

SHADOW - Main Result

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
1.35	3.07	4.72	8.16	9.63	10.93	9.79	7.85	5.92	3.23	1.29	0.72

Operational hours are calculated from WTGs in calculation and wind distribution:

EmdWrf_N56.550_E022.373

Operational time

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
293	300	348	355	333	399	506	566	582	663	919	1,110

W	WNW	NW	NNW	Sum
790	574	487	406	8,631

Idle start wind speed: Cut in wind speed from power curve

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: Foto OB_EMDGrid_0.wpg (

Obstacles used in calculation

Receptor grid resolution: 1.0 m

All coordinates are in

Latvian TM LKS92-LKS92 (LV)

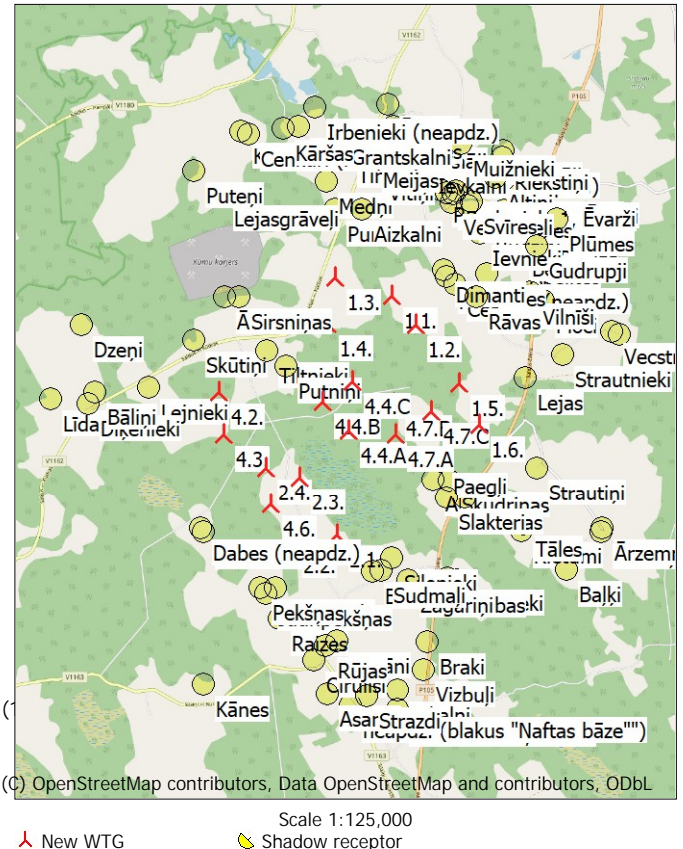
WTGs

	Y	X	Z	Row data/Description	WTG type		Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data	
					Valid	Manufact.					Calculation distance [m]	RPM [RPM]
			[m]									
1.1.	401,949	271,445	93.4	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
1.2.	402,341	270,953	95.5	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
1.3.	401,016	271,757	90.3	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
1.4.	400,873	271,016	90.4	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
1.5.	403,026	269,961	95.7	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
1.6.	403,363	269,297	95.0	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
2.1.	400,943	267,505	92.2	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
2.2.	400,175	267,431	88.9	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
2.3.	400,366	268,466	94.1	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
2.4.	399,792	268,652	96.3	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
4.2.	399,034	269,920	88.1	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
4.3.	399,098	269,215	89.2	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
4.4.A	401,170	269,239	93.2	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
4.4.B	400,769	269,723	92.1	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
4.4.C	401,263	270,045	88.9	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
4.6.	399,865	268,033	90.6	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
4.7.A	401,948	269,145	89.1	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
4.7.B	401,957	269,656	91.1	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8
4.7.C	402,552	269,516	92.0	Siemens Gamesa SG 6.6-...	Yes	Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	165.0	2,037	8.8

Shadow receptor-Input

No.	Y	X	Z	Width	Height	Elevation a.g.l. [m]	Slope of window [°]	Direction mode	Eye height (ZVI) a.g.l. [m]
			[m]	[m]	[m]	[m]	[°]		[m]
Aizkalni	401,504	272,888	95.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Alksniš	1402,576	268,410	93.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Altini	403,714	273,362	115.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0

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SHADOW - Main Result

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No.	Y	X	Z	Width	Height	Elevation	Slope of	Direction mode	Eye height
			[m]	[m]	[m]	a.g.l.	window		(ZVI) a.g.l.
						[m]	[°]		[m]
Apinaji	402,369	274,077	123.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Asarini	400,735	264,890	92.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Atkalni	401,905	264,915	96.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Balki	404,759	266,845	100.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Braki	402,396	265,709	93.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Bruveli	401,527	266,885	97.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Balini	396,990	269,969	88.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Berzini	404,093	272,270	107.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Celmaji	403,862	273,813	121.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Cenkuri (neapdz.)	399,657	274,183	102.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Cerpi	403,012	271,611	100.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Ciruliš i	400,518	265,457	91.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Ciruli	401,728	273,732	108.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Dabes (neapdz.)	398,683	267,667	91.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Dimanti	402,817	271,853	98.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Dzeni	396,783	271,087	93.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Dzidras	403,087	268,064	96.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Dikenieki	396,877	269,789	90.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Dukas	404,331	272,502	112.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Eziš i	403,846	272,824	108.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Grantskalni	401,152	274,170	104.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Gudrupji	404,361	272,218	109.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Ievkalni (neapdz.)	402,558	273,667	116.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Ievnieki	403,440	272,444	108.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Irbenieki (neapdz.)	400,750	274,599	106.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Irbes	403,542	271,761	101.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Jaundabes	398,739	267,598	91.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Jaunpekš nas	399,745	266,574	91.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Jurgi	404,123	273,060	110.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Kalnacenkuri	399,528	274,230	104.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Kalnaraji (neapdz.)	402,861	271,751	99.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Kalnini	405,716	270,721	111.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Kalves	402,045	274,251	115.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Kamenites	403,250	272,912	110.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Krumi	400,477	274,289	102.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Kunkuli (neapdz.)	405,338	267,448	105.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Kanes	398,662	265,093	86.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Karš as	400,213	274,241	104.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Leibas	402,935	266,713	97.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Lejas	404,132	270,043	98.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Lejasgraveli	399,180	273,203	97.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Lejnieki	397,874	270,025	91.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Lidakas	396,260	269,875	89.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Medni	400,925	273,366	101.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Meijas	401,666	273,764	108.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Merani	400,903	265,761	90.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Muiž nieki	403,157	273,934	134.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
neapdz. (blakus "Naftas baze")	401,110	264,675	93.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Ozolu iela 23, Kursiš i	401,902	264,610	95.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Paegli	402,696	268,692	95.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Parka iela 1, Evarž i	403,014	273,114	117.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Parka iela 3, Evarž i	403,070	273,156	115.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Parka iela 5, Evarž i	402,805	273,170	119.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Parka iela 7, Evarž i	402,894	273,140	119.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Paulas	404,555	272,414	111.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Pekš nas	399,659	266,651	91.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Plostnieki	402,767	266,753	97.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Ploci	404,471	271,307	109.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Plumes	404,707	272,640	111.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Priedes	401,870	274,092	113.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Purvini	401,051	272,909	96.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Puteni	398,729	273,596	102.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Putnini	400,173	270,323	95.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Raizes	399,971	266,137	90.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0

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SHADOW - Main Result

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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]			
Riekstini	403,838	273,696	123.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Rietumi	404,000	267,502	105.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Rudzini	403,494	272,624	108.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Ravas	403,362	271,399	100.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Rujas	400,719	265,679	92.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Silenieki	401,835	267,111	94.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Sirsniņas	399,423	271,497	91.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Skudrinās	402,842	268,384	97.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Skutini	398,652	270,792	90.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Slakteri	402,778	268,074	98.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Smilgas	404,151	272,392	108.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Smiltņieki	399,918	266,650	90.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Strautini	404,280	268,550	99.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Strautņieki	404,776	270,420	104.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Strazdi	401,394	264,838	95.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Sudmali	401,671	266,895	99.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Svires	403,300	272,986	112.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Tiltņieki	399,850	270,594	95.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Tales	404,057	267,599	105.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Tireli	401,249	273,856	104.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Vecstraki (neapdz.)	405,576	270,784	110.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Vecsameli	402,962	272,952	111.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Vilniši	404,245	271,457	106.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Vizbuli	402,334	265,237	93.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Vitini	401,744	273,568	104.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Abeles	399,188	271,482	91.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Abeles	401,948	274,613	118.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Abelites	404,051	272,142	108.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Arzemnieki	405,364	267,512	106.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Žagarini	402,113	266,734	93.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0

Calculation Results

Shadow receptor

No.	Shadow, worst case			Shadow, expected values	
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]	
Aizkalni	40:45	62	0:57	3:20	
Alksniši	32:44	114	0:26	10:35	
Altini	0:00	0	0:00	0:00	
Apinaji	0:00	0	0:00	0:00	
Asarini	0:00	0	0:00	0:00	
Atkalni	0:00	0	0:00	0:00	
Balki	0:00	0	0:00	0:00	
Braki	0:00	0	0:00	0:00	
Bruveli	35:32	116	0:28	12:25	
Balini	0:00	0	0:00	0:00	
Berzini	0:00	0	0:00	0:00	
Celmaji	0:00	0	0:00	0:00	
Cenkuri (neapdz.)	0:00	0	0:00	0:00	
Cerpi	63:37	122	0:43	14:17	
Ciruliši	0:00	0	0:00	0:00	
Ciruli	0:00	0	0:00	0:00	
Dabes (neapdz.)	48:02	101	0:52	16:53	
Dimanti	87:37	168	0:41	13:34	
Dzeni	0:00	0	0:00	0:00	
Dzidras	0:00	0	0:00	0:00	
Dikenieki	0:00	0	0:00	0:00	
Dukas	0:00	0	0:00	0:00	
Eziši	0:00	0	0:00	0:00	
Grantskalni	0:00	0	0:00	0:00	
Gudrupji	0:00	0	0:00	0:00	
Ievkalni (neapdz.)	0:00	0	0:00	0:00	

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No.	Shadow, worst case			Shadow, expected values	
	Shadow hours	Shadow days	Max shadow	Shadow hours	
	per year	per year	hours per day	per year	
	[h/year]	[days/year]	[h/day]	[h/year]	
Ievnieki	28:59	94	0:23	3:22	
Irbenieki (neapdz.)	0:00	0	0:00	0:00	
Irbes	23:26	71	0:28	5:13	
Jaundabes	60:30	115	0:55	21:58	
Jaunpekš nas	7:25	30	0:19	3:01	
Jurgi	0:00	0	0:00	0:00	
Kalnacenkuri	0:00	0	0:00	0:00	
Kalnaraji (neapdz.)	89:50	175	0:43	15:09	
Kalnini	0:00	0	0:00	0:00	
Kalves	0:00	0	0:00	0:00	
Kamenites	11:28	50	0:21	1:13	
Krumi	0:00	0	0:00	0:00	
Kunkuli (neapdz.)	0:00	0	0:00	0:00	
Kanes	0:00	0	0:00	0:00	
Karš as	0:00	0	0:00	0:00	
Leibas	0:00	0	0:00	0:00	
Lejas	67:57	172	0:38	16:24	
Lejasgraveli	0:00	0	0:00	0:00	
Lejnieki	32:30	81	0:34	8:17	
Lidakas	0:00	0	0:00	0:00	
Medni	0:00	0	0:00	0:00	
Meijas	0:00	0	0:00	0:00	
Merani	0:00	0	0:00	0:00	
Muiž nieki	0:00	0	0:00	0:00	
neapdz. (blakus "Naftas baze")	0:00	0	0:00	0:00	
Ozolu iela 23, Kursiņš i	0:00	0	0:00	0:00	
Paegli	60:00	112	0:48	21:25	
Parka iela 1, Evarž i	11:27	41	0:21	0:53	
Parka iela 3, Evarž i	0:00	0	0:00	0:00	
Parka iela 5, Evarž i	0:04	2	0:02	0:00	
Parka iela 7, Evarž i	5:20	26	0:15	0:22	
Paulas	0:00	0	0:00	0:00	
Pekš nas	22:46	58	0:28	9:03	
Plostnieki	7:53	33	0:21	2:41	
Ploci	8:35	36	0:21	1:01	
Plumes	0:00	0	0:00	0:00	
Priedes	0:00	0	0:00	0:00	
Purvini	42:12	64	0:56	3:13	
Puteni	0:00	0	0:00	0:00	
Putnini	111:22	157	0:59	20:41	
Raizes	0:00	0	0:00	0:00	
Riekstini	0:00	0	0:00	0:00	
Rietumi	0:00	0	0:00	0:00	
Rudzini	22:43	81	0:21	2:24	
Ravas	35:42	95	0:35	9:11	
Rujas	0:00	0	0:00	0:00	
Silenieki	70:17	134	0:43	25:17	
Sirsninas	21:53	66	0:26	6:26	
Skudrinās	17:23	68	0:22	6:09	
Skutini	60:03	92	0:46	5:18	
Slakteri	25:07	89	0:22	8:11	
Smilgas	0:00	0	0:00	0:00	
Smiltieki	0:00	0	0:00	0:00	
Strautini	21:32	76	0:25	7:38	
Strautnieki	16:39	63	0:23	3:11	
Strazdi	0:00	0	0:00	0:00	
Sudmali	15:15	55	0:26	5:17	
Svires	0:00	0	0:00	0:00	
Tiltieki	132:30	262	1:09	31:18	
Tales	0:00	0	0:00	0:00	
Tireli	0:00	0	0:00	0:00	
Vecstraki (neapdz.)	0:00	0	0:00	0:00	
Vecsameli	18:35	54	0:24	1:33	

To be continued on next page...

SHADOW - Main Result

...continued from previous page

No.		Shadow, worst case		Shadow, expected values	
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
	Vilniš i	21:41	92	0:22	2:52
	Vizbuli	0:00	0	0:00	0:00
	Vitini	0:00	0	0:00	0:00
	Abeles	15:52	58	0:23	4:42
	Abeles	0:00	0	0:00	0:00
	Abelites	0:00	0	0:00	0:00
	Arzemnieki	0:00	0	0:00	0:00
	Ž agarini	31:44	71	0:30	11:18

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

No.	Name	Worst case [h/year]	Expected [h/year]
1.1.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (18)	169:31	31:25
1.2.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (19)	188:48	28:37
1.3.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (16)	78:04	13:13
1.4.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (17)	64:01	22:40
1.5.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (14)	54:13	10:48
1.6.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (15)	49:39	10:11
2.1.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (7)	139:41	49:24
2.2.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (6)	48:05	15:31
2.3.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (4)	23:36	9:03
2.4.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (3)	0:00	0:00
4.2.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (1)	122:28	20:23
4.3.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (2)	52:23	6:21
4.4.A	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (8)	84:10	24:39
4.4.B	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (9)	47:43	7:42
4.4.C	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (10)	30:42	7:34
4.6.	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (5)	64:01	23:43
4.7.A	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (11)	53:45	19:23
4.7.B	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (12)	6:31	1:25
4.7.C	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 165.0 m (TOT: 250.0 m) (13)	19:07	5:38

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.