

DECIBEL - Main Result

Calculation: Mura_Vestas_V172_107,8dB+2dB_18052025

Noise calculation model:

ISO 9613-2 General

Wind speed (at 10 m height):

Highest noise value

Ground attenuation:

General, Ground factor: 0,5

Meteorological coefficient, C0:

Selected option: All receptors downwind of all wind turbines (Cmet = 0)

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

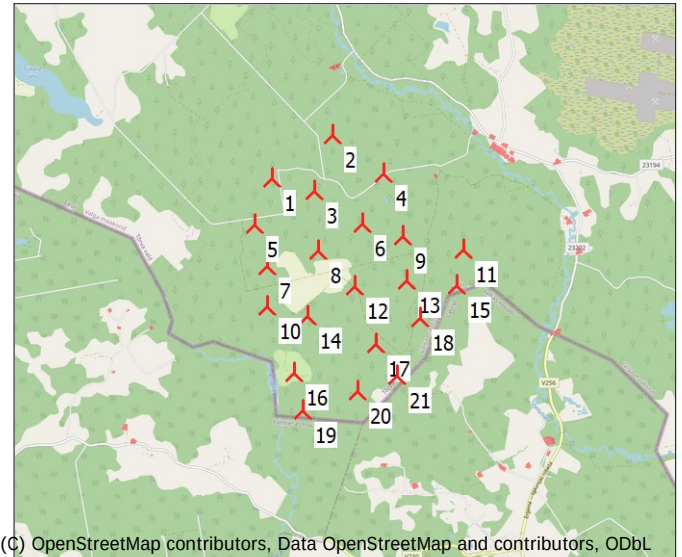
Uncertainty margin:

Uncertainty added to source noise level of the WTGs in the calculation

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)

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)]	Uncertainty [dB(A)]
				Valid	Manufact.				Creator	Name			
		[m]											
1	599 374	6 423 251	97,6 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
2	600 375	6 423 982	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
3	600 077	6 423 076	93,8 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
4	601 226	6 423 379	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
5	599 108	6 422 477	90,8 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
6	600 903	6 422 551	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
7	599 334	6 421 821	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
8	600 172	6 422 074	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
9	601 572	6 422 362	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
10	599 346	6 421 133	88,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
11	602 579	6 422 166	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
12	600 796	6 421 505	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
13	601 640	6 421 636	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
14	600 016	6 420 989	88,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
15	602 495	6 421 568	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
16	599 818	6 420 055	80,9 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
17	601 163	6 420 566	89,9 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
18	601 897	6 421 003	90,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
19	599 965	6 419 437	80,0 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
20	600 884	6 419 773	85,5 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0
21	601 535	6 420 032	89,9 VESTAS V172-7.2 7200 1...Yes	VESTAS	V172-7.2-7 200	7 200	172,0	166,0	USER	PO7200 - 2024-11	7,0	107,8	2,0

Calculation Results

Sound level

Noise sensitive area		East	North	Z	Immission height	Demands		Sound level		WTG+Uncertainty margin	Distance to noise demand [m]	Demands fulfilled ?	
No.	Name					Noise	From WTGs	Uncertainty margin				Noise	
				[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB(A)]				
Ellemäe	Noise sensitive area: User defined (75)	603 147	6 423 741	81,4	4,0	40,0	35,9	2,0	37,9		425	Yes	
Elli	Noise sensitive area: User defined (78)	603 206	6 423 881	83,2	4,0	40,0	35,3	2,0	37,3		569	Yes	
Holdre kordon	Noise sensitive area: Demands defined in calculation setup. (48)	604 108	6 420 818	86,0	4,0	40,0	35,0	2,0	37,0		575	Yes	
Holdre mõis	Noise sensitive area: User defined (74)	602 969	6 423 865	81,4	4,0	40,0	36,1	2,0	38,1		400	Yes	
Jaanimäe	Noise sensitive area: User defined (76)	603 207	6 423 702	80,8	4,0	40,0	35,8	2,0	37,8		435	Yes	
Lindmäe	Noise sensitive area: Demands defined in calculation setup. (53)	603 301	6 423 760	82,6	4,0	40,0	35,4	2,0	37,4		540	Yes	
Luhe	Noise sensitive area: User defined (73)	600 408	6 425 096	90,0	4,0	40,0	37,1	2,0	39,1		123	Yes	
LV_Aizupes	Noise sensitive area: User defined (88)	597 230	6 418 854	80,0	4,0	40,0	31,4	2,0	33,4		1 558	Yes	
LV_Andreni	Noise sensitive area: User defined (84)	603 968	6 419 077	84,5	4,0	40,0	32,3	2,0	34,3		1 326	Yes	
LV_Apsinas	Noise sensitive area: User defined (87)	602 739	6 419 152	87,6	4,0	40,0	36,4	2,0	38,4		297	Yes	
LV_Attekas	Noise sensitive area: User defined (83)	604 054	6 418 852	84,1	4,0	40,0	31,6	2,0	33,6		1 524	Yes	
LV_Cesnieki	Noise sensitive area: User defined (89)	597 076	6 419 130	81,7	4,0	40,0	31,4	2,0	33,4		1 584	Yes	
LV_Dzintari	Noise sensitive area: User defined (92)	597 052	6 421 010	90,0	4,0	40,0	33,6	2,0	35,6		966	Yes	
LV_Gundegas	Noise sensitive area: User defined (86)	601 305	6 418 583	80,0	4,0	40,0	37,9	2,0	39,9		12	Yes	
LV_Lejasumpuli	Noise sensitive area: User defined (90)	596 841	6 419 991	90,0	4,0	40,0	31,9	2,0	33,9		1 463	Yes	
LV_Medni	Noise sensitive area: User defined (81)	602 900	6 418 460	82,6	4,0	40,0	33,6	2,0	35,6		902	Yes	

To be continued on next page...

DECIBEL - Main Result

Calculation: Mura_Vestas_V172_107,8dB+2dB_18052025

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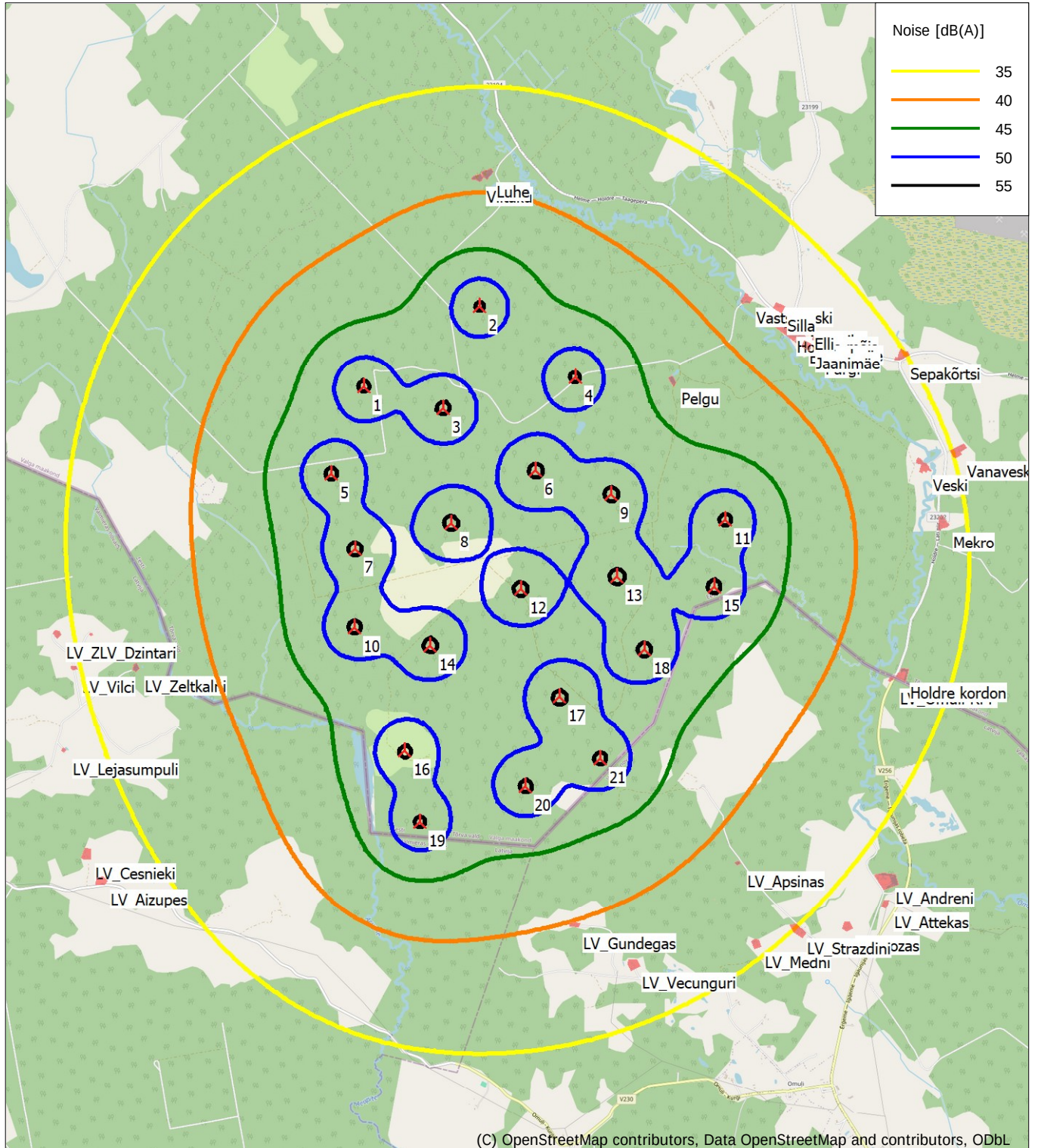
Noise sensitive area					Demands		Sound level			Demands fulfilled ?	
No.	Name	East	North	Z	Immission height	Noise	From WTGs	Uncertainty margin	WTG+Uncertainty margin	Distance to noise demand	Noise
					[m]	[dB(A)]	[dB(A)]	[dB]	[dB(A)]	[m]	
LV_Omuli RPP	Noise sensitive area: User defined (79)	604 040	6 420 788	80,6	4,0	40,0	35,2	2,0	37,2	523	Yes
LV_Rozas	Noise sensitive area: User defined (82)	603 714	6 418 652	85,4	4,0	40,0	32,0	2,0	34,0	1 367	Yes
LV_Strazdini	Noise sensitive area: User defined (80)	603 237	6 418 615	84,6	4,0	40,0	33,2	2,0	35,2	1 027	Yes
LV_Vecunguri	Noise sensitive area: User defined (85)	601 828	6 418 274	82,9	4,0	40,0	35,4	2,0	37,4	485	Yes
LV_Vilci	Noise sensitive area: User defined (94)	596 922	6 420 706	90,0	4,0	40,0	32,9	2,0	34,9	1 162	Yes
LV_Zeltkalni	Noise sensitive area: User defined (91)	597 464	6 420 724	90,0	4,0	40,0	35,0	2,0	37,0	635	Yes
LV_Zimelnieki	Noise sensitive area: User defined (93)	596 772	6 421 004	90,0	4,0	40,0	32,6	2,0	34,6	1 241	Yes
Mekro	Noise sensitive area: Demands defined in calculation setup. (49)	604 447	6 422 126	83,2	4,0	40,0	34,1	2,0	36,1	727	Yes
Männiku	Noise sensitive area: Demands defined in calculation setup. (52)	603 159	6 423 907	83,0	4,0	40,0	35,4	2,0	37,4	557	Yes
Pargi	Noise sensitive area: User defined (77)	603 278	6 423 652	81,3	4,0	40,0	35,8	2,0	37,8	442	Yes
Pelgu	Noise sensitive area: User defined (95)	602 052	6 423 371	90,0	4,0	40,0	41,5	2,0	43,5	-594	No
Sepakõrtsi	Noise sensitive area: Demands defined in calculation setup. (51)	604 023	6 423 604	87,9	4,0	40,0	33,4	2,0	35,4	933	Yes
Silla	Noise sensitive area: Demands defined in calculation setup. (55)	602 950	6 424 034	83,0	4,0	40,0	35,6	2,0	37,6	509	Yes
Vanaveski	Noise sensitive area: Demands defined in calculation setup. (50)	604 535	6 422 818	85,3	4,0	40,0	33,1	2,0	35,1	972	Yes
Vastseveski	Noise sensitive area: Demands defined in calculation setup. (56)	602 675	6 424 067	80,5	4,0	40,0	36,3	2,0	38,3	338	Yes
Veski	Noise sensitive area: User defined (98)	604 268	6 422 631	80,0	4,0	40,0	34,4	2,0	36,4	658	Yes
Viitaku	Noise sensitive area: User defined (96)	600 344	6 425 072	90,0	4,0	40,0	37,3	2,0	39,3	100	Yes

Distances (m)

NSA	WTG																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Ellemäe	3804	2782	3141	1955	4231	2540	4268	3409	2093	4609	1663	3244	2588	4168	2253	4965	3743	3003	5351	4566	4035
Elli	3882	2832	3230	2042	4330	2658	4384	3530	2230	4736	1816	3383	2736	4304	2408	5108	3890	3154	5498	4713	4187
Holdre kordon	5319	4878	4616	3838	5266	3640	4876	4130	2964	4770	2023	3381	2599	4094	1778	4355	2954	2218	4365	3388	2689
Holdre mõis	3646	2596	2997	1809	4102	2448	4169	3320	2051	4536	1674	3207	2587	4121	2269	4943	3742	3009	5348	4566	4043
Jaanimäe	3859	2845	3191	2007	4277	2575	4305	3444	2114	4637	1654	3261	2593	4188	2238	4977	3743	2998	5356	4563	4028
Lindmäe	3959	2934	3295	2109	4384	2685	4414	3553	2223	4747	1750	3370	2696	4296	2335	5084	3842	3093	5459	4661	4124
Luhe	2114	1114	2046	1901	2923	2592	3445	3030	2970	4101	3645	3610	3671	4124	4097	5073	4591	4354	5674	5342	5186
LV_Aizupes	4875	6003	5083	6034	4066	5209	3630	4360	5580	3109	6289	4442	5212	3509	5921	2852	4288	5136	2795	3766	4462
LV_Andreni	6205	6078	5577	5100	5929	4631	5383	4834	4064	5057	3386	3993	3458	4388	2893	4262	3174	2827	4017	3160	2612
LV_Apsinas	5301	5373	4740	4482	4921	3860	4324	3888	3409	3927	3004	3050	2712	3283	2415	3056	2116	2029	2787	1955	1490
LV_Attekas	6421	6311	5800	5336	6130	4857	5574	5043	4297	5229	3626	4200	3683	4567	3131	4398	3360	3045	4118	3296	2780
LV_Cesnieki	4717	5866	4956	5938	3914	5132	3512	4271	5536	3027	6283	4412	5205	3478	5941	2893	4331	5171	2905	3861	4548
LV_Dzintari	3220	4451	3658	4795	2521	4146	2421	3296	4717	2297	5645	3776	4629	2963	5470	2926	4134	4844	3310	4026	4587
LV_Gundegas	5050	5477	4656	4793	4469	3987	3789	3669	3782	3214	3775	2965	3063	2729	3183	2091	1987	2473	1588	1262	1457
LV_Lejasumpuli	4127	5329	4469	5539	3363	4799	3091	3927	5290	2752	6134	4233	5071	3327	5867	2976	4358	5154	3171	4047	4692
LV_Medni	5946	6062	5405	5183	5523	4544	4899	4527	4109	4446	3699	3699	3406	3835	3115	3470	2729	2723	3093	2406	2082
LV_Omuli RPP	5274	4858	4575	3822	5212	3597	4817	4075	2926	4705	2005	3321	2545	4028	1730	4284	2885	2153	4292	3314	2616
LV_Rozas	6321	6287	5725	5340	5985	4805	5404	4923	4282	5021	3691	4079	3632	4373	3159	4139	3188	2970	3822	3043	2578
LV_Strazdini	6033	6081	5466	5170	5652	4575	5050	4621	4099	4634	3610	3782	3417	4001	3044	3709	2847	2738	3373	2622	2215
LV_Vecunguri	5547	5888	5109	5138	5004	4374	4334	4143	4094	3784	3946	3390	3366	3263	3343	2684	2385	2725	2195	1771	1781
LV_Vilci	3519	4745	3934	5057	2801	4382	2652	3521	4932	2461	5840	3954	4807	3106	5637	2967	4242	4982	3296	4069	4660
LV_Zeltkalni	3143	4348	3500	4595	2384	3892	2164	3025	4421	1925	5313	3421	4273	2565	5099	2446	3701	4440	2812	3548	4128
LV_Zimelnieki	3426	4663	3894	5043	2755	4409	2688	3563	4986	2576	5920	4053	4907	3243	5749	3189	4411	5123	3555	4291	4859
Mekro	5173	4430	4450	3418	5345	3559	5120	4273	2879	5195	1867	3702	2848	4573	2029	5069	3634	2785	5225	4268	3585
Männiku	3840	2784	3190	2003	4294	2631	4355	3503	2214	4713	1825	3368	2731	4287	2419	5097	3890	3160	5492	4717	4194
Pargi	3923	2921	3251	2070	4331	2617	4347	3483	2138	4668	1641	3281	2597	4210	2222	4989	3740	2986	5359	4557	4016
Pelgu	2676	1771	1995	821	3076	1411	3128	2283	1084	3505	1248	2224	1738	3116	1792	3972	2900	2319	4421	3740	3328
Sepakõrtsi	4661	3667	3980	2805	5041	3292	5015	4143	2747	5288	2037	3849	3090	4783	2545	5501	4171	3358	5815	4951	4352
Silla	3659	2575	3027	1843	4144	2527	4238	3398	2166	4625	1874	3321	2726	4227	2475	5062	3892	3188	5479	4724	4224
Vanaveski	5177	4318	4464	3355	5436	3640	5294	4424	2997	5453	2061	3961	3126	4873	2387	5460	4047	3194	5675	4742	4079
Vastseveski	3392	2289	2776	1602	3901	2331	4025	3199	2030	4436	1903	3176	2641	4066	2505	4924	3812	3160	5363	4651	4192
Veski	4893	4062	4177	3083	5137	3341	4987	4119	2693	5143	1750	3648	2809	4556	2066	5140	3727	2875	5357	4427	3770
Viitaku	2049	1090	2013	1908	2862	2581	3401	3002	2974	4062	3662	3594	3671	4095	4109	5043	4578	4354	5646	5324	5177

DECIBEL - Map Highest noise value

Calculation: Mūra_Vestas_V172_107,8dB+2dB_18052025



0 500 1000 1500 2000 m

Map: EMD OpenStreetMap, Print scale 1:50 000, Map center Estonian Lambert L-EST97-EST97 (EE) East: 600 844 North: 6 421 709
 New WTG Noise sensitive area
 Noise calculation model: ISO 9613-2 General. Wind speed: Highest noise value
 Height above sea level from active line object