

Project:

Nordex N163 - 7.0 MW kumulativa ietekme

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SIA Estonian, Latvian &amp; Lithuanian environment

Vilandes 3-6

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Calculated:

08/04/2025 11:22 am/4.0.547

## DECIBEL - Main Result

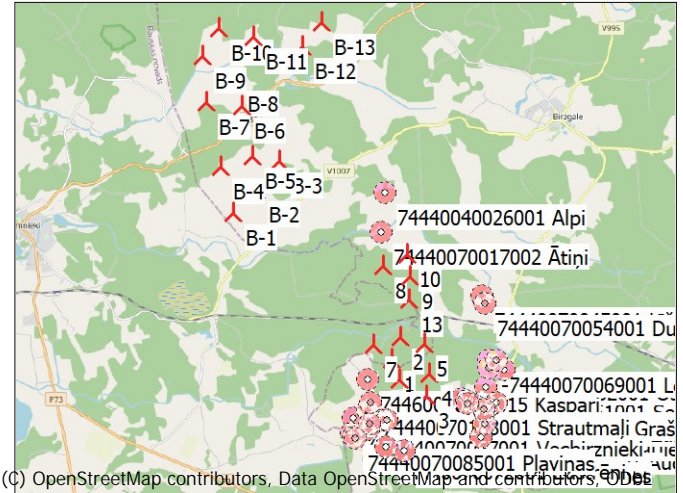
Calculation: Nordex N163-7.0 MW ST kumulativa ietekme

Noise calculation model:

Danish low frequency 2019

The calculation is based on "BEK nr 135 af 07/02/2019" from the Danish Environmental Agency.

All coordinates are in  
Geo [deg]-WGS84



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## WTGs

	Longitude	Latitude	Z	Row data/Description	WTG type			Power, rated	Rotor diameter	Hub height	Noise data		First wind speed [m/s]	LwaRef [dB(A)]	Last wind speed [m/s]	LwaRef [dB(A)]
					Valid	Manufact.	Type-generator				Creator	Name				
			[m]					[kW]	[m]	[m]						
1	24.683333° E	56.574164° N	42.3	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
10	24.689630° E	56.599428° N	44.5	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
13	24.690575° E	56.588690° N	43.4	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
2	24.686987° E	56.579459° N	43.2	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
3	24.697939° E	56.565818° N	41.6	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
4	24.699192° E	56.571013° N	41.8	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
5	24.697148° E	56.577937° N	43.0	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
6	24.686227° E	56.569458° N	43.2	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
7	24.675284° E	56.577743° N	42.8	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
8	24.679266° E	56.596513° N	44.5	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
9	24.691184° E	56.594057° N	43.3	NORDEX N163/6.X 7000 163....	Yes	NORDEX	N163/6.X-7,000	7,000	163.0	169.0	USER	Nordex N163-7.0 MW ST	6.0	98.2 f	8.0	98.4 f
B-1	24.614440° E	56.608990° N	36.3	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-10	24.608357° E	56.653048° N	34.5	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-11	24.623548° E	56.650977° N	35.4	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-12	24.644449° E	56.648566° N	44.8	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-13	24.652537° E	56.654276° N	48.5	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-2	24.624570° E	56.614775° N	39.8	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-3	24.634337° E	56.621506° N	40.4	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-4	24.609248° E	56.619883° N	41.8	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-5	24.622763° E	56.622646° N	40.4	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-6	24.618328° E	56.634591° N	35.8	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-7	24.602836° E	56.635305° N	33.6	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-8	24.615387° E	56.641023° N	34.4	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f
B-9	24.601146° E	56.646401° N	33.5	VESTAS V172-7.2 7200 172.0...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	166.0	USER	Vestas V172-7.2MW STE	6.0	98.7 f	8.0	98.9 f

f) From other hub height

## Calculation Results

### Sound level

Noise sensitive area No.	Name	Longitude	Latitude	Z	Immission height	Wind speed	Demands Noise	Sound level From WTGs
				[m]	[m]	[m/s]	[dB(A)]	[dB(A)]
74440040026001 Alpi	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (30)	24.679931° E	56.614005° N	48.3	1.5	6.0	20.0	13.0
74440040026001 Alpi						8.0	20.0	13.2
74440070002001 Straumes						6.0	20.0	15.5
74440070002001 Straumes	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (2)	24.679540° E	56.560043° N	40.7	1.5	6.0	20.0	15.7
74440070004001 Beikapi						8.0	20.0	15.2
74440070004001 Beikapi						6.0	20.0	15.4
74440070017002 Atini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (15)	24.715484° E	56.564502° N	50.3	1.5	6.0	20.0	17.0
74440070017002 Atini						8.0	20.0	17.2
74440070017002 Atini						6.0	20.0	11.5
74440070029001 Audzespieduri	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (24)	24.721594° E	56.555833° N	48.4	1.5	6.0	20.0	11.7
74440070029001 Audzespieduri						8.0	20.0	12.0
74440070036001 Pieduri						6.0	20.0	12.2
74440070036001 Pieduri	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (23)	24.723413° E	56.558960° N	46.4	1.5	6.0	20.0	13.6
74440070044001 Salaskalni						8.0	20.0	13.8
74440070044001 Salaskalni						6.0	20.0	13.4
74440070045001 Licupes	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (16)	24.725153° E	56.574033° N	55.1	1.5	6.0	20.0	13.6
74440070045001 Licupes						8.0	20.0	13.6
74440070051001 Senci						6.0	20.0	13.6
74440070051001 Senci	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (29)	24.722380° E	56.589348° N	49.3	1.5	6.0	20.0	13.6
74440070051001 Senci						8.0	20.0	13.6
74440070051001 Senci						6.0	20.0	13.6

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## DECIBEL - Main Result

Calculation: Nordex N163-7.0 MW ST kumulativa ietekme

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Noise sensitive area No.	Name	Longitude	Latitude	Z	Immission height [m]	Wind speed [m/s]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]
74440070053001	Rogas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (13)	24.728487° E	56.564071° N	53.6	1.5	6.0	20.0
74440070053001	Rogas						8.0	20.0
74440070054001	Duburi	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (22)	24.723372° E	56.587714° N	51.1	1.5	6.0	20.0
74440070054001	Duburi						8.0	20.0
74440070059001	Zarini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (8)	24.722881° E	56.562498° N	55.4	1.5	6.0	20.0
74440070059001	Zarini						8.0	20.0
74440070062001	OS i	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (5)	24.725073° E	56.572362° N	62.7	1.5	6.0	20.0
74440070062001	OS i						8.0	20.0
74440070067001	Vecbirznieki	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (1)	24.673572° E	56.558966° N	43.0	1.5	6.0	20.0
74440070067001	Vecbirznieki						8.0	20.0
74440070069001	Lejieš i	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (18)	24.728463° E	56.574136° N	63.2	1.5	6.0	20.0
74440070069001	Lejieš i						8.0	20.0
74440070070001	Silini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (3)	24.731606° E	56.571851° N	58.7	1.5	6.0	20.0
74440070070001	Silini						8.0	20.0
74440070072001	Zustreni	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (11)	24.680823° E	56.553600° N	41.5	1.5	6.0	20.0
74440070072001	Zustreni						8.0	20.0
74440070083001	Rukmuli	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (28)	24.723215° E	56.561773° N	55.4	1.5	6.0	20.0
74440070083001	Rukmuli						8.0	20.0
74440070085001	Plavinas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (27)	24.667528° E	56.555697° N	43.1	1.5	6.0	20.0
74440070085001	Plavinas						8.0	20.0
74440070090001	Graš ini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (7)	24.715647° E	56.563754° N	52.9	1.5	6.0	20.0
74440070090001	Graš ini						8.0	20.0
74440070096001	Pienenes	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (21)	24.688843° E	56.552739° N	41.9	1.5	6.0	20.0
74440070096001	Pienenes						8.0	20.0
74440070121001	Klavas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (6)	24.665511° E	56.556646° N	42.3	1.5	6.0	20.0
74440070121001	Klavas						8.0	20.0
74440070133001	Jaunstamuri	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (19)	24.680973° E	56.560106° N	40.8	1.5	6.0	20.0
74440070133001	Jaunstamuri						8.0	20.0
74440070164001	Porini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (26)	24.713437° E	56.565015° N	51.6	1.5	6.0	20.0
74440070164001	Porini						8.0	20.0
74440070177001	Zviedri	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (17)	24.666479° E	56.555859° N	42.7	1.5	6.0	20.0
74440070177001	Zviedri						8.0	20.0
74440070186001	Apseni	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (12)	24.673055° E	56.562124° N	41.8	1.5	6.0	20.0
74440070186001	Apseni						8.0	20.0
74440070188001	Strautmalī	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (14)	24.673876° E	56.564090° N	42.2	1.5	6.0	20.0
74440070188001	Strautmalī						8.0	20.0
74440070195015	Kaspari	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (25)	24.672503° E	56.569505° N	43.4	1.5	6.0	20.0
74440070195015	Kaspari						8.0	20.0
74440070206001	Jaunbirznieki	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (10)	24.673283° E	56.557548° N	41.5	1.5	6.0	20.0
74440070206001	Jaunbirznieki						8.0	20.0
74440070252001	Jaunvilni	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (4)	24.666836° E	56.560453° N	40.9	1.5	6.0	20.0
74440070252001	Jaunvilni						8.0	20.0
74440070333001	Priež lejas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (31)	24.722406° E	56.564012° N	52.9	1.5	6.0	20.0
74440070333001	Priež lejas						8.0	20.0

## Distances (m)

NSA	WTG	1	2	3	4	5	6	7	8	9	10	13	B-1	B-10	B-11	B-12	B-13	B-2	B-3	B-4	B-5	B-6	B-7
74440040026001	Alpi	4441	3871	5478	4931	4152	4975	4047	1948	2326	1729	2893	4059	6179	5377	4421	4788	3400	2921	4388	3639	4421	5293
74440070002001	Straumes	1589	2210	1301	1718	2267	1126	1988	4060	3854	4429	3261	6760	11240	10692	10089	10622	6967	7385	7939	7794	9112	9613
74440070004001	Beikapi	2250	2417	1088	1236	1873	1881	2877	4202	3613	4200	3098	7942	11851	11161	10326	10716	7907	8070	8978	8622	9823	10488
74440070017002	Atini	3391	2836	4468	3937	3169	3930	2987	891	1395	879	1907	3975	6915	6181	5336	5768	3513	3315	4593	3982	4994	5781
74440070029001	Audzspieduri	3114	3383	1830	2180	2883	2651	3749	5223	4648	5236	4125	8853	12865	12184	11359	11752	8865	9066	9924	9602	10822	11467
74440070036001	Pieduri	2989	3197	1742	2004	2659	2567	3623	4984	4381	4961	3877	8709	12635	11940	11092	11470	8689	8856	9757	9408	10609	11274
74440070044001	Salaskalni	2570	2422	1906	1631	1775	2446	3092	3770	3054	3572	2679	7836	11349	10597	9665	9984	7665	7684	8760	8297	9407	10147
74440070045001	Licupes	2935	2437	3020	2489	2004	3137	3169	2766	1987	2303	1955	6981	9964	9159	8146	8404	6640	6484	7734	7153	8135	8947
74440070051001	Senci	2583	2609	1597	1551	1991	2311	3179	4213	3550	4106	3099	8136	11851	11126	10235	10584	8034	8125	9120	8710	9866	10571
74440070053001	Rogas	2994	3073	1888	1960	2468	2666	3607	4711	4050	4604	3597	8608	12351	11625	10730	11073	8522	8622	9605	9203	10364	11066
74440070054001	Duburi	2886	2417	2896	2380	1944	3056	3156	2881	2100	2449	2018	7097	10137	9336	8329	8592	6774	6637	7870	7300	8296	9102
74440070059001	Zarini	2756	2904	1577	1737	2336	2383	3382	4639	4017	4591	3528	8437	12292	11586	10725	11094	8388	8529	9463	9092	10279	10957
74440070062001	OS i	2573	2470	1820	1598	1825	2409	3118	3892	3189	3718	2792	7926	11491	10745	9823	10149	7772	7810	8866	8416	9538	10269
74440070067001	Vecbirznieki	1795	2426	1681	2069	2562	1404	2093	4195	4054	4612	3470	6650	11214	10695	10135	10690	6905	7368	7850	7747	9078	9545
74440070069001	Lejieš i	2773	2617	2092	1832	1970	2648	3293	3917	3188	3691	2836	6771	11432	10947	10436	11014	7087	7605	7993	7945	9289	9713
74440070070001	Silini	2978	2870	2176	1994	2223	2802	3523	4228	3504	4010	3142	8301	11789	11028	10079	10382	8128	8140	9224	8756	9858	10604
74440070072001	Zustreni	2295	2904	1720	2244	2889	1797	2710	4779	4549	5131	3953	7394	11933	11398	10807	11343	7638	8082	8591	8475	9800	10281
74440070083001	Rukmuli	2813	2972	1618	1800	2410	2429	3441	4717	4098	4673	3606	8503	12370	11666	10806	11176	8459	8604	9533	9166	10355	11031
74440070085001	Plavinas	2274	2903	2183	2588	3073	1915	2500	4601	4511	5055	3937	6771	11432	10947	10436	11014	7087	7605	7993	7945	9289	9713
74440070090001	Graš ini	2300	2482	1112	1295	1946	1917	2929	4278	3693	4281	3175	8002	11926	11238	10406	10798	7973	8142	9043	8692	9896	10558
74440070096001	Pienenes	2409	2977	1560	2132	2852	1868	2906	4909	4602	5198	4004	7754	12213	11649	11012	11523	7956	8356	8933	8778	10090	10603
74440070121001	Klavas	2237	2862	2240	2616	3066	1912	2424	4518	4454	4988	3886	6619	11292	10814	10315	10899	6944	7471	7843	7803	9149	9566
74440070133001	Jaunstamuri	1572	2186	1222	1652	2220	1090	1995	4055	3832	4410	3237	6807	11268	10714	10101	10629	7004	7412	7982	7828	9142	9650
74440070164001	Porini	2112	2287	957	1101	1753	1744	2740	4087	3511	4101	2987	7808	11734	11048	10221	10618	7778	7948	8847	8497	9702	10362
74440070177001	Zviedri	2286	2914	2229	2625	3098	1941	2496	4594	4516	5055	3944	6724	11394	10913	10410	10991	7047	7571	7948	7906	9251	9671
74440070186001	Apseni	1482	2111	1584	1887	2301	1150	1744	3848	3726	4276	3148	6340	10875	10349	9783	10337	6575	7026	7531	7413	8740	9219
74440070188001	Strautmalī	1263	1891	1492	1736	2103	966	1523	3625	3502	4052	2925	6191	10690	10155	9577	10126	6405	6838	7372	7326	8559	9050
74440070195015	Kaspari	844	1421	1616	1649	1782	844	933	3036	2965	3494	2407	5661	10101	9556	8969	9517	5837	6246	6823	6659	9714	8484
74440070206001	Jaunbirznieki	1950	2581	1773	2187	2703	1546	2252	4354	4211	4770	3626	6773	11356	10841	10287	10844	7039	7512	7978	7884	9218	9678
74440070252001	Jaunvilni	1833	2452	2003	2310	2695	1558	1994	4087	4029	4560	3466	6290	10917	10423	9906	10483	6582	7084	7503	7435	8775	9214
74440070333001	Priež lejas	2654	2774	1517	1626	2194	2305	3275	4486	3856	4427	3373	8311	12137	11428	10561	10927	8250	8381	9328	8949	10129	10813

Project:

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Calculated:

08/04/2025 11:22 am/4.0.547

## DECIBEL - Main Result

Calculation: Nordex N163-7.0 MW ST kumulativa ietekme

NSA	WTG	
	B-8	B-9
74440040026001 Alpi	4974	6032
74440070002001 Straumes	9839	10753
74440070004001 Beikapi	10506	11508
74440070017002 Atini	5622	6663
74440070029001 Audzespleduri	11511	12506
74440070036001 Pieduri	11291	12294
74440070044001 Salaskalni	10053	11085
74440070045001 Licupes	8732	9784
74440070051001 Senci	10530	11550
74440070053001 Rogas	11029	12048
74440070054001 Duburi	8898	9949
74440070059001 Zarini	10955	11964
74440070062001 Oš i	10188	11218
74440070067001 Vecbirznieki	9810	10703
74440070069001 Lejšeš i	10181	11218
74440070070001 Silini	10499	11535
74440070072001 Zustreni	10530	11432
74440070083001 Rukmuli	11032	12040
74440070085001 Plavinas	10025	10891
74440070090001 Graš ini	10579	11580
74440070096001 Pienenes	10815	11737
74440070121001 Klavas	9886	10746
74440070133001 Jaunstamuri	9868	10786
74440070164001 Porini	10386	11386
74440070177001 Zviedri	9988	10850
74440070186001 Apseni	9471	10370
74440070188001 Strautmali	9288	10195
74440070195015 Kaspari	8701	9617
74440070206001 Jaunbirznieki	9951	10839
74440070252001 Jaunvilni	9511	10385
74440070333001 Priež lejas	10803	11815