)	78:35	0:00
40	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (250)		3:16
41	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (251)		4:58
42	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (252)		0:55
43	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (253)		7:23
44	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (254)	151:35	0:35
46	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (308)		4:44
47	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (255)		5:01
5	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (222)		2:38
50	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (256)	23:48	9:37
51	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (257)		10:09
52	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (258)	71:12	6:23
53	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (259)	125:51	3:06
54	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (260)	321:01	1:50
55	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (261)	80:44	12:40
56	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (262)	209:12	4:19
6	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (223)	155:25	1:17
61	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (263)		0:00
62	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (264)		0:00
63	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (265)		2:04
64	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (266)		0:00
65	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (267)		0:00
66	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (268)		0:04
67	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (269)		3:35
68	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (270)	221:28	2:15
69	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (271)		12:25
7	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (224)		3:11
70	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (272)	159:32	10:26
71	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (273)		1:53
72	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (274)	114:23	1:26
73	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (275)		4:11
74	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (276)		7:14
75	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (277)		1:37
76	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (278)	68:18	0:39
77	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (279)		2:27
78	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (280)		1:24
79	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (281)		2:20
8	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (225)	52:26	4:22
80	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (282)	63:53	8:57
81	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (283)	136:31	1:51
82	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (284)		5:00
83	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (285)		0:00
84	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (286)		3:28
85	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (287)		1:29
86	VE model VE model 8000 180.0 !O! hub: 170,0 m (TOT: 260,0 m) (288)	45:31	8:03
supl01	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (1)		1:53
supl02	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (2)		0:00
supl03	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (3)		0:00
supl04	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (4)		0:00
supl05	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (5)		0:00
supl06	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (6)		0:00
supl07	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (7)		0:00
supl08	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (8)		1:18
supl09	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (9)		1:02
supl10	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (10)		0:00
supl11	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (11)		0:00
supl12	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (12)		18:01
supl13	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (13)	47:15	0:26
supl14	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (14)		7:21
supl15	VE model 8000 180.0 !O! hub: 169,0 m (TOT: 259,0 m) (15)		0:56

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SHADOW - Main Result

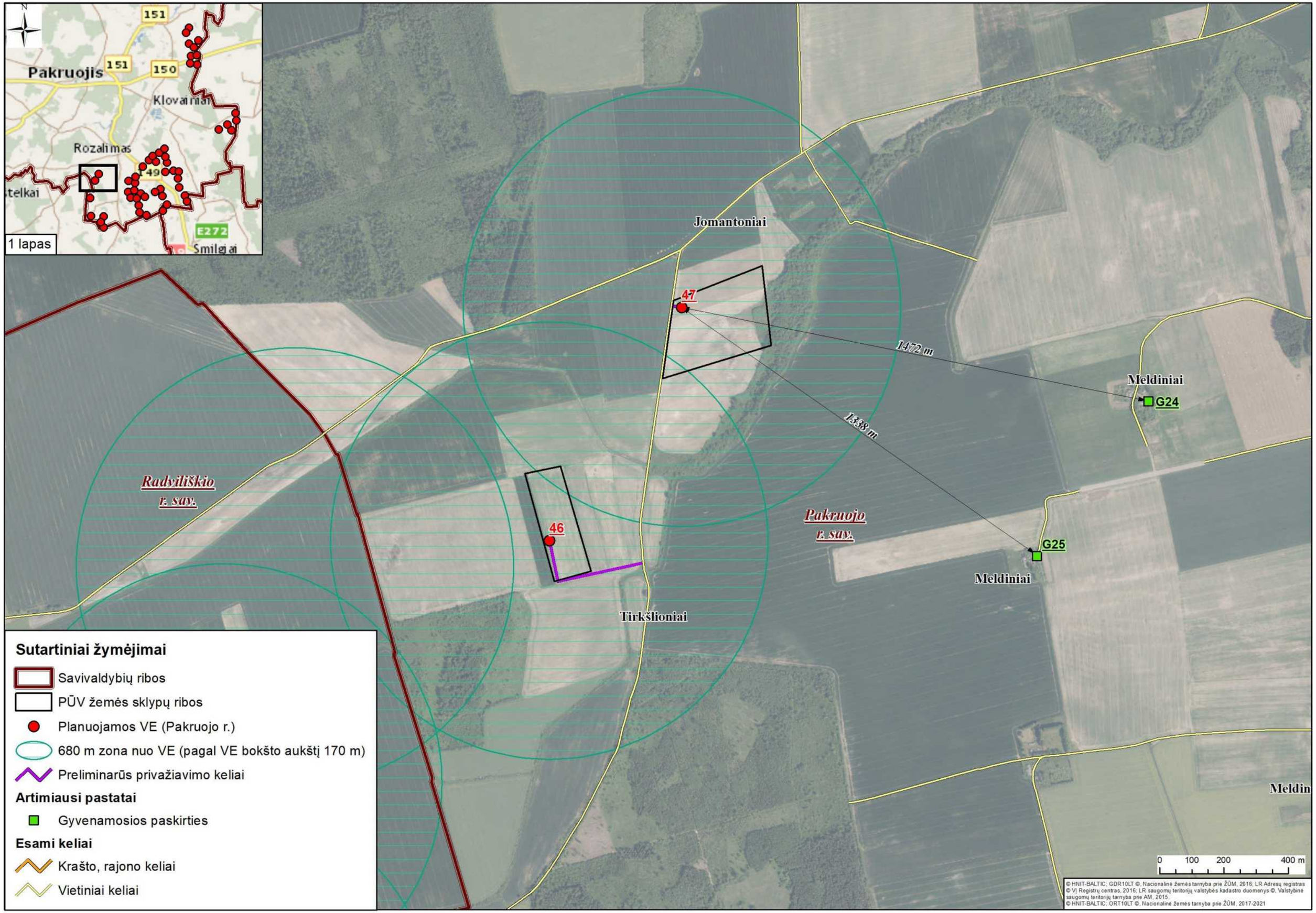
Calculation: real 2 alt SUM (shutdown)

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.

9 PRIEDAS

Pakruojo r. sav. artimiausia gyvenamoji aplinka


N
151
Pakruojis
151
150
Klovainiai
Rozalimas
149
telkai
E272
Šmilgiai
1 lapas
Jomantoniai
47
1472 m
1338 m
Meldiniai
G24
Radviliškio
r. sav.
46
Pakruojo
r. sav.
G25
Meldiniai
Tirkšlioniai
Meldin
0 100 200 400 m
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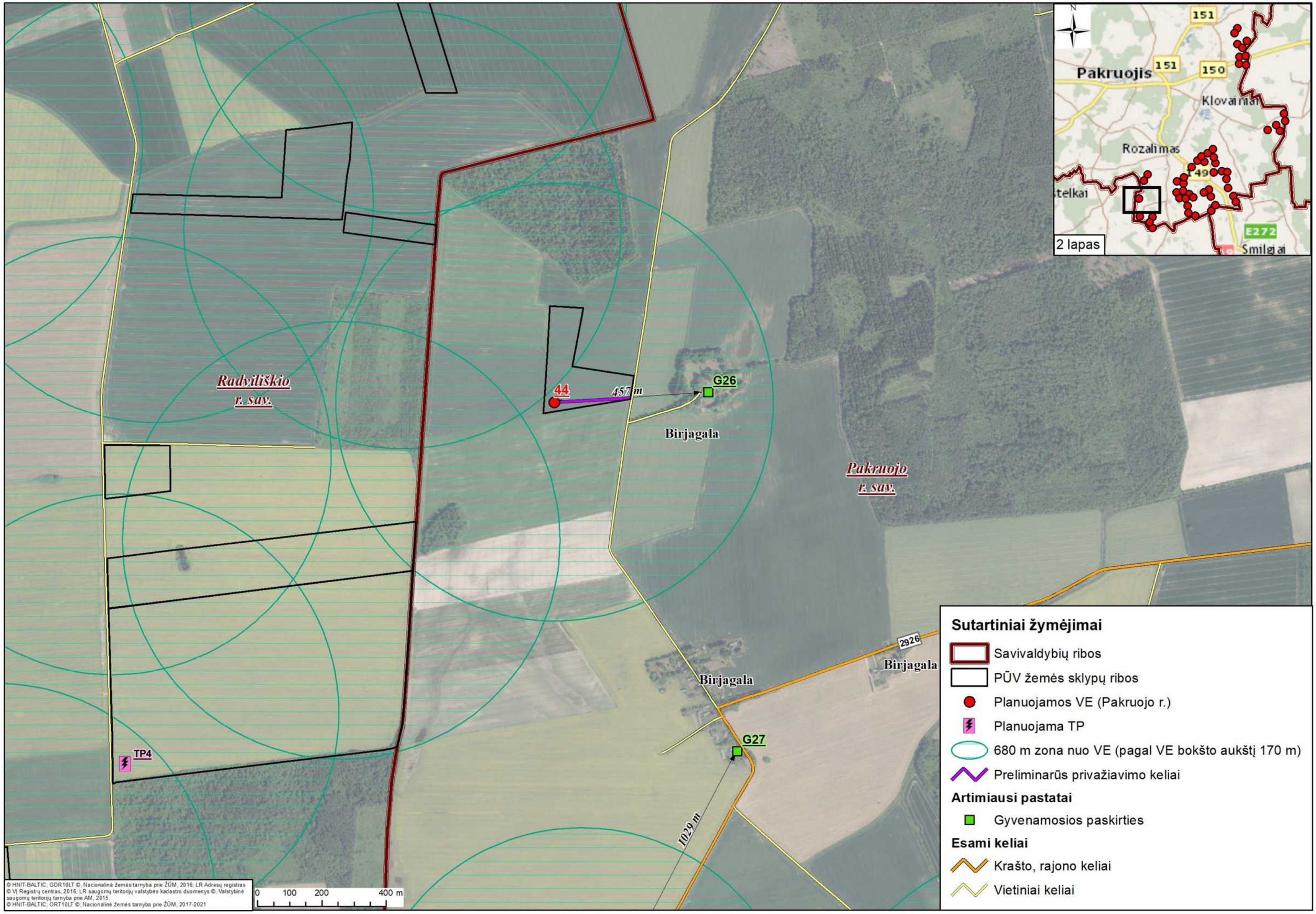
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Artimiausi pastatai
Gyvenamosios paskirties
Esami keliai
Krašto, rajono keliai
Vietiniai keliai


Radviliškio
r. sav.
44
457 m
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Pakruojo
r. sav.
Birjagala
Birjagala
2926
G27
1029 m
TP4
0 100 200 400 m
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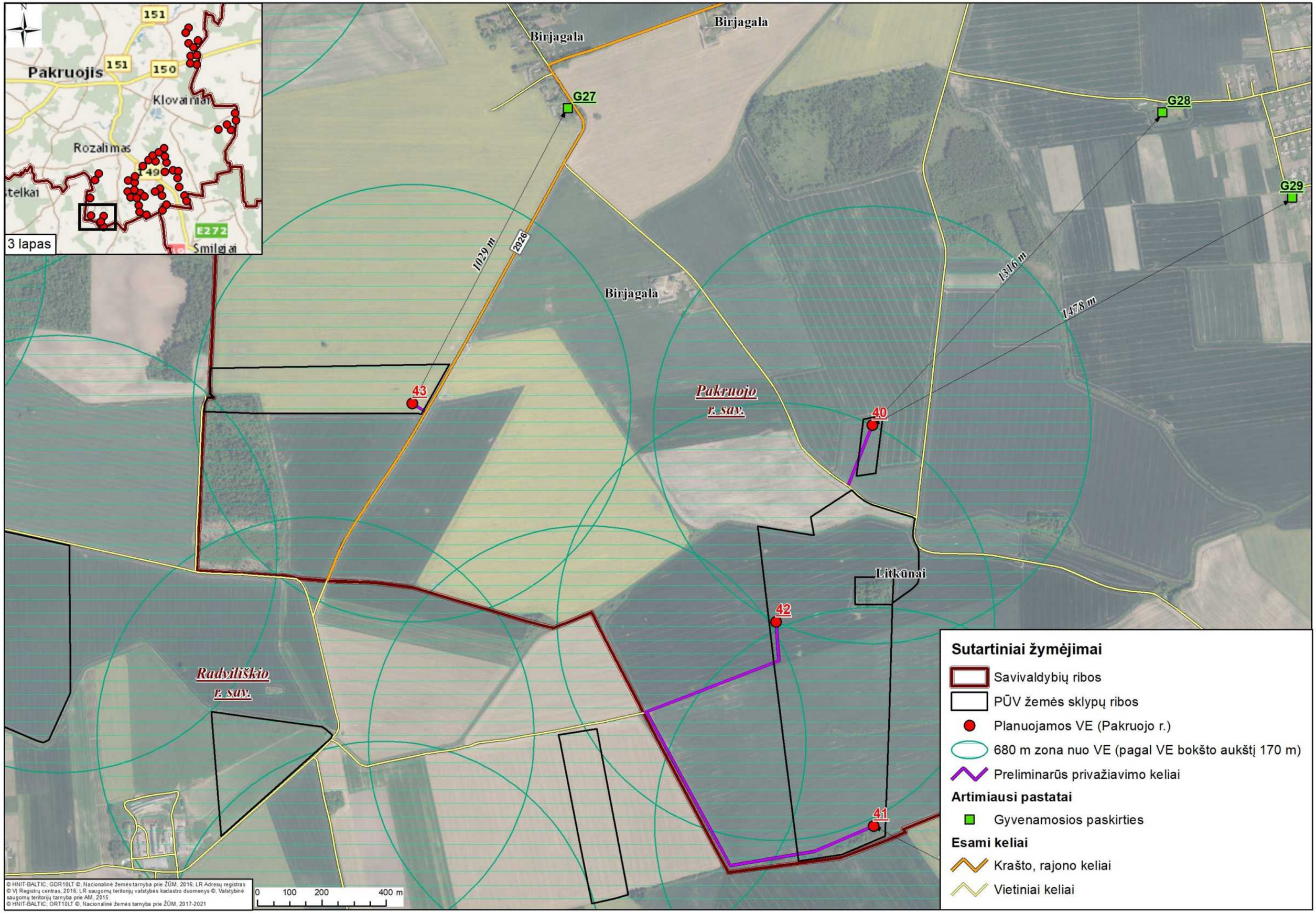
N
151
Pakruojis
151
150
Klovainiai
Rozalimas
149
E272
Šmilgiai
2 lapas
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
Planuojama TP
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Artimiausi pastatai
Gyvenamosios paskirties
Esami keliai
Krašto, rajono keliai
Vietiniai keliai


Pakruojis
151
150
Klovainiai
Rozalimas
149
E272
Smilgiai
3 lapas
Birjagala
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Birjagala
G27
G28
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1029 m
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43
40
42
41
Pakruojo
r. sav.
Litkūnai
Radviliškio
r. sav.
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Artimiausi pastatai
Gyvenamosios paskirties
Esami keliai
Krašto, rajono keliai
Vietiniai keliai
0 100 200 400 m
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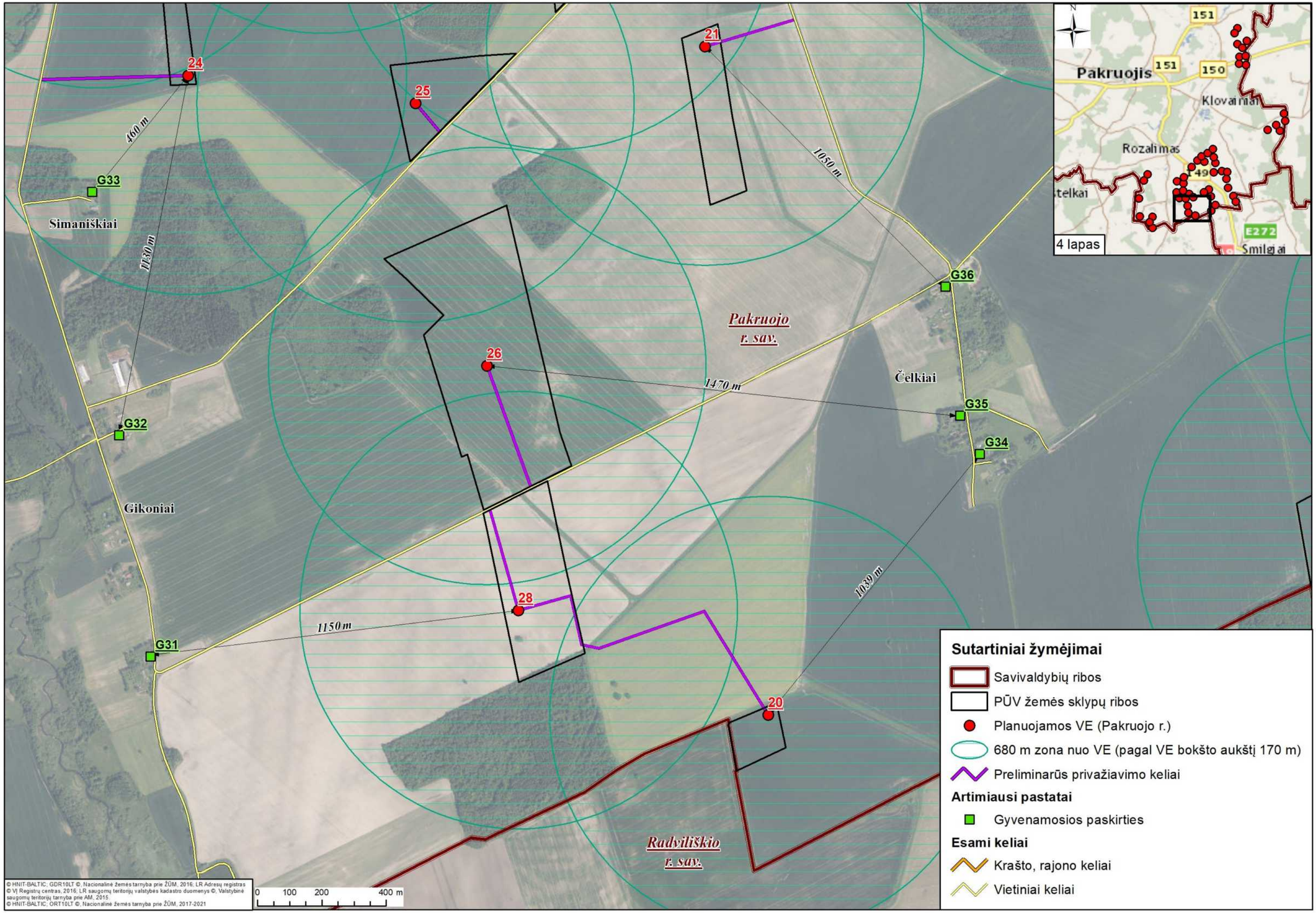
24
25
21
26
28
20
460 m
1130 m
1050 m
1470 m
1150 m
1039 m
G33
G32
G31
G36
G35
G34
Simaniškiai
Gikoniai
Čelkiai
Pakruojo r. sav.
Radviliškio r. sav.
Pakruojis
Klovainiai
Rozalimas
Smilgiai
151
150
149
E272
4 lapas
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0 100 200 400 m
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Artimiausi pastatai
Gyvenamosios paskirties
Esami keliai
Krašto, rajono keliai
Vietiniai keliai

5 lapas
Pakruojis
Klovainiai
Rozalimas
Šiauliai
Šimkaitelkai
Smilgiai
151
150
E272
Zaitiškis
Simaniškiai
Butnalaukis
Meldiniai
Galeliai
Pakruojo r. sav.
G38
G39
G40
G41
G42
G43
G44
G45
14
18
22
23
27
29
666 m
791 m
851 m
676 m
1082 m
1081 m
833 m
665 m
2906
0 100 200 400 m
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Artimiausi pastatai
Gyvenamosios paskirties
Esami keliai
Krašto, rajono keliai
Vietiniai keliai
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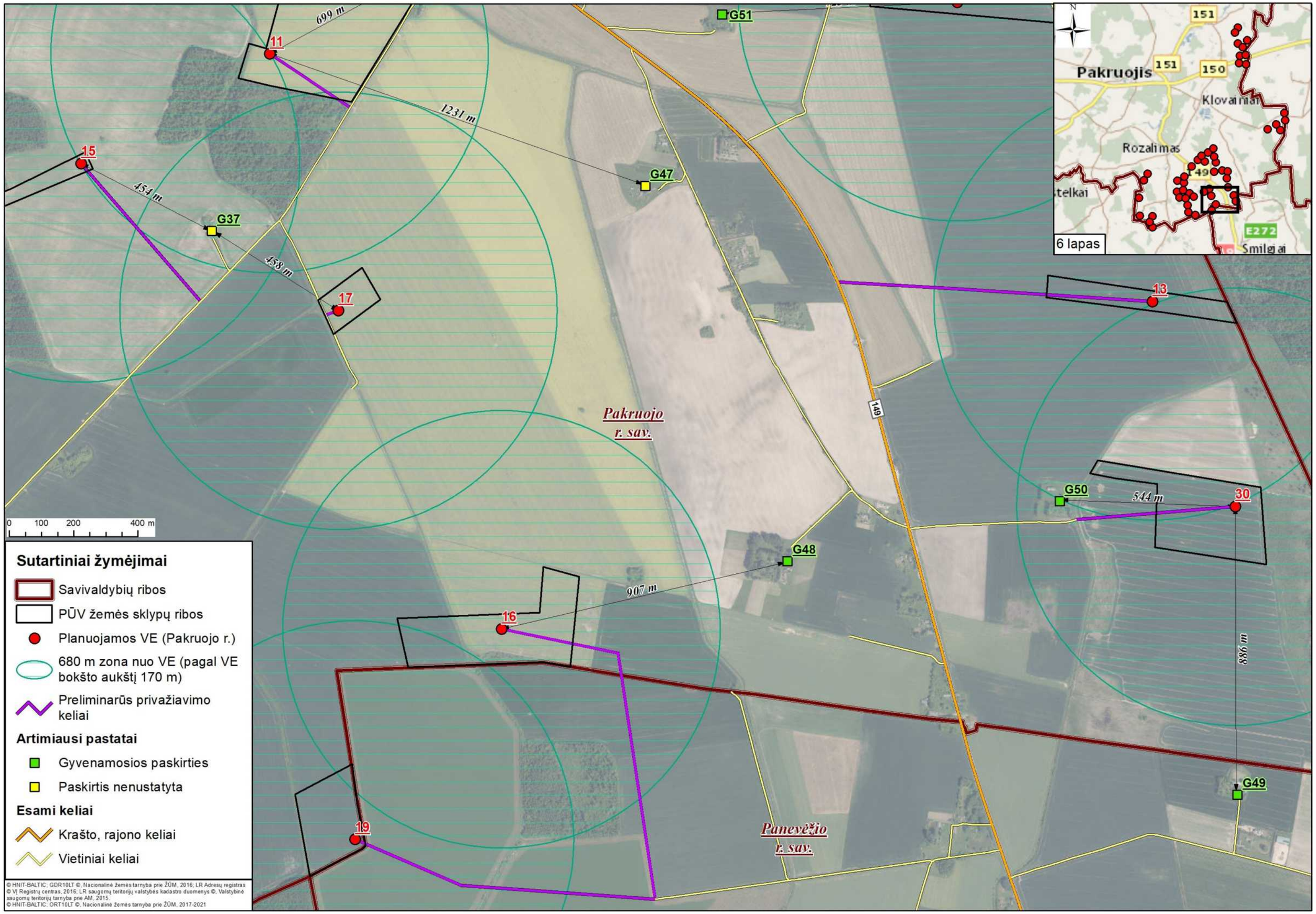
699 m
11
1231 m
G51
15
454 m
G37
458 m
17
G47
13
Pakruojo
r. sav.
149
G50
544 m
30
G48
907 m
16
886 m
G49
19
Panevėžio
r. sav.
0 100 200 400 m
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Artimiausi pastatai
Gyvenamosios paskirties
Paskirtis nenustatyta
Esami keliai
Krašto, rajono keliai
Vietiniai keliai
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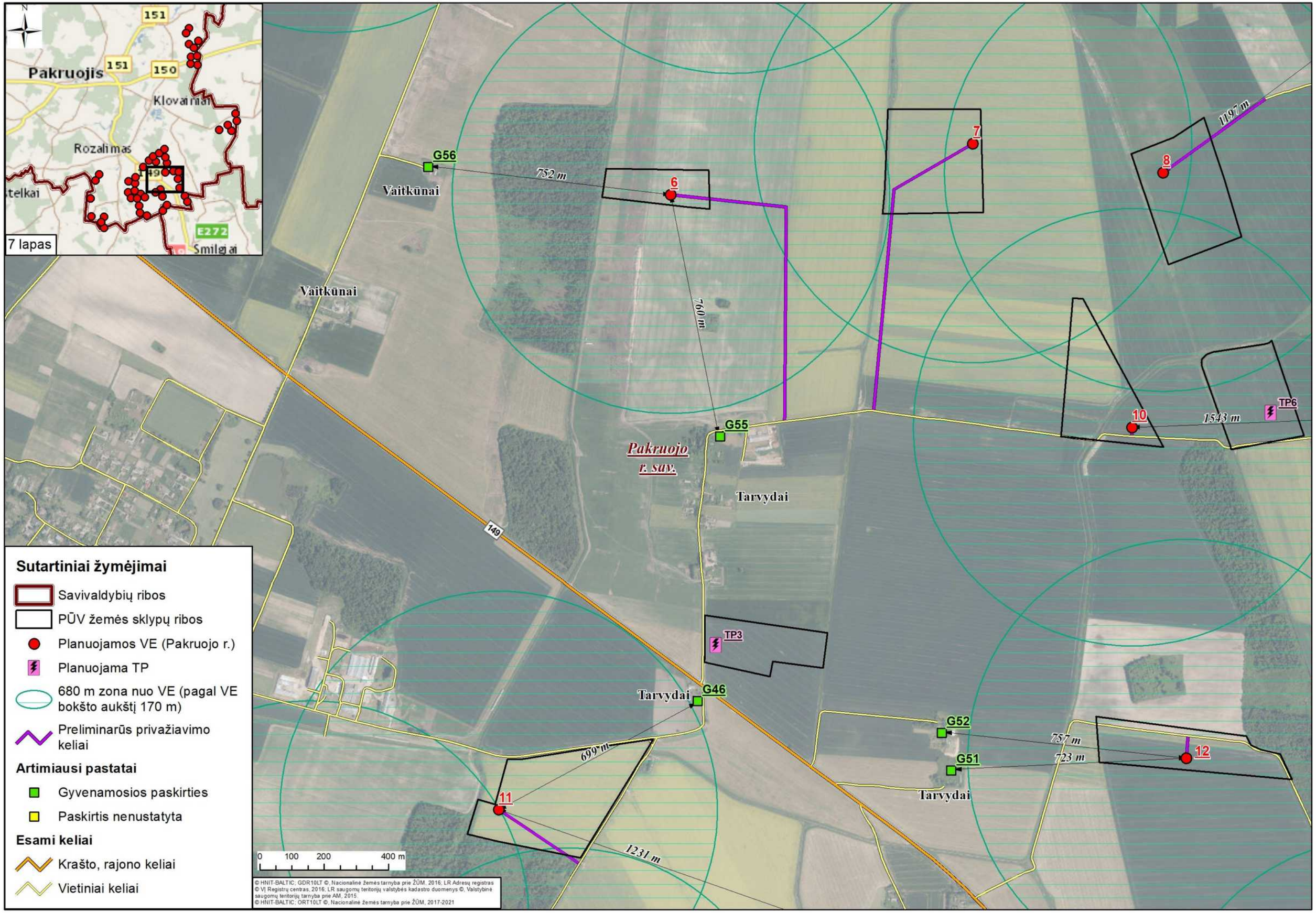
N
151
Pakruojis
151
150
Klovainiai
Rozalimas
149
telkai
E272
Smilgiai
6 lapas


7 lapas
Pakruojis
Klovainiai
Rozalimas
Šmilgiai
E272
151
150
149
Vaitkūnai
Vaitkūnai
Pakruojo r. sav.
Tarvydai
Tarvydai
Tarvydai
G56
G55
G46
G52
G51
TP3
TP6
752 m
760 m
1197 m
1543 m
699 m
1231 m
757 m
723 m
6
7
8
10
11
12
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
Planuojama TP
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Artimiausi pastatai
Gyvenamosios paskirties
Paskirtis nenustatyta
Esami keliai
Krašto, rajono keliai
Vietiniai keliai
0 100 200 400 m
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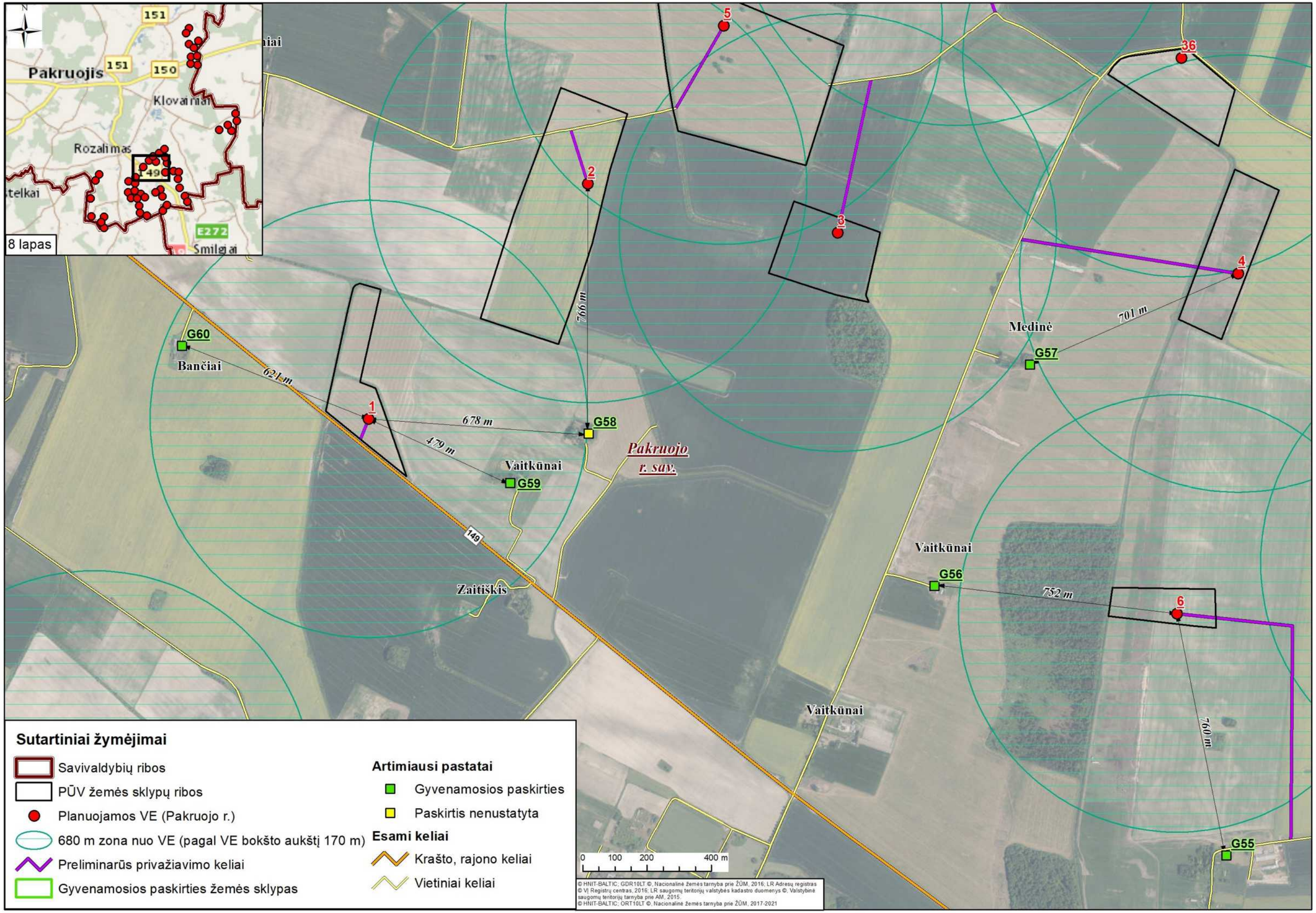
8 lapas
Pakruojis
Klovainiai
Rozalimas
Šmilgiai
E272
151
150
149
1
2
3
4
5
6
36
G55
G56
G57
G58
G59
G60
Medinė
Bančiai
Vaitkūnai
Zaitiškis
Pakruojo r. sav.
621 m
678 m
479 m
766 m
701 m
752 m
760 m
0 100 200 400 m
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Gyvenamosios paskirties žemės sklypas
Artimiausi pastatai
Gyvenamosios paskirties
Paskirtis nenustatyta
Esami keliai
Krašto, rajono keliai
Vietiniai keliai
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Gačioniai

Gačioniai

G54

1197 m

7

8

10

TP6

1543 m

G53

Pakruojo r. sav.

2918

Pašakiai

Tirkšlio

0 100 200 400 m

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N

151

Pakruojis

151

150

Klovainiai

Rozalimas

149

telkai

E272

Smilgiai

9 lapas

Sutartiniai žymėjimai

- Savivaldybių ribos
- PŪV žemės sklypų ribos
- Planuojamos VE (Pakruojo r.)
- Planuojama TP
- 680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
- Preliminarūs privažiavimo keliai

Artimiausi pastatai

- Gyvenamosios paskirties
- Paskirtis nenustatyta

Esami keliai

- Krašto, rajono keliai
- Vietiniai keliai

Getautai

G61

1157 m

Getautai

Pakruojo
r. sav.

35

34

Žiurkiai

5

36

2918

0 100 200 400 m

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N

151

Pakruojis

151

150

Klovainiai

Rozalimas

149

telkai

E272

Smilgiai

10 lapas

Sutartiniai žymėjimai

Savivaldybių ribos

PŪV žemės sklypų ribos

Planuojamos VE (Pakruojo r.)

680 m zona nuo VE (pagal VE bokšto aukštį 170 m)

Preliminarūs privažiavimo keliai

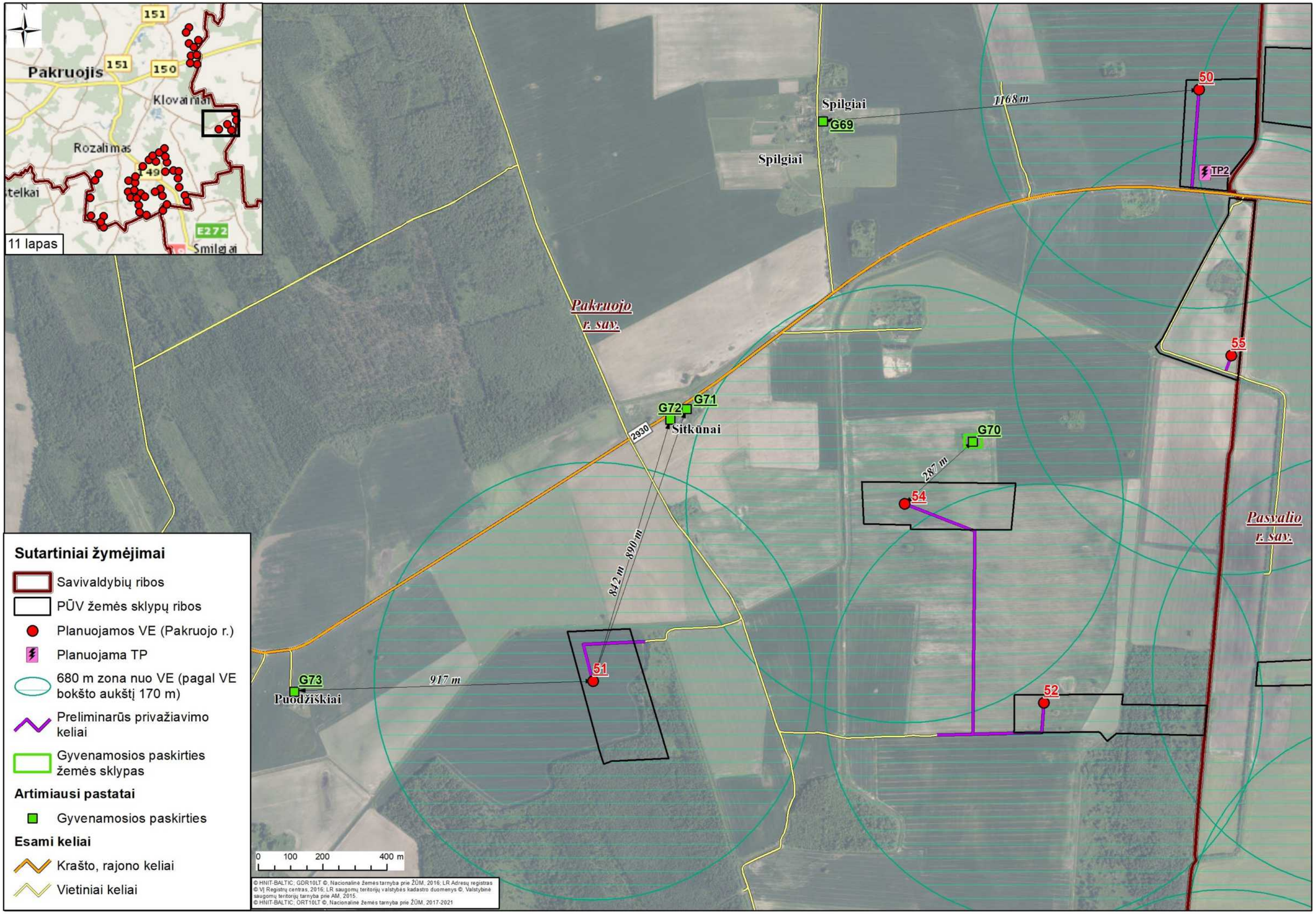
Artimiausi pastatai

Gyvenamosios paskirties

Esami keliai

Krašto, rajono keliai

Vietiniai keliai


11 lapas
Pakruojis
Klovainiai
Rozalimas
Smilgiai
Spilgiai
G69
1168 m
50
TP2
55
Pakruojo r. sav.
G72
G71
Sitkūnai
2930
G70
287 m
54
842 m
890 m
51
917 m
G73
Puodžiškiai
52
Pasvalio r. sav.
0 100 200 400 m
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
Planuojama TP
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Gyvenamosios paskirties žemės sklypas
Artimiausi pastatai
Gyvenamosios paskirties
Esami keliai
Krašto, rajono keliai
Vietiniai keliai
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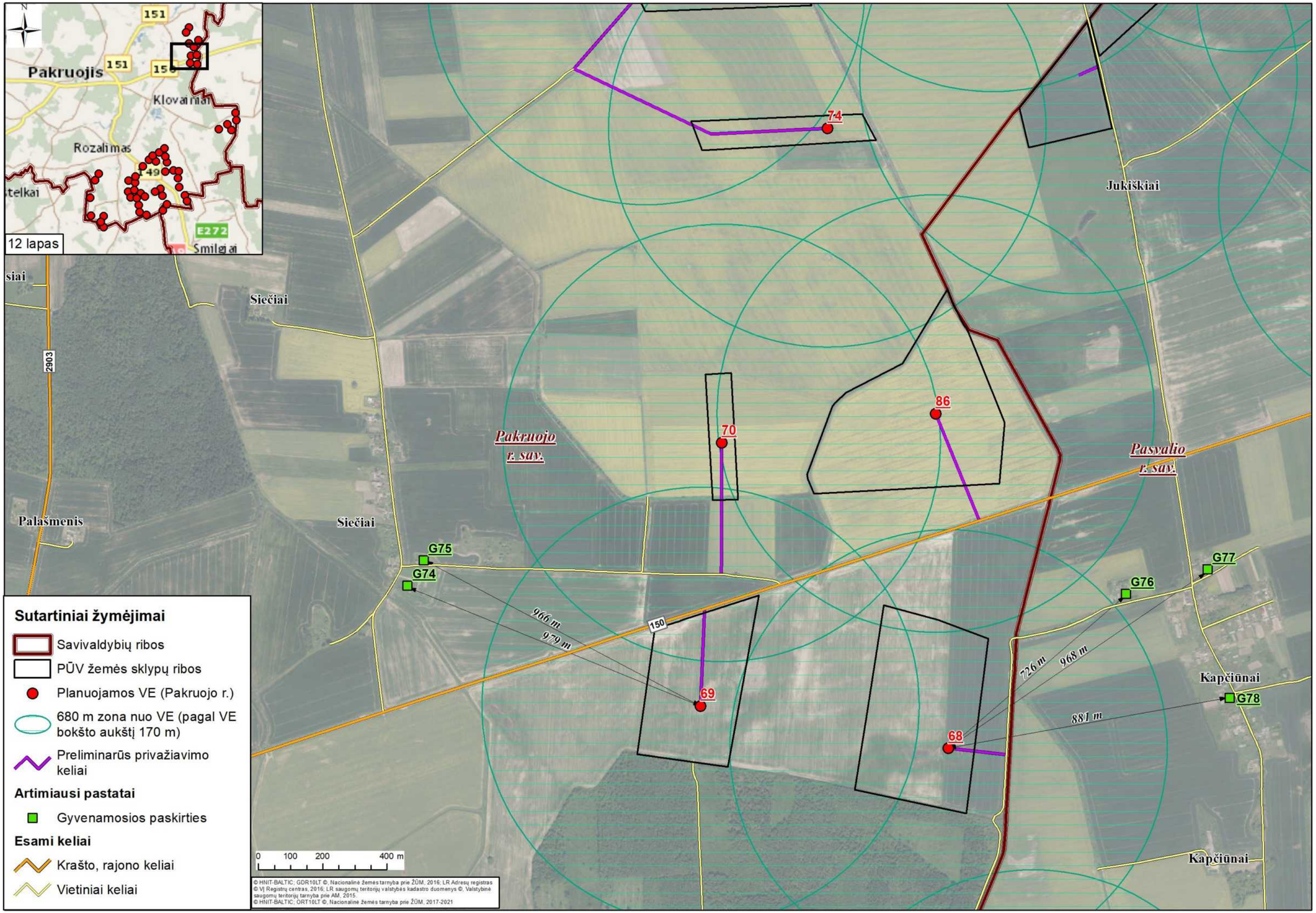
12 lapas
Pakruojis
Klovainiai
Rozalimas
Smilgiai
Siečiai
Jukiškiai
Pakruojo r. sav.
Pasvalio r. sav.
Palašmenis
Kapčiūnai
74
70
86
69
68
G74
G75
G76
G77
G78
966 m
979 m
726 m
968 m
881 m
150
2903
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Artimiausi pastatai
Gyvenamosios paskirties
Esami keliai
Krašto, rajono keliai
Vietiniai keliai
0 100 200 400 m
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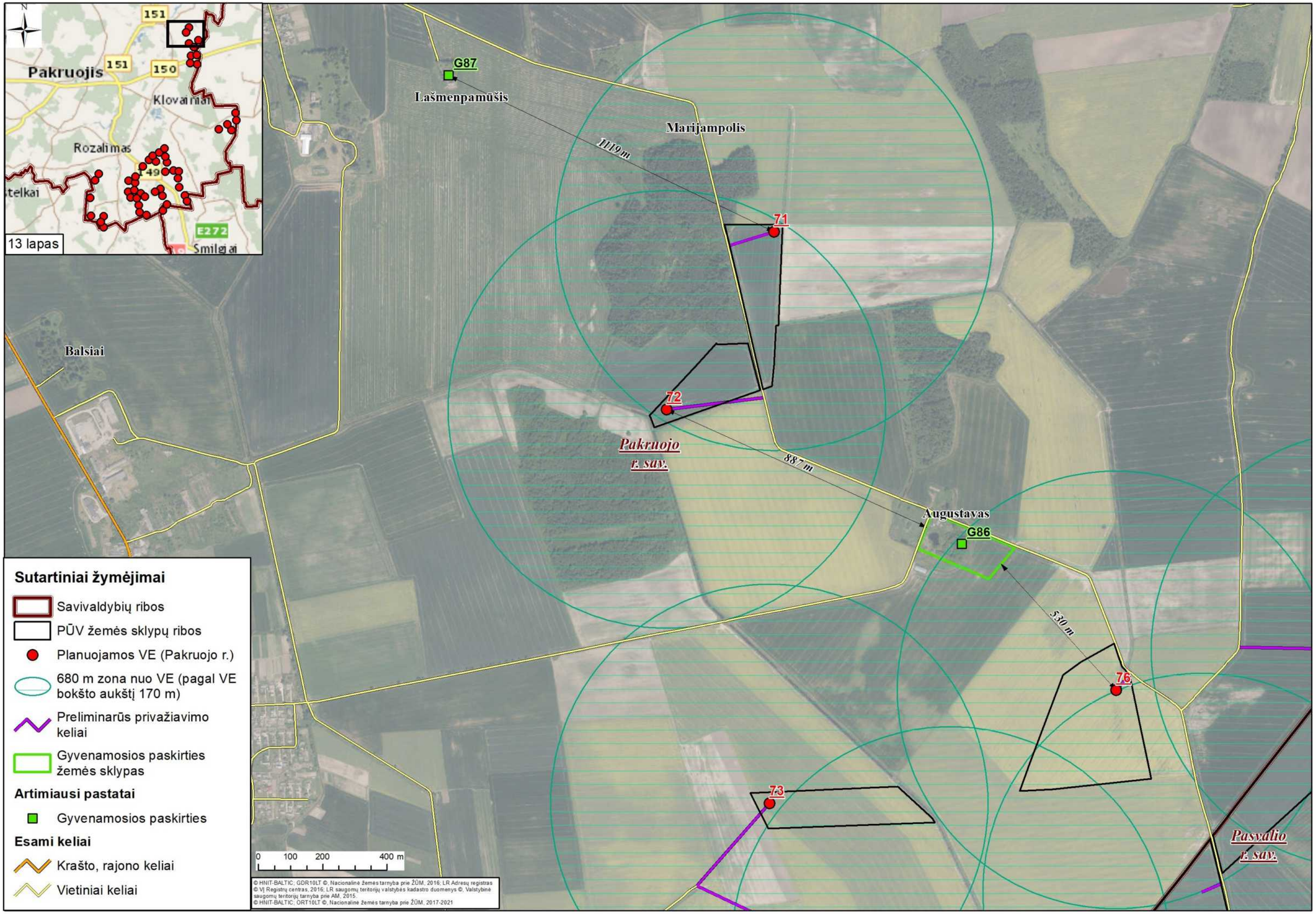
13 lapas
Pakruojis
Klovainiai
Rozalimas
Smilgiai
Lašmenpamūšis
G87
Marijampolis
1119 m
71
72
Balsiai
Pakruojo r. sav.
887 m
Augustavas
G86
530 m
76
73
Pasvalio r. sav.
Sutartiniai žymėjimai
Savivaldybių ribos
PŪV žemės sklypų ribos
Planuojamos VE (Pakruojo r.)
680 m zona nuo VE (pagal VE bokšto aukštį 170 m)
Preliminarūs privažiavimo keliai
Gyvenamosios paskirties žemės sklypas
Artimiausi pastatai
Gyvenamosios paskirties
Esami keliai
Krašto, rajono keliai
Vietiniai keliai
0 100 200 400 m
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