

DECIBEL - Main Result

Calculation: Mūra_Alad11_106 dB_ala12_108dB_Saare elamuga

Noise calculation model:

ISO 9613-2 General

Wind speed (at 10 m height):

Highest noise value

Ground attenuation:

General, Ground factor: 0,4

Meteorological coefficient, C0:

Selected option: Fixed value: 0,0 dB

Type of demand in calculation:

1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

Fixed penalty added to source noise of WTGs with pure tones

Model: 5,0 dB(A)

Height above ground level, when no value in NSA object:

4,0 m; Don't allow override of model height with height from NSA object

Uncertainty margin:

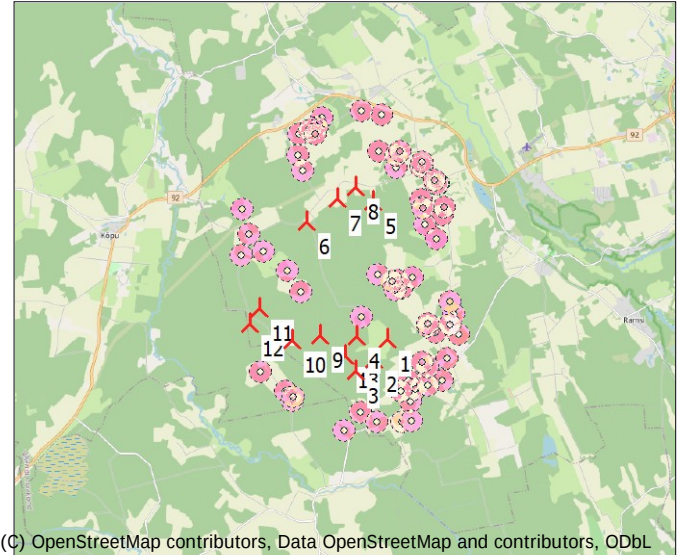
0,0 dB; Uncertainty margin in NSA has priority

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:

0,0 dB(A)

All coordinates are in

Estonian Lambert L-EST97-EST97 (EE)



Scale 1:200 000
New WTG
Noise sensitive area

WTGs

	East	North	Z	Row data/Description	WTG type		Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data		Wind speed [m/s]	LwA,ref [dB(A)]
					Valid	Manufact.				Creator	Name		
			[m]										
1	583 841	6 463 249	90,0	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	106dB	9,0 106,0 h
2	583 482	6 462 720	82,6	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	106dB	9,0 106,0 h
3	582 995	6 462 395	76,1	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	106dB	9,0 106,0 h
4	583 012	6 463 317	79,0	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	106dB	9,0 106,0 h
5	583 373	6 466 877	80,0	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	108dB	9,0 108,0 h
6	581 615	6 466 329	72,6	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	108dB	9,0 108,0 h
7	582 417	6 466 936	79,9	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	108dB	9,0 108,0 h
8	582 894	6 467 253	80,0	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	108dB	9,0 108,0 h
9	582 042	6 463 320	70,0	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	106dB	9,0 106,0 h
10	581 320	6 463 176	64,3	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	106dB	9,0 106,0 h
11	580 416	6 464 002	60,2	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	106dB	9,0 106,0 h
12	580 186	6 463 604	64,7	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	106dB	9,0 106,0 h
13	582 723	6 462 787	73,8	Teoreetiline V180 72...	Yes	Teoreetiline	V180-7 200	7 200	180,0	200,0	USER	106dB	9,0 106,0 h

h) Generic octave distribution used

Calculation Results

Sound level

Noise sensitive area

No.	Name	East	North	Z	Immission height [m]	Demands		Sound level From WTGs [dB(A)]
						Noise [dB(A)]		
A	Vanausse/1	584 899	6 463 619	85,3	4,0	40,0		35,8
B	Napi	584 769	6 462 664	84,3	4,0	40,0		36,7
C	Välbi	585 717	6 463 414	80,0	4,0	40,0		31,5
D	Pulli-Peetri	584 012	6 464 555	90,0	4,0	40,0		36,2
E	Univere	582 742	6 460 792	63,5	4,0	40,0		33,5
F	Metsniku	585 327	6 462 189	80,0	4,0	40,0		32,4
G	Suurematsi	584 226	6 461 905	81,0	4,0	40,0		37,2
H	Lannu	584 916	6 462 534	83,0	4,0	40,0		35,4
I	Jõõgre	583 597	6 461 058	70,0	4,0	40,0		34,5
J	Tammiste	584 496	6 461 597	80,0	4,0	40,0		34,4
K	Parastma	584 082	6 464 797	90,0	4,0	40,0		35,3
L	Kopli	584 954	6 462 061	80,0	4,0	40,0		34,0
M	Singisoo	585 442	6 462 785	80,1	4,0	40,0		32,7
N	Väljaotsa	584 427	6 462 160	82,8	4,0	40,0		37,3
O	Univere-Männiku	581 370	6 461 667	64,8	4,0	40,0		35,4

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Noise sensitive area				Demands		Sound level
No.	Name	East	North	Z	Immission height	From WTGs
				[m]	[m]	[dB(A)]
P	Satre	579 892	6 466 632	51,0	4,0	32,9
Q	Leinpõllu	583 536	6 464 947	87,6	4,0	36,2
R	Rehila	585 275	6 466 775	76,5	4,0	32,0
S	Uue-Peebu	584 697	6 466 754	80,0	4,0	35,2
T	Torimo-Ritsu	585 076	6 467 402	75,6	4,0	32,6
U	Jaanisalu	580 505	6 465 512	60,0	4,0	36,2
V	Marna	585 228	6 466 588	78,7	4,0	32,2
W	Niidu	581 977	6 469 070	68,4	4,0	32,2
X	Memme	584 522	6 461 108	72,5	4,0	32,3
Y	Lepalohu	585 086	6 465 931	80,2	4,0	32,4
Z	Paisuojä	580 108	6 465 955	60,0	4,0	34,4
AA	Univere-Saare	581 336	6 461 572	63,7	4,0	34,9
AB	Piiraja	581 133	6 465 012	60,2	4,0	37,6
AC	Songa	579 905	6 465 404	60,0	4,0	34,5
AD	Sirtsu	585 026	6 467 404	76,6	4,0	32,9
AE	Kantsiku	584 259	6 461 064	72,3	4,0	32,9
AF	Vana-Rulli	583 946	6 464 787	90,0	4,0	35,7
AG	Luhasadu	583 171	6 461 307	70,5	4,0	36,7
AH	Vana-Kuninga	580 491	6 462 326	65,7	4,0	36,6
AI	Kadastiku	583 984	6 467 790	80,0	4,0	37,9
AJ	Juuriku	581 518	6 464 444	64,2	4,0	38,6
AK	Tuule	584 459	6 464 894	88,2	4,0	34,2
AL	Metsa	581 478	6 467 673	70,0	4,0	37,8
AM	Mandli	584 180	6 464 599	90,0	4,0	35,6
AN	Lutso	585 480	6 463 673	81,5	4,0	32,4
AO	Söödi	581 139	6 461 825	67,8	4,0	35,7
AP	Vabarna	585 456	6 464 271	81,2	4,0	31,8
AQ	Kantsiku/1	584 296	6 461 074	72,5	4,0	32,8
AR	Lohu	584 753	6 466 314	80,0	4,0	34,4
AS	Metsasalu	584 660	6 466 965	80,0	4,0	35,5
AT	Metsanurga	585 086	6 463 454	83,9	4,0	34,8
AU	Torimo-Ritsu/1	585 106	6 467 378	75,3	4,0	32,5
AV	Laiakivi	584 614	6 461 937	80,0	4,0	35,3
AW	Teeääre	584 987	6 467 468	76,7	4,0	33,0
AX	Liivause	585 593	6 463 961	80,7	4,0	31,6
AY	Vanausse	584 902	6 463 687	85,4	4,0	35,6
AZ	Soo	583 974	6 468 143	80,0	4,0	36,0
BA	Uue-Kundru	584 072	6 468 225	80,0	4,0	35,2
BB	Suur-Seamiku	584 655	6 467 856	80,0	4,0	33,8
BC	Kundru	583 501	6 468 229	80,0	4,0	37,4
BD	Salu	581 348	6 468 073	70,0	4,0	35,3
BE	Seamiku	584 662	6 467 944	79,2	4,0	33,5
BF	Tammeniidu	581 393	6 468 642	70,0	4,0	32,9
BG	Nurme	583 539	6 469 198	75,4	4,0	31,7
BH	Aasa	581 765	6 468 783	70,0	4,0	33,2
BI	Seamiku-Ansu	584 640	6 467 821	80,0	4,0	34,0
BJ	Uuesaare	583 021	6 469 272	71,6	4,0	31,8
BK	Kaasiku	581 652	6 468 749	70,0	4,0	33,1
BL	Käära	581 802	6 468 636	70,0	4,0	34,0
BM	Tänaava	581 834	6 468 806	70,0	4,0	33,2
BN	Saare	583 125	6 463 829	81,5	4,0	42,8

Distances (m)

WTG													
NSA	1	2	3	4	5	6	7	8	9	10	11	12	13
A	1121	1678	2263	1911	3597	4257	4142	4149	2872	3605	4498	4712	2329
B	1097	1288	1794	1874	4437	4834	4875	4956	2804	3486	4553	4677	2049
C	1883	2340	2906	2706	4181	5031	4825	4764	3675	4402	5332	5533	3058
D	1317	1910	2387	1591	2408	2981	2865	2920	2325	3024	3637	3941	2187
E	2691	2065	1622	2539	6116	5649	6151	6461	2622	2775	3963	3799	1995
F	1825	1919	2340	2575	5078	5559	5567	5617	3473	4126	5234	5331	2671
G	1398	1103	1325	1862	5043	5136	5345	5510	2602	3171	4348	4382	1742
H	1291	1446	1926	2058	4608	5029	5061	5133	2979	3652	4732	4848	2207

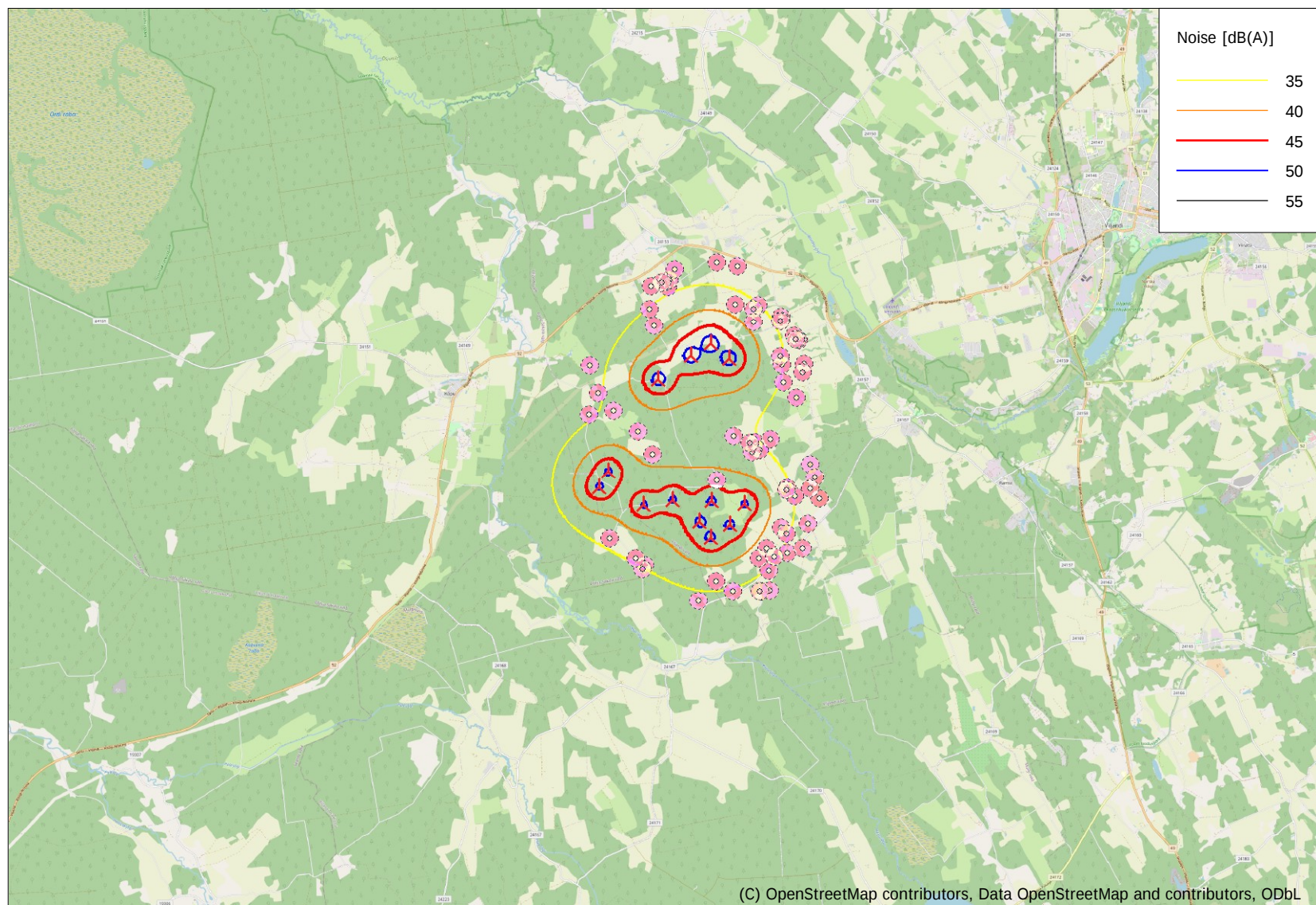
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WTG													
NSA	1	2	3	4	5	6	7	8	9	10	11	12	13
I	2204	1666	1466	2333	5822	5630	5994	6233	2744	3109	4333	4255	1937
J	1777	1513	1700	2271	5397	5539	5728	5877	2998	3546	4735	4753	2135
K	1566	2161	2636	1826	2197	2903	2710	2728	2518	3202	3750	4074	2426
L	1628	1612	1987	2312	5068	5418	5494	5584	3172	3800	4934	5010	2346
M	1666	1961	2477	2487	4584	5215	5135	5142	3441	4139	5170	5318	2718
N	1236	1098	1451	1827	4832	5027	5180	5317	2651	3268	4413	4479	1815
O	2933	2359	1780	2327	5580	4667	5371	5789	1784	1509	2522	2270	1756
P	5199	5308	5250	4551	3489	1749	2543	3065	3948	3739	2681	3042	4774
Q	1725	2227	2608	1712	1936	2366	2282	2393	2208	2836	3259	3608	2307
R	3805	4433	4937	4132	1904	3686	2862	2428	4731	5346	5593	5995	4733
S	3607	4212	4678	3827	1329	3110	2287	1870	4340	4919	5088	5501	4430
T	4332	4945	5421	4576	1782	3623	2699	2187	5085	5653	5767	6190	5179
U	4030	4080	3988	3331	3175	1378	2383	2955	2677	2473	1512	1934	3513
V	3615	4243	4749	3950	1877	3621	2832	2426	4563	5187	5462	5857	4551
W	6111	6524	6751	5844	2599	2764	2178	2035	5749	5929	5302	5751	6326
X	2246	1918	1997	2675	5881	5974	6195	6355	3322	3811	5022	5002	2460
Y	2956	3588	4107	3336	1956	3493	2851	2559	4009	4665	5051	5423	3932
Z	4609	4673	4582	3922	3392	1552	2508	3073	3268	3031	1977	2352	4107
AA	3014	2433	1851	2419	5681	4764	5471	5889	1885	1604	2598	2334	1843
AB	3231	3281	3211	2530	2914	1402	2313	2849	1920	1845	1238	1696	2734
AC	4486	4471	4312	3742	3767	1944	2942	3514	2984	2639	1492	1821	3845
AD	4320	4931	5404	4555	1735	3576	2650	2137	5057	5621	5728	6152	5158
AE	2224	1829	1835	2574	5879	5890	6153	6336	3162	3618	4836	4799	2308
AF	1541	2118	2573	1741	2167	2794	2637	2680	2403	3080	3615	3941	2344
AG	2054	1446	1102	2016	5572	5256	5678	5951	2307	2630	3853	3766	1546
AH	3474	3016	2504	2708	5385	4157	4995	5480	1842	1187	1677	1314	2279
AI	4542	5094	5484	4576	1098	2783	1784	1215	4872	5327	5203	5651	5158
AJ	2612	2613	2525	1871	3059	1887	2649	3127	1240	1283	1187	1574	2048
AK	1757	2383	2896	2140	2260	3185	2887	2830	2884	3578	4139	4462	2729
AL	5014	5342	5490	4617	2055	1351	1193	1477	4388	4499	3821	4268	5041
AM	1392	2004	2502	1734	2416	3093	2927	2948	2491	3194	3810	4115	2325
AN	1693	2213	2794	2493	3834	4688	4474	4415	3455	4189	5073	5293	2895
AO	3054	2508	1941	2394	5523	4528	5267	5703	1746	1363	2293	2018	1853
AP	1911	2510	3094	2623	3335	4357	4041	3930	3543	4277	5046	5311	3109
AQ	2222	1836	1854	2584	5874	5898	6154	6334	3181	3643	4860	4825	2325
AR	3197	3811	4294	3465	1490	3137	2417	2082	4038	4650	4914	5309	4068
AS	3804	4404	4863	4002	1290	3110	2243	1789	4487	5050	5175	5594	4604
AT	1261	1764	2343	2078	3827	4506	4386	4385	3046	3775	4701	4901	2455
AU	4317	4932	5410	4568	1804	3644	2724	2215	5084	5655	5777	6199	5171
AV	1522	1376	1682	2114	5092	5317	5459	5586	2920	3518	4677	4730	2073
AW	4371	4980	5449	4596	1718	3558	2624	2103	5086	5644	5735	6161	5198
AX	1891	2448	3033	2659	3664	4628	4351	4256	3607	4343	5176	5417	3100
AY	1148	1718	2303	1925	3537	4216	4089	4091	2883	3617	4496	4716	2357
AZ	4895	5444	5829	4920	1401	2975	1970	1399	5194	5630	5458	5911	5499
BA	4980	5535	5927	5020	1518	3103	2097	1527	5307	5749	5584	6036	5601
BB	4677	5267	5706	4826	1613	3401	2419	1861	5234	5745	5728	6167	5423
BC	4990	5508	5854	4935	1358	2676	1687	1149	5120	5502	5232	5689	5496
BD	5429	5761	5911	5037	2351	1764	1560	1750	4802	4896	4175	4616	5461
BE	4765	5354	5793	4911	1673	3448	2460	1898	5313	5821	5792	6233	5508
BF	5921	6278	6448	5564	2652	2323	1989	2045	5360	5465	4741	5179	6003
BG	5955	6477	6823	5903	2326	3454	2524	2049	6064	6416	6061	6520	6461
BH	5909	6300	6504	5605	2493	2458	1958	1901	5469	5623	4966	5413	6071
BI	4640	5229	5668	4788	1580	3372	2392	1836	5196	5708	5693	6132	5385
BJ	6077	6567	6875	5954	2420	3261	2412	2022	6031	6327	5877	6336	6490
BK	5918	6299	6493	5598	2542	2420	1967	1944	5442	5582	4904	5349	6056
BL	5759	6148	6352	5454	2358	2314	1807	1762	5320	5480	4836	5284	5920
BM	5907	6304	6514	5613	2467	2486	1958	1880	5489	5652	5008	5455	6083
BN	922	1165	1440	524	3057	2920	3186	3431	1196	1919	2714	2947	1117



DECIBEL -
Map Highest noise value
Calculation:
Müra_Alad11_106 dB_ala12_108dB_Saare elamuga

Licensed user:
Lemma OÜ
Värvi 5 - A308
EE-10621 Tallinn
+3725059914
Piret Toonpere / piret@lemma.ee
Calculated:
14.01.2025 09:53/4.0.424

New WTG

Map: EMD OpenStreetMap , Print scale 1:150 000, Map center Estonian Lambert L-EST97-EST97 (EE) East: 582 014 North: 6 464 824

Noise sensitive area

Noise calculation model: ISO 9613-2 General. Wind speed: Highest noise value
Height above sea level from active line object