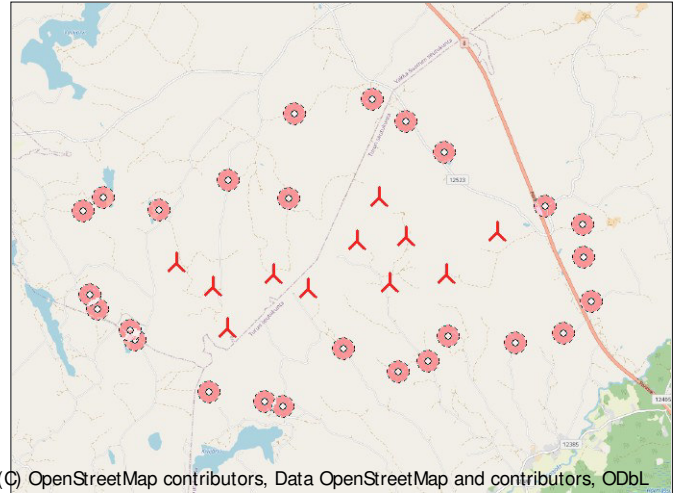


DECI BEL - Main Result

Calculation: 2024-05-02_Kolsa-Juvansuo_Noise-ISO-9613_11xV162-6.4MW-HH169m

Calculation is done according to Finnish guideline " Ympäristöhallinnon ohjeita 2 | 2014" from the Ministry of the Environment of Finland

All coordinates are in
UTM (north)-ETRS89 Zone: 35



WTGs

	Easting Northing Z			Row data/Description	WTG type			Power, rated	Rotor diameter	Hub height	Noise data		First wind speed [m/s]	LwaPef [dB(A)]	Last wind speed [m/s]	LwaPef [dB(A)]	Max uncertainty [dB(A)]
	Valid	Manufact.	Type-generator		Creator	Name											
WTG01	216,270	6,746,640	25.0	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	
WTG02	216,835	6,746,208	30.0	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	
WTG03	217,038	6,745,498	25.0	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	
WTG04	217,869	6,746,330	35.0	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	
WTG05	218,413	6,746,040	35.0	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	
WTG06	219,299	6,746,782	35.0	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	
WTG07	219,786	6,746,036	35.0	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	
WTG09	219,714	6,747,466	39.1	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	
WTG10	220,096	6,746,784	30.6	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	
WTG11	220,729	6,746,109	35.0	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	
WTG12	221,627	6,746,730	45.0	VESTAS V162-6.4 6400 162.0 I-I ... Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TFZ_V162-6.4_STE_PO6400_106.6+2.0dB	8.0	107.9	13.0	108.6	0.0*	

Calculation Results

Sound level

Noise sensitive area		Easting	Northing	Z	Immission height	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled ?	
No.	Name							Noise	2 dB penalty applied for one or more WTGs
A	Noise sensitive point: Finnish normal frequency - User defined (1)	215,148	6,747,832	22.6	4.0	40.0	33.1	Yes	No
B	Noise sensitive point: Finnish normal frequency - User defined (2)	214,795	6,747,627	30.0	4.0	40.0	32.2	Yes	No
C	Noise sensitive point: Finnish normal frequency - User defined (3)	214,800	6,746,244	25.0	4.0	40.0	34.2	Yes	No
D	Noise sensitive point: Finnish normal frequency - User defined (4)	220,258	6,748,677	40.0	4.0	40.0	36.3	Yes	No
E	Noise sensitive point: Finnish normal frequency - User defined (5)	220,853	6,748,131	40.0	4.0	40.0	37.8	Yes	No
F	Noise sensitive point: Finnish normal frequency - User defined (6)	221,774	6,744,892	30.0	4.0	40.0	34.9	Yes	No
G	Noise sensitive point: Finnish normal frequency - User defined (7)	222,590	6,744,982	30.0	4.0	40.0	32.3	Yes	No
H	Noise sensitive point: Finnish normal frequency - User defined (8)	218,411	6,748,956	33.4	4.0	40.0	33.7	Yes	No
I	Noise sensitive point: Finnish normal frequency - User defined (9)	219,791	6,744,573	30.0	4.0	40.0	36.7	Yes	No
J	Noise sensitive point: Finnish normal frequency - User defined (10)	217,848	6,744,147	25.8	4.0	40.0	35.5	Yes	No
K	Noise sensitive point: Finnish normal frequency - User defined (11)	218,924	6,745,007	35.0	4.0	40.0	39.4	Yes	No
L	Noise sensitive point: Finnish normal frequency - User defined (12)	223,055	6,746,756	38.9	4.0	40.0	33.9	Yes	No
M	Noise sensitive point: Finnish normal frequency - User defined (13)	218,217	6,747,568	35.0	4.0	40.0	39.6	Yes	No
N	Noise sensitive point: Finnish normal frequency - User defined (14)	222,455	6,747,096	40.0	4.0	40.0	38.2	Yes	No
O	Noise sensitive point: Finnish normal frequency - User defined (15)	223,019	6,746,211	35.9	4.0	40.0	33.8	Yes	No
P	Noise sensitive point: Finnish normal frequency - User defined (16)	223,093	6,745,480	37.7	4.0	40.0	31.8	Yes	No
Q	Noise sensitive point: Finnish normal frequency - User defined (17)	216,054	6,747,555	30.0	4.0	40.0	38.6	Yes	No
R	Noise sensitive point: Finnish normal frequency - User defined (18)	215,426	6,745,592	30.0	4.0	40.0	36.8	Yes	No
S	Noise sensitive point: Finnish normal frequency - User defined (19)	215,488	6,745,433	30.0	4.0	40.0	36.6	Yes	No
T	Noise sensitive point: Finnish normal frequency - User defined (20)	217,548	6,744,242	28.3	4.0	40.0	36.3	Yes	No
U	Noise sensitive point: Finnish normal frequency - User defined (21)	214,900	6,745,981	30.0	4.0	40.0	34.5	Yes	No

To be continued on next page...

Project:

Kolsa-Juvansuo

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 +49 611 26765 0
 Hari Prasath Ramasamy / Hari.Ramasamy@abo-wind.de
 Calculated:
 02.05.2024 15:57/4.0.540

DECI BEL - Main Result

Calculation: 2024-05-02_Kolsa-Juvansuo_Noise-ISO-9613_11xV162-6.4MW-HH169m

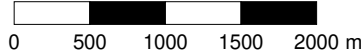
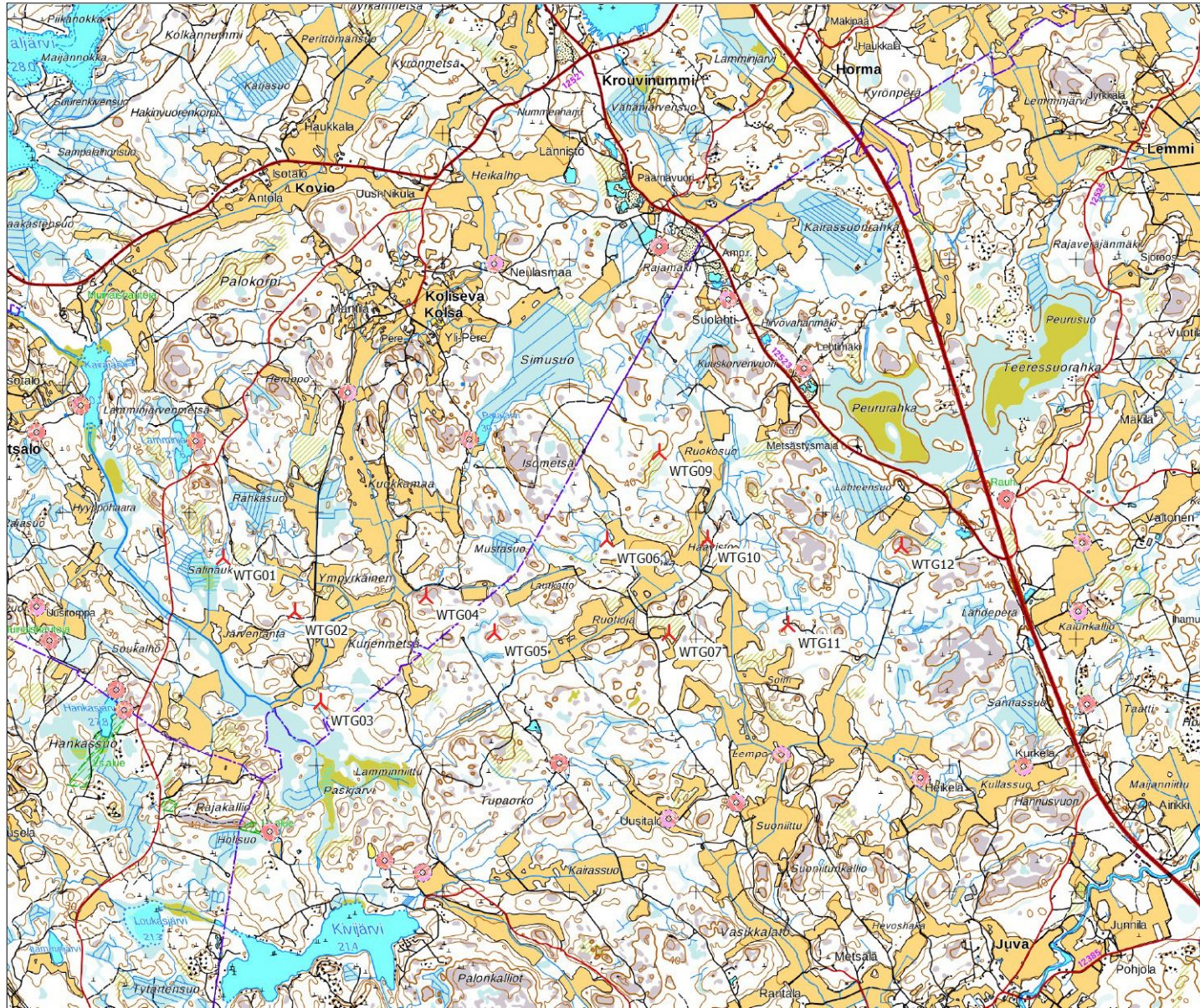
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Noise sensitive area		Easting	Northing	Z	Immission height	Demands Noise	Sound level From WTGs	Demands fulfilled ? Noise	2 dB penalty applied for one or more WTGs
No.	Name								
V	Noise sensitive point: Finnish normal frequency - User defined (22)	219,714	6,749,096	45.5	[m]	[dB(A)]	[dB(A)]	Yes	No
W	Noise sensitive point: Finnish normal frequency - User defined (23)	220,676	6,745,080	30.0	4.0	40.0	39.2	Yes	No
X	Noise sensitive point: Finnish normal frequency - User defined (24)	217,253	6,747,936	25.0	4.0	40.0	36.7	Yes	No
Y	Noise sensitive point: Finnish normal frequency - User defined (25)	216,641	6,744,471	30.5	4.0	40.0	37.4	Yes	No
Z	Noise sensitive point: Finnish normal frequency - User defined (26)	220,323	6,744,696	28.9	4.0	40.0	37.1	Yes	No

Distances (m)

NSA	WTG											
	WTG01	WTG02	WTG03	WTG04	WTG05	WTG06	WTG07	WTG09	WTG10	WTG11	WTG12	
A	1636	2340	3000	3105	3721	4277	4969	4577	5053	5836	6566	
B	1773	2483	3090	3333	3947	4578	5233	4917	5363	6120	6884	
C	1521	2034	2357	3067	3615	4526	4986	5059	5319	5925	6838	
D	4474	4216	4521	3346	3215	2122	2680	1326	1898	2609	2378	
E	4815	4450	4632	3482	3210	2056	2349	1318	1543	2024	1599	
F	5769	5106	4770	4158	3548	3111	2292	3293	2527	1602	1842	
G	6527	5878	5571	4905	4305	3748	2993	3796	3074	2173	1994	
H	3151	3165	3718	2679	2913	2346	3225	1978	2746	3669	3908	
I	4079	3374	2902	2602	2011	2261	1462	2891	2230	1798	2830	
J	2947	2294	1574	2181	1974	3005	2704	3804	3462	3482	4573	
K	3113	2407	1947	1691	1152	1812	1341	2580	2127	2113	3202	
L	6779	6238	6142	5199	4692	3753	3344	3412	2956	2412	1427	
M	2155	1937	2380	1284	1539	1336	2191	1499	2034	2903	3508	
N	6196	5684	5643	4645	4174	3169	2869	2763	2377	1986	904	
O	6756	6178	6018	5147	4605	3760	3235	3532	2976	2290	1484	
P	6914	6294	6050	5288	4709	4008	3350	3915	3265	2443	1925	
Q	940	1556	2278	2187	2801	3332	4025	3658	4111	4889	5628	
R	1344	1537	1613	2550	3018	4048	4378	4675	4815	5323	6299	
S	1437	1553	1550	2542	2985	4039	4336	4685	4798	5280	6269	
T	2714	2089	1354	2111	1994	3082	2866	3880	3596	3685	4773	
U	1519	1947	2190	2987	3510	4467	4882	5033	5253	5825	6762	
V	4226	4074	4480	3322	3318	2349	3058	1629	2341	3152	3040	
W	4669	3999	3659	3070	2456	2187	1305	2570	1799	1029	1903	
X	1625	1776	2446	1718	2220	2347	3163	2503	3065	3924	4533	
Y	2198	1746	1100	2226	2365	3519	3510	4287	4154	4400	5469	
Z	4490	3797	3379	2946	2333	2322	1442	2833	2099	1468	2414	

Project:
Kolsa-Juvansuo



Map: NLS terrain map , Print scale 1:50,000, Map center UTM (north)-ETRS89 Zone: 35 East: 218,944 North: 6,746,621

New WTG Noise sensitive area

DECI BEL -
Map Highest noise value at receptor
Calculation:
2024-05-02_Kolsa-Juvansuo_Noise-ISO-9613_11xV162-6.4MW-HH169m

Licensed user:
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Hari Prasath Ramasamy / Hari.Ramasamy@abo-wind.de
Calculated:
02.05.2024 15:57/4.0.540

DECI BEL - Main Result

Calculation: 2024-05-02_Kolsa-Juvansuo_Noise-low-freq_11xV162-6.4MW-HH169m

Noise calculation model:

Finland Low frequency

Wind speed (at 10 m height):

Highest noise value at receptor

Spectral distribution:

From 20.0 Hz to 200.0 Hz

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:

Pure tone penalty is subtracted from demand

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

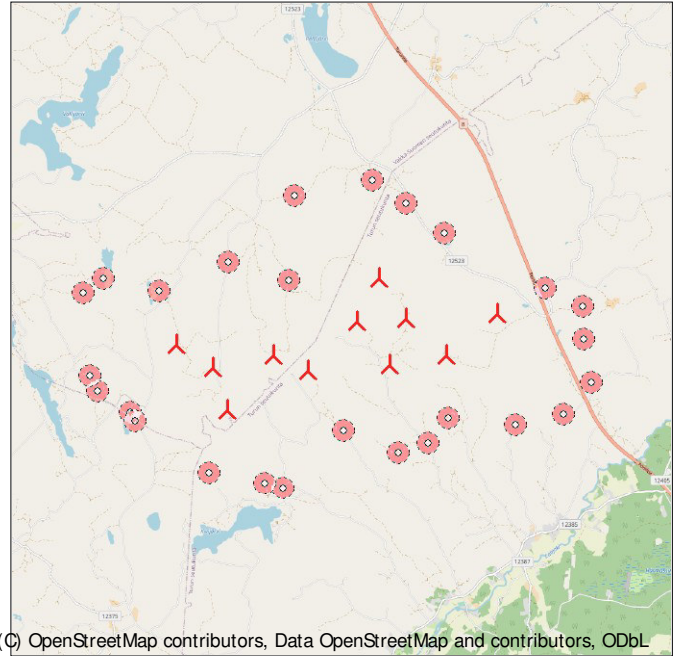
UTM (north)-ETRS89 Zone: 35

All coordinates are in

UTM (north)-ETRS89 Zone: 35

WTGs

	Easting	Northing	Z	Row data/Description	WTG type			Power, rated	Rotor diameter	Hub height	Noise data					
					Valid	Manufact.	Type-generator				Creator	Name	First wind speed	LwaRef	Last wind speed	LwaRef
	[m]	[m]	[m]				[kW]	[m]	[m]		[m/s]	[dB(A)]	[m/s]	[dB(A)]		
WTG01	216,270	6,746,640	25.0	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6
WTG02	216,835	6,746,208	30.0	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6
WTG03	217,038	6,745,498	25.0	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6
WTG04	217,869	6,746,330	35.0	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6
WTG05	218,413	6,746,040	35.0	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6
WTG06	219,299	6,746,782	35.0	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6
WTG07	219,786	6,746,036	35.0	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6
WTG09	219,714	6,747,466	39.1	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6
WTG10	220,096	6,746,784	30.6	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6
WTG11	220,729	6,746,109	35.0	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6
WTG12	221,627	6,746,730	45.0	VESTAS V162-6.4 6400 162.0 1...	Yes	VESTAS	V162-6.4-6,400	6,400	162.0	169.0	USER	ZZ_TRZ_V162-6.4_STE_PO6400_106.6+2.0dB	6.0	98.6	11.0	98.6



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

Scale 1:125,000

New WTG

Noise sensitive area

Calculation Results

Sound level

No.	Name	Noise sensitive area	Easting	Northing	Z	Immission height	Most critical demand			Predicted sound level		Demands fulfilled?	
							Frequency	Noise	WTG noise	Noise	2 dB penalty applied for one or more WTGs		
						[m]	[m]	[Hz]	[dB]	[dB]			
A	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (27)	215,148	6,747,832	22.6	4.0	50.0	44.0	36.1	36.1	Yes	No	
B	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (28)	214,795	6,747,627	30.0	4.0	50.0	44.0	35.6	35.6	Yes	No	
C	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (29)	214,800	6,746,244	25.0	4.0	50.0	44.0	36.8	36.8	Yes	No	
D	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (30)	220,258	6,748,677	40.0	4.0	50.0	44.0	38.6	38.6	Yes	No	
E	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (31)	220,853	6,748,131	40.0	4.0	50.0	44.0	39.6	39.6	Yes	No	
F	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (32)	221,774	6,744,892	30.0	4.0	50.0	44.0	37.5	37.5	Yes	No	
G	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (33)	222,590	6,744,982	30.0	4.0	50.0	44.0	35.8	35.8	Yes	No	
H	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (34)	218,411	6,748,956	33.4	4.0	50.0	44.0	37.1	37.1	Yes	No	
I	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (35)	219,791	6,744,573	30.0	4.0	50.0	44.0	39.0	39.0	Yes	No	
J	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (36)	217,848	6,744,147	25.8	4.0	50.0	44.0	38.2	38.2	Yes	No	
K	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (37)	218,924	6,745,007	35.0	4.0	50.0	44.0	40.9	40.9	Yes	No	
L	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (38)	223,055	6,746,756	38.9	4.0	50.0	44.0	36.5	36.5	Yes	No	
M	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (39)	218,217	6,747,568	35.0	4.0	50.0	44.0	41.1	41.1	Yes	No	
N	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (40)	222,455	6,747,096	40.0	4.0	50.0	44.0	39.2	39.2	Yes	No	
O	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (41)	223,019	6,746,211	35.9	4.0	50.0	44.0	36.5	36.5	Yes	No	
P	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (42)	223,093	6,745,480	37.7	4.0	50.0	44.0	35.4	35.4	Yes	No	
Q	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (43)	216,054	6,747,555	30.0	4.0	50.0	44.0	39.7	39.7	Yes	No	
R	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (44)	215,426	6,745,592	30.0	4.0	50.0	44.0	38.6	38.6	Yes	No	
S	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (45)	215,488	6,745,433	30.0	4.0	50.0	44.0	38.5	38.5	Yes	No	
T	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (46)	217,548	6,744,242	28.3	4.0	50.0	44.0	38.6	38.6	Yes	No	
U	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (47)	214,900	6,745,981	30.0	4.0	50.0	44.0	37.0	37.0	Yes	No	
V	Noise sensitive point: Finnish low frequency	Residential health guide 2003, indoor - night (48)	219,714	6,749,096	45.5	4.0	50.0	44.0	37.3	37.3	Yes	No	

To be continued on next page...

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Kolsa-Juvansuo

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Hari Prasath Ramasamy / Hari.Ramasamy@abo-wind.de
Calculated:
02.05.2024 15:58/4.0.540

DECI BEL - Main Result

Calculation: 2024-05-02_Kolsa-Juvansuo_Noise-low-freq_11xV162-6.4MW-HH169m

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Noise sensitive area
No. Name

No.	Name	Eastings	Northing	Z	Immission height	Most critical demand Frequency	Predicted sound level Noise	Demands fulfilled ? Noise	2 dB penalty applied for one or more WTGs	
					[m]	[Hz]	[dB]			
W	Noise sensitive point: Finnish low frequency - Residential health guide 2003, indoor - night (49)	220,676	6,745,080	30.0	4.0	50.0	44.0	40.5	Yes	No
X	Noise sensitive point: Finnish low frequency - Residential health guide 2003, indoor - night (50)	217,253	6,747,936	25.0	4.0	50.0	44.0	39.0	Yes	No
Y	Noise sensitive point: Finnish low frequency - Residential health guide 2003, indoor - night (51)	216,641	6,744,471	30.5	4.0	50.0	44.0	39.1	Yes	No
Z	Noise sensitive point: Finnish low frequency - Residential health guide 2003, indoor - night (52)	220,323	6,744,696	28.9	4.0	50.0	44.0	39.2	Yes	No

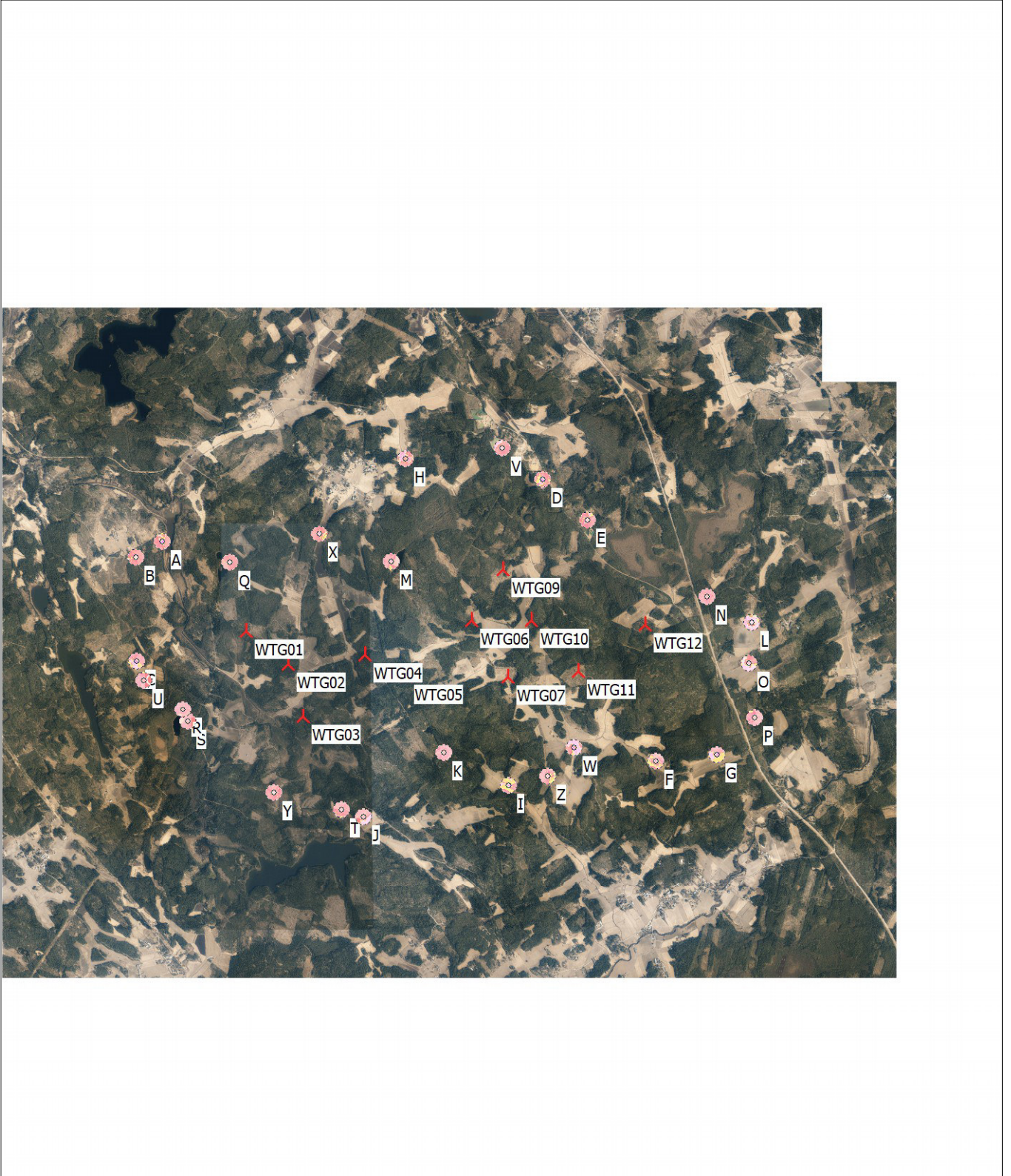
*)Spectral distribution, please see details in report "Detailed results"

Distances (m)

	WTG											
NSA	WTG01	WTG02	WTG03	WTG04	WTG05	WTG06	WTG07	WTG09	WTG10	WTG11	WTG12	
A	1636	2340	3000	3105	3721	4277	4969	4577	5053	5836	6566	
B	1773	2483	3090	3333	3947	4578	5233	4917	5363	6120	6884	
C	1521	2034	2357	3067	3615	4526	4986	5059	5319	5925	6838	
D	4474	4216	4521	3346	3215	2122	2680	1326	1898	2609	2378	
E	4815	4450	4632	3482	3210	2056	2349	1318	1543	2024	1599	
F	5769	5106	4770	4158	3548	3111	2292	3293	2527	1602	1842	
G	6527	5878	5571	4905	4305	3748	2993	3796	3074	2173	1994	
H	3151	3165	3718	2679	2913	2346	3225	1978	2746	3669	3908	
I	4079	3374	2902	2602	2011	2261	1462	2891	2230	1798	2830	
J	2947	2294	1574	2181	1974	3005	2704	3804	3462	3482	4573	
K	3113	2407	1947	1691	1152	1812	1341	2580	2127	2113	3202	
L	6779	6238	6142	5199	4692	3753	3344	3412	2956	2412	1427	
M	2155	1937	2380	1284	1539	1336	2191	1499	2034	2903	3508	
N	6196	5684	5643	4645	4174	3169	2869	2763	2377	1986	904	
O	6756	6178	6018	5147	4605	3760	3235	3532	2976	2290	1484	
P	6914	6294	6050	5288	4709	4008	3350	3915	3265	2443	1925	
Q	940	1556	2278	2187	2801	3332	4025	3658	4111	4889	5628	
R	1344	1537	1613	2550	3018	4048	4378	4675	4815	5323	6299	
S	1437	1553	1550	2542	2985	4039	4336	4685	4798	5280	6269	
T	2714	2089	1354	2111	1994	3082	2866	3880	3596	3685	4773	
U	1519	1947	2190	2987	3510	4467	4882	5033	5253	5825	6762	
V	4226	4074	4480	3322	3318	2349	3058	1629	2341	3152	3040	
W	4669	3999	3659	3070	2456	2187	1305	2570	1799	1029	1903	
X	1625	1776	2446	1718	2220	2347	3163	2503	3065	3924	4533	
Y	2198	1746	1100	2226	2365	3519	3510	4287	4154	4400	5469	
Z	4490	3797	3379	2946	2333	2322	1442	2833	2099	1468	2414	

DECI BEL - Map

Calculation: 2024-05-02_Kolsa-Juvansuo_Noise-low-freq_11xV162-6.4MW-HH169m



Map: NLS aerial imagery , Print scale 1:75,000, Map center UTM (north)-ETRS89 Zone: 35 East: 218,944 North: 6,746,621

New WTG Noise sensitive area