

Project:

Nordex N163 - 7.0 MW

Licensed user:

SIA Estonian, Latvian & Lithuanian environment

Vilandes 3-6

LV-1010 Riga

0037167242411

Kristiana / kristiana@environment.lv

Calculated:

04/04/2025 5:12 pm/4.0.547

DECIBEL - Main Result

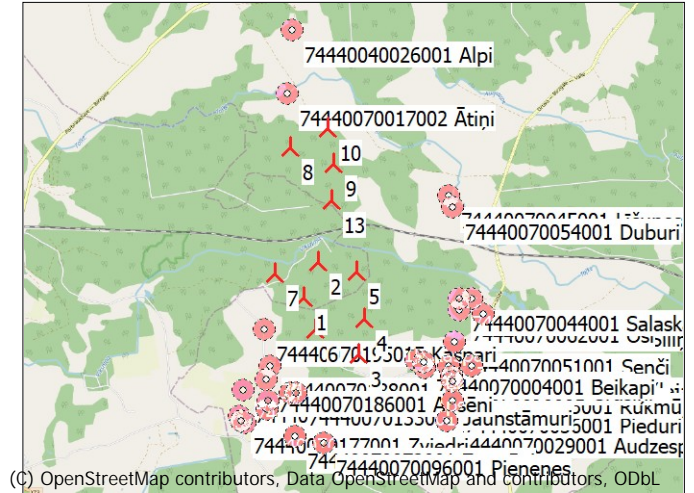
Calculation: Nordex N163-7.0 MW ST

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



New WTG

Scale 1:125,000
Noise sensitive area

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	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	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	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	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	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	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	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	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	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	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	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

f) From other hub height

Calculation Results

Sound level

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)]
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	11.4
74440040026001 Alpi				40.7	1.5	8.0	20.0	11.6
74440070002001 Straumes				40.7	1.5	8.0	20.0	15.4
74440070002001 Straumes	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (15)	24.715484° E	56.564502° N	50.3	1.5	6.0	20.0	15.1
74440070004001 Beikapi				50.3	1.5	8.0	20.0	15.3
74440070004001 Beikapi				46.1	1.5	8.0	20.0	16.5
74440070017002 Atini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (20)	24.678672° E	56.604511° N	46.1	1.5	6.0	20.0	16.7
74440070017002 Atini				48.4	1.5	8.0	20.0	11.2
74440070029001 Audzespieduri				48.4	1.5	8.0	20.0	11.4
74440070029001 Audzespieduri	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (23)	24.723413° E	56.558960° N	46.4	1.5	6.0	20.0	11.7
74440070036001 Pieduri				46.4	1.5	8.0	20.0	11.9
74440070036001 Pieduri				55.1	1.5	6.0	20.0	13.4
74440070044001 Salaskalni	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (16)	24.725153° E	56.574033° N	55.1	1.5	8.0	20.0	13.6
74440070044001 Salaskalni				49.3	1.5	6.0	20.0	13.1
74440070045001 Licupes				49.3	1.5	8.0	20.0	13.3
74440070051001 Senci	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (9)	24.723694° E	56.567693° N	59.9	1.5	6.0	20.0	13.4
74440070051001 Senci				59.9	1.5	8.0	20.0	13.6
74440070053001 Rogas				53.6	1.5	6.0	20.0	11.8
74440070053001 Rogas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (13)	24.728487° E	56.564071° N	53.6	1.5	8.0	20.0	12.0
74440070054001 Duburi				51.1	1.5	6.0	20.0	13.1
74440070054001 Duburi				51.1	1.5	8.0	20.0	13.2
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	12.7
74440070059001 Zarini				55.4	1.5	8.0	20.0	12.9
74440070062001 OS i				62.7	1.5	6.0	20.0	13.4
74440070062001 OS i	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (5)	24.725073° E	56.572362° N	62.7	1.5	8.0	20.0	13.6
74440070067001 Vecbirznieki				43.0	1.5	6.0	20.0	13.9
74440070067001 Vecbirznieki				43.0	1.5	8.0	20.0	14.1
74440070069001 Lejšeš 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	12.6
74440070069001 Lejšeš i				63.2	1.5	8.0	20.0	12.8
74440070069001 Lejšeš i								

To be continued on next page...

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DECIBEL - Main Result

Calculation: Nordex N163-7.0 MW ST

...continued from previous page

No.	Name	Longitude	Latitude	Z	Immission height [m]	Wind speed [m/s]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]
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	11.9
74440070070001 Silini						8.0	20.0	12.1
74440070072001 Zustrēni	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (11)	24.680823° E	56.553600° N	41.5	1.5	6.0	20.0	12.5
74440070072001 Zustrēni						8.0	20.0	12.7
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	12.4
74440070083001 Rukmuli						8.0	20.0	12.6
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	11.9
74440070085001 Plavinas						8.0	20.0	12.1
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	14.8
74440070090001 Graš ini						8.0	20.0	15.0
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	12.6
74440070096001 Pienenes						8.0	20.0	12.8
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	11.9
74440070121001 Klavas						8.0	20.0	12.1
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	15.6
74440070133001 Jaunstamuri						8.0	20.0	15.8
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	15.9
74440070164001 Porini						8.0	20.0	16.1
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	11.8
74440070177001 Zviedri						8.0	20.0	12.0
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	15.2
74440070186001 Apseni						8.0	20.0	15.4
74440070188001 Strautmali	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (14)	24.673876° E	56.564090° N	42.2	1.5	6.0	20.0	16.3
74440070188001 Strautmali						8.0	20.0	16.5
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	18.4
74440070195015 Kaspari						8.0	20.0	18.6
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	13.3
74440070206001 Jaunbirznieki						8.0	20.0	13.5
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	13.4
74440070252001 Jaunvilni						8.0	20.0	13.6
74440070333001 Priēž 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	13.1
74440070333001 Priēž lejas						8.0	20.0	13.3

Distances (m)

NSA	WTG										
	1	2	3	4	5	6	7	8	9	10	13
74440040026001 Alpi	4441	3871	5478	4931	4152	4975	4047	1948	2326	1729	2893
74440070002001 Straumes	1589	2210	1301	1718	2267	1126	1988	4060	3854	4429	3261
74440070004001 Beikapi	2250	2417	1088	1236	1873	1881	2877	4202	3613	4200	3098
74440070017002 Atini	3391	2836	4468	3937	3169	3930	2987	891	1395	879	1907
74440070029001 Audzespieduri	3114	3383	1830	2180	2883	2651	3749	5223	4648	5236	4125
74440070036001 Pieduri	2989	3197	1742	2004	2659	2567	3623	4984	4381	4961	3877
74440070044001 Salaskalni	2570	2422	1906	1631	1775	2446	3092	3770	3054	3572	2679
74440070045001 Licupes	2935	2437	3020	2489	2004	3137	3169	2766	1987	2303	1955
74440070051001 Senci	2583	2609	1597	1551	1991	2311	3179	4213	3550	4106	3099
74440070053001 Rogas	2994	3073	1888	1960	2468	2666	3607	4711	4050	4604	3597
74440070054001 Duburi	2886	2417	2896	2380	1944	3056	3156	2881	2100	2449	2018
74440070059001 Zarini	2756	2904	1577	1737	2336	2383	3382	4639	4017	4591	3528
74440070062001 Oš i	2573	2470	1820	1598	1825	2409	3118	3892	3189	3718	2792
74440070067001 Vecbirznieki	1795	2426	1681	2069	2562	1404	2093	4195	4054	4612	3470
74440070069001 Lejies i	2773	2617	2092	1832	1970	2648	3293	3917	3188	3691	2836
74440070070001 Silini	2978	2870	2176	1994	2223	2802	3523	4228	3504	4010	3142
74440070072001 Zustrēni	2295	2904	1720	2244	2889	1797	2710	4779	4549	5131	3953
74440070083001 Rukmuli	2813	2972	1618	1800	2410	2429	3441	4717	4098	4673	3606
74440070085001 Plavinas	2274	2903	2183	2588	3073	1915	2500	4601	4511	5055	3937
74440070090001 Graš ini	2300	2482	1112	1295	1946	1917	2929	4278	3693	4281	3175
74440070096001 Pienenes	2409	2977	1560	2132	2852	1868	2906	4909	4602	5198	4004
74440070121001 Klavas	2237	2862	2240	2616	3066	1912	2424	4518	4454	4988	3886
74440070133001 Jaunstamuri	1572	2186	1222	1652	2220	1090	1995	4055	3832	4410	3237
74440070164001 Porini	2112	2287	957	1101	1753	1744	2740	4087	3511	4101	2987
74440070177001 Zviedri	2286	2914	2229	2625	3098	1941	2496	4594	4516	5055	3944
74440070186001 Apseni	1482	2111	1584	1887	2301	1150	1744	3848	3726	4276	3148
74440070188001 Strautmali	1263	1891	1492	1736	2103	966	1523	3625	3502	4052	2925
74440070195015 Kaspari	844	1421	1616	1649	1782	844	933	3036	2965	3494	2407
74440070206001 Jaunbirznieki	1950	2581	1773	2187	2703	1546	2252	4354	4211	4770	3626
74440070252001 Jaunvilni	1833	2452	2003	2310	2695	1558	1994	4087	4029	4560	3466
74440070333001 Priēž lejas	2654	2774	1517	1626	2194	2305	3275	4486	3856	4427	3373