

Project:

ZFT E alternativa Mezares

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SIA Estonian, Latvian &amp; Lithuanian environment

Vilandes 3-6

LV-1010 Riga

0037167242411

Kristiana / kristiana@environment.lv

Calculated:

16/07/2024 8:02 pm/4.0.540

## DECIBEL - Main Result

Calculation: Vestas V172-7.2 MW ST E alternativa 160724

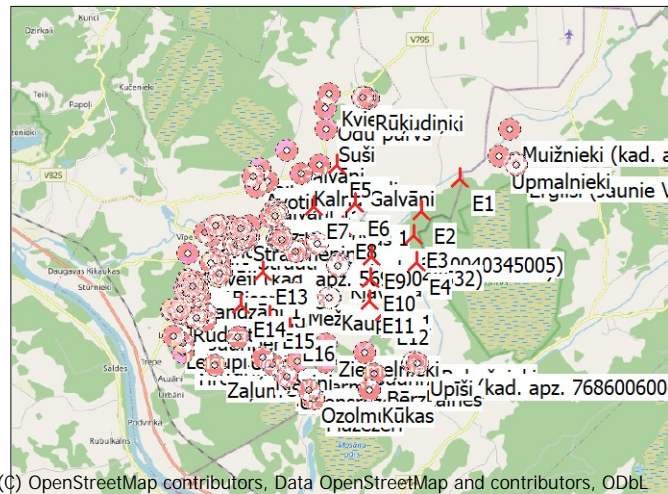
Noise calculation model:

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

Latvian TM LKS92-LKS92 (LV)



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

Scale 1:200,000

New WTG

Noise sensitive area

## WTGs

	Y	X	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]								
E1	636,123	261,795	87.8	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E10	633,842	259,069	87.4	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E11	633,843	258,516	88.5	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E12	634,228	258,195	88.7	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E13	630,970	259,180	89.2	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E14	630,437	258,298	89.2	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E15	631,207	258,006	89.7	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E16	631,752	257,686	89.3	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E2	635,130	260,895	87.2	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E3	634,956	260,253	88.2	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E4	635,043	259,570	86.9	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E5	632,850	262,038	88.3	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E6	633,382	261,050	86.8	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E7	632,277	260,924	86.6	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E8	633,072	260,433	86.4	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f
E9	633,864	259,664	87.5	VESTAS V172-7.2 7200 17...	Yes	VESTAS	V172-7.2-7,200	7,200	172.0	175.0	USER	Vestas V172-7.2MW ST	6.0	100.5	f	8.0	100.4	f

f) From other hub height

## Calculation Results

### Sound level

Noise sensitive area No.	Name	Y	X	Z	Immission height [m]	Wind speed [m/s]	Demands		Sound level From WTGs
							Noise		
							[dB(A)]		[dB(A)]
Aizveji (kad. apz. 56960040532)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (87)	629,002	259,580	100.0	1.5	6.0	20.0		11.6
Aizveji (kad. apz. 56960040532)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (100)	637,584	262,271	90.2	1.5	6.0	20.0		11.1
Araji	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (82)	629,007	258,901	109.8	1.5	6.0	20.0		12.3
Ausmas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (64)	629,026	258,878	110.2	1.5	6.0	20.0		12.3
Ausmas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (51)	630,655	261,679	95.5	1.5	6.0	20.0		12.6
Avenes	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (12)	630,824	261,888	96.6	1.5	6.0	20.0		12.7
Avenes	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (24)	629,430	260,176	94.4	1.5	6.0	20.0		12.0
Avotini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (92)	629,834	259,085	98.6	1.5	6.0	20.0		15.7
Biksti	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (69)	629,826	259,009	100.0	1.5	6.0	20.0		15.8
Biksti	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (99)	634,025	256,561	89.8	1.5	6.0	20.0		13.1
Birzmalieš i	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (23)	628,810	258,021	99.9	1.5	6.0	20.0		11.5
Birzmalieš i	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (86)	629,817	259,397	94.6	1.5	6.0	20.0		14.8
Bisenieki									
Bisenieki 3									
Bisenieki 3									
Berzkalnes									
Berzkalnes									
Cerini									
Cerini									
Cuculi									

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## DECIBEL - Main Result

Calculation: Vestas V172-7.2 MW ST E alternativa 160724

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Noise sensitive area

No.	Name	Y	X	Z	Immission height [m]	Wind speed [m/s]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]
				[m]				
Cuculi						8.0	20.0	14.8
Dravnieki	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (45)	633,644	263,831	90.0	1.5	6.0	20.0	11.2
Dravnieki						8.0	20.0	11.2
Druvas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (16)	631,293	260,825	87.4	1.5	6.0	20.0	15.9
Druvas						8.0	20.0	15.9
Darzipites (Purenes)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (18)	630,445	260,035	87.4	1.5	6.0	20.0	15.3
Darzipites (Purenes)						8.0	20.0	15.2
Ezermalī	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (6)	631,982	256,839	90.5	1.5	6.0	20.0	15.8
Ezermalī						8.0	20.0	15.8
Galvani	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (46)	631,518	262,403	95.0	1.5	6.0	20.0	13.7
Galvani						8.0	20.0	13.6
Galvani 1	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (41)	630,740	261,408	95.9	1.5	6.0	20.0	13.2
Galvani 1						8.0	20.0	13.2
Graudini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (89)	633,544	263,868	90.6	1.5	6.0	20.0	11.1
Graudini						8.0	20.0	11.1
Ievas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (19)	629,234	258,853	109.7	1.5	6.0	20.0	13.2
Ievas						8.0	20.0	13.2
Jaunberzi	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (97)	629,247	257,905	97.4	1.5	6.0	20.0	13.1
Jaunberzi						8.0	20.0	13.1
Jaundruvas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (5)	631,244	260,809	87.2	1.5	6.0	20.0	15.7
Jaundruvas						8.0	20.0	15.7
Jaundruvas 1	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (50)	631,328	260,722	88.5	1.5	6.0	20.0	16.1
Jaundruvas 1						8.0	20.0	16.1
Jaunie Robežnieki	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (105)	633,740	257,133	89.9	1.5	6.0	20.0	15.4
Jaunie Robežnieki						8.0	20.0	15.3
Jaunlāstīgalas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (21)	629,187	258,470	109.5	1.5	6.0	20.0	13.2
Jaunlāstīgalas						8.0	20.0	13.2
Jaunrudzati	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (32)	628,619	258,104	102.7	1.5	6.0	20.0	10.9
Jaunrudzati						8.0	20.0	10.8
Kalna Galvani	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (10)	631,938	261,808	98.8	1.5	6.0	20.0	16.9
Kalna Galvani						8.0	20.0	16.9
Kalnmuīža	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (8)	632,721	256,821	92.6	1.5	6.0	20.0	14.5
Kalnmuīža						8.0	20.0	14.4
Kalnares	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (14)	631,053	261,571	97.6	1.5	6.0	20.0	13.9
Kalnares						8.0	20.0	13.9
Kaupres	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (61)	632,783	258,532	90.3	1.5	6.0	20.0	18.0
Kaupres						8.0	20.0	17.9
Kaupres 1	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (62)	632,799	258,538	90.5	1.5	6.0	20.0	18.0
Kaupres 1						8.0	20.0	18.0
Krasta Ozoli	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (2)	631,131	260,619	88.8	1.5	6.0	20.0	15.5
Krasta Ozoli						8.0	20.0	15.5
Krastini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (53)	631,465	260,045	88.7	1.5	6.0	20.0	16.9
Krastini						8.0	20.0	16.9
Kvieši	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (43)	632,611	263,913	90.8	1.5	6.0	20.0	10.9
Kvieši						8.0	20.0	10.8
Klavas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (30)	632,956	259,394	90.6	1.5	6.0	20.0	19.1
Klavas						8.0	20.0	19.1
Klavini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (78)	631,053	256,922	91.6	1.5	6.0	20.0	15.8
Klavini						8.0	20.0	15.8
Kukas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (107)	633,899	256,150	92.0	1.5	6.0	20.0	11.9
Kukas						8.0	20.0	11.8
Laides	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (67)	629,905	259,102	97.0	1.5	6.0	20.0	16.0
Laides						8.0	20.0	15.9
Landzani	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (59)	629,286	258,641	110.1	1.5	6.0	20.0	13.6
Landzani						8.0	20.0	13.6
Landzani 1	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (27)	629,116	258,741	111.9	1.5	6.0	20.0	12.8
Landzani 1						8.0	20.0	12.8
Landzani 4	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (83)	628,932	258,678	110.4	1.5	6.0	20.0	12.1
Landzani 4						8.0	20.0	12.0
Landzani 5	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (65)	629,081	258,816	110.8	1.5	6.0	20.0	12.6
Landzani 5						8.0	20.0	12.6
Leišupi	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (9)	628,671	257,407	93.8	1.5	6.0	20.0	10.4
Leišupi						8.0	20.0	10.4
Liepsala	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (36)	633,000	259,440	91.0	1.5	6.0	20.0	19.4
Liepsala						8.0	20.0	19.3
Līči	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (33)	629,928	260,232	91.1	1.5	6.0	20.0	13.2
Līči						8.0	20.0	13.2
Mazezeri	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (80)	632,423	255,859	91.2	1.5	6.0	20.0	11.6
Mazezeri						8.0	20.0	11.6
Meistari	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (34)	628,595	258,081	102.2	1.5	6.0	20.0	10.8
Meistari						8.0	20.0	10.7
Meža Muiža	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (66)	631,348	260,063	89.8	1.5	6.0	20.0	16.8
Meža Muiža						8.0	20.0	16.7
Meža muiža	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (58)	631,411	260,014	88.8	1.5	6.0	20.0	16.9
Meža muiža						8.0	20.0	16.9
Meža vidi	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (25)	631,891	258,644	91.2	1.5	6.0	20.0	18.3
Meža vidi						8.0	20.0	18.3
Muiža nieki (kad. apz. 56960040061)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (20)	630,201	259,845	91.7	1.5	6.0	20.0	15.1
Muiža nieki (kad. apz. 56960040061)						8.0	20.0	15.1

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## DECIBEL - Main Result

Calculation: Vestas V172-7.2 MW ST E alternativa 160724

...continued from previous page

Noise sensitive area

No.	Name	Y	X	Z	Immission height [m]	Wind speed [m/s]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]
Muiž nieki (kad. apz. 76860010011)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (98)	637,413	263,145	89.7	1.5	6.0	20.0	9.9
Muiž nieki (kad. apz. 76860010011)						8.0	20.0	9.8
Ogu purvs	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (44)	632,503	263,565	90.8	1.5	6.0	20.0	11.9
Ogu purvs						8.0	20.0	11.9
Ozolmuiž a	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (77)	632,309	256,092	92.0	1.5	6.0	20.0	12.4
Ozolmuiž a						8.0	20.0	12.3
Ozolsalina	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (47)	631,296	256,744	90.3	1.5	6.0	20.0	15.2
Ozolsalina						8.0	20.0	15.2
OŠ ini (kad. apz. 76860060068001)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (104)	635,060	256,873	89.5	1.5	6.0	20.0	12.9
OŠ ini (kad. apz. 76860060068001)						8.0	20.0	12.9
OŠ ini (kad. apz. 76860060068006)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (106)	635,063	256,890	89.4	1.5	6.0	20.0	13.0
OŠ ini (kad. apz. 76860060068006)						8.0	20.0	13.0
Pludmales	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (55)	632,402	259,972	87.5	1.5	6.0	20.0	18.7
Pludmales						8.0	20.0	18.7
Pludmales 1	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (54)	632,389	259,979	87.5	1.5	6.0	20.0	18.7
Pludmales 1						8.0	20.0	18.6
Rudzati	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (71)	628,835	258,131	101.9	1.5	6.0	20.0	11.6
Rudzati						8.0	20.0	11.6
Raceni	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (93)	631,440	260,124	89.3	1.5	6.0	20.0	16.8
Raceni						8.0	20.0	16.7
Ruki	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (90)	633,500	263,869	90.4	1.5	6.0	20.0	11.1
Ruki						8.0	20.0	11.1
Saulkrasti	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (49)	629,817	260,364	90.5	1.5	6.0	20.0	12.6
Saulkrasti						8.0	20.0	12.6
Saulites	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (68)	629,092	258,651	111.8	1.5	6.0	20.0	12.7
Saulites						8.0	20.0	12.7
Seglini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (29)	629,043	258,604	111.3	1.5	6.0	20.0	12.6
Seglini						8.0	20.0	12.5
Senlici	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (72)	629,159	258,479	110.1	1.5	6.0	20.0	13.1
Senlici						8.0	20.0	13.1
Skola (kad. apz. 56960040345001)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (81)	630,464	259,995	90.5	1.5	6.0	20.0	15.5
Skola (kad. apz. 56960040345001)						8.0	20.0	15.4
Skola (kad. apz. 56960040345002)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (74)	630,497	259,971	90.9	1.5	6.0	20.0	15.7
Skola (kad. apz. 56960040345002)						8.0	20.0	15.6
Skola (kad. apz. 56960040345005)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (73)	630,516	259,989	90.8	1.5	6.0	20.0	15.7
Skola (kad. apz. 56960040345005)						8.0	20.0	15.6
Spridiš i	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (31)	630,287	259,867	91.4	1.5	6.0	20.0	15.4
Spridiš i						8.0	20.0	15.3
Starumeni	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (57)	629,570	260,072	91.0	1.5	6.0	20.0	12.5
Starumeni						8.0	20.0	12.5
Straumenini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (4)	630,371	260,297	90.6	1.5	6.0	20.0	14.2
Straumenini						8.0	20.0	14.2
Strauti	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (17)	630,507	260,064	86.7	1.5	6.0	20.0	15.3
Strauti						8.0	20.0	15.3
Strautini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (11)	630,135	260,339	89.7	1.5	6.0	20.0	13.5
Strautini						8.0	20.0	13.5
Suš i	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (3)	632,558	262,979	90.8	1.5	6.0	20.0	14.5
Suš i						8.0	20.0	14.5
Sipolini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (35)	628,994	257,983	98.4	1.5	6.0	20.0	12.2
Sipolini						8.0	20.0	12.1
Turaiki	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (84)	629,707	259,447	96.1	1.5	6.0	20.0	14.2
Turaiki						8.0	20.0	14.2
Tireli	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (42)	628,943	256,985	93.8	1.5	6.0	20.0	10.5
Tireli						8.0	20.0	10.5
Tudalinas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (13)	630,581	260,365	90.5	1.5	6.0	20.0	14.6
Tudalinas						8.0	20.0	14.5
Uplejas (kad. apz. 56960040385)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (22)	630,496	260,063	86.5	1.5	6.0	20.0	15.3
Uplejas (kad. apz. 56960040385)						8.0	20.0	15.3
Upmales	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (75)	631,821	259,742	87.8	1.5	6.0	20.0	17.4
Upmales						8.0	20.0	17.3
Upmalnieki	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (102)	637,168	262,426	89.6	1.5	6.0	20.0	12.4
Upmalnieki						8.0	20.0	12.4
Upmali	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (76)	631,974	259,757	87.6	1.5	6.0	20.0	17.5
Upmali						8.0	20.0	17.4
Upiš i	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (103)	635,172	256,887	90.1	1.5	6.0	20.0	12.8
Upiš i						8.0	20.0	12.7
Vaivarini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (88)	628,948	257,218	93.6	1.5	6.0	20.0	10.9
Vaivarini						8.0	20.0	10.9
Vecveveri	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (15)	629,448	258,075	98.7	1.5	6.0	20.0	14.4
Vecveveri						8.0	20.0	14.4
Viduslejas	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (1)	629,699	260,354	90.1	1.5	6.0	20.0	12.4
Viduslejas						8.0	20.0	12.3
Vilniš i	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (70)	631,367	260,092	90.3	1.5	6.0	20.0	16.7
Vilniš i						8.0	20.0	16.7
Valodzes	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (26)	629,323	258,499	108.2	1.5	6.0	20.0	13.9
Valodzes						8.0	20.0	13.9
Veji	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (63)	629,018	258,582	111.4	1.5	6.0	20.0	12.5
Veji						8.0	20.0	12.4
Vejini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (37)	628,995	258,562	111.2	1.5	6.0	20.0	12.4

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Project:

ZFT E alternativa Mezares

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Calculated:

16/07/2024 8:02 pm/4.0.540

## DECIBEL - Main Result

Calculation: Vestas V172-7.2 MW ST E alternativa 160724

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Noise sensitive area

No.	Name	Y	X	Z	Immission height [m]	Wind speed [m/s]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]
				[m]				
Vejini						8.0	20.0	12.3
Vejkalni	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (85)	629,623	259,351	101.3	1.5	6.0	20.0	14.1
Vejkalni						8.0	20.0	14.1
Veveri	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (56)	629,484	257,821	96.5	1.5	6.0	20.0	14.2
Veveri						8.0	20.0	14.1
Veveri 1	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (38)	629,515	258,020	97.6	1.5	6.0	20.0	14.7
Veveri 1						8.0	20.0	14.7
Vipes skola 1	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (96)	630,575	260,083	88.0	1.5	6.0	20.0	15.4
Vipes skola 1						8.0	20.0	15.4
Vipmali	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (52)	632,392	262,044	91.5	1.5	6.0	20.0	19.5
Vipmali						8.0	20.0	19.5
Zalumi	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (91)	629,788	256,666	93.6	1.5	6.0	20.0	11.9
Zalumi						8.0	20.0	11.9
Ziedini	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (48)	630,259	260,280	89.1	1.5	6.0	20.0	14.0
Ziedini						8.0	20.0	14.0
Ziemeli	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (60)	628,970	258,544	110.9	1.5	6.0	20.0	12.3
Ziemeli						8.0	20.0	12.2
Ziemelnieki	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (7)	632,730	257,300	92.1	1.5	6.0	20.0	16.0
Ziemelnieki						8.0	20.0	15.9
Zilites	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (40)	631,276	260,636	88.6	1.5	6.0	20.0	16.0
Zilites						8.0	20.0	15.9
Zilusala (Ozolsala)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (79)	631,638	256,495	91.5	1.5	6.0	20.0	14.2
Zilusala (Ozolsala)						8.0	20.0	14.1
Ergliš i (Jaunie Vuš karnieki)	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (101)	637,624	262,213	89.9	1.5	6.0	20.0	11.1
Ergliš i (Jaunie Vuš karnieki)						8.0	20.0	11.0
Ives	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (39)	629,102	258,794	111.2	1.5	6.0	20.0	12.7
Ives						8.0	20.0	12.7
Kirš i	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (28)	629,224	258,684	110.5	1.5	6.0	20.0	13.3
Kirš i						8.0	20.0	13.3
Udensrozes	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (94)	631,716	256,417	91.1	1.5	6.0	20.0	13.8
Udensrozes						8.0	20.0	13.8
Udri	Noise sensitive point: Danish 2019 low frequency - Regular dwellings (95)	630,377	257,422	99.4	1.5	6.0	20.0	16.6
Udri						8.0	20.0	16.6

## Distances (m)

NSA	WTG																
	E1	E10	E11	E12	E13	E14	E15	E16	E2	E3	E4	E5	E6	E7	E8	E9	
Aizveji (kad. apz. 56960040532)	7455	4865	4955	5405	2008	1924	2709	3338	6266	5990	6040	4565	4619	3539	4157	4861	
Araji	1537	4924	5300	5278	7299	8175	7670	7417	2813	3313	3707	4739	4375	5474	4871	4542	
Ausmas	7680	4837	4850	5267	1983	1552	2375	3001	6438	6099	6072	4960	4874	3845	4343	4915	
Avenes	7672	4819	4830	5246	1968	1526	2349	2974	6427	6087	6056	4960	4867	3841	4334	4901	
Avotini	5468	4119	4490	4990	2519	3388	3714	4140	4542	4531	4868	2224	2799	1789	2719	3789	
Biksti	5298	4129	4524	5021	2712	3610	3900	4302	4417	4442	4813	2031	2691	1743	2677	3766	
Birzmalleš i	6885	4547	4713	5190	1834	2130	2804	3403	5744	5525	5645	3894	4047	2943	3651	4462	
Bisenieki	6847	4007	4048	4483	1140	992	1746	2373	5596	5253	5231	4220	4055	3058	3507	4071	
Bisenieki 3	6885	4016	4046	4476	1157	937	1707	2336	5628	5278	5247	4280	4100	3111	3545	4090	
Berzkalnes	5637	2514	1963	1646	4022	3985	3166	2536	4471	3807	3176	5600	4533	4699	3986	3106	
Cerini	8227	5138	5056	5420	2450	1650	2397	2960	6941	6537	6421	5696	5483	4521	4896	5313	
Cuculi	6745	4037	4120	4571	1173	1261	1966	2582	5519	5209	5228	4021	3929	2895	3416	4055	
Dravnieki	3207	4765	5317	5665	5364	6394	6313	6428	3290	3810	4484	1960	2793	3211	3445	4172	
Druvas	4925	3095	3439	3940	1677	2668	2820	3172	3837	3707	3955	1974	2101	989	1822	2821	
Darzipites (Purenes)	5943	3531	3721	4206	1004	1737	2167	2688	4762	4516	4621	3130	3107	2036	2657	3439	
Ezermali	6457	2903	2505	2624	2550	2125	1401	878	5133	4527	4102	5270	4437	4095	3755	3394	
Galvani	4644	4063	4527	5003	3269	4244	4406	4721	3913	4054	4521	1381	2303	1661	2508	3605	
Galvani 1	5395	3884	4240	4741	2240	3124	3433	3856	4418	4370	4678	2201	2666	1611	2527	3577	
Graudini	3308	4807	5359	5713	5347	6376	6309	6435	3369	3880	4551	1957	2822	3204	3466	4216	
Ievas	7489	4612	4620	5036	1767	1325	2147	2774	6238	5890	5853	4818	4694	3681	4150	4699	
Jaunberzi	7899	4739	4636	4989	2144	1254	1963	2514	6598	6172	6030	5483	5195	4277	4585	4940	
Jaundruvas	4976	3126	3465	3966	1652	2637	2802	3163	3886	3753	3996	2022	2152	1039	1866	2858	
Jaundruvas 1	4913	3008	3344	3846	1583	2581	2717	3064	3805	3658	3889	2012	2080	971	1768	2747	
Jaunie Robež nieki	5234	1938	1387	1169	3443	3502	2679	2064	4009	3348	2763	4984	3932	4063	3366	2533	
Jaunlakstigalas	7690	4692	4655	5048	1919	1262	2073	2681	6417	6037	5958	5113	4924	3945	4352	4826	
Jaunrudzati	8360	5310	5239	5609	2585	1828	2590	3160	7082	6690	6588	5776	5599	4618	5024	5470	
Kalna Galvani	4184	3335	3802	4277	2800	3817	3871	4125	3319	3394	3827	941	1631	947	1782	2882	
Kalnmuži a	6025	2512	2033	2040	2937	2719	1922	1299	4732	4095	3599	5218	4280	4127	3629	3064	
Kalnares	5073	3746	4136	4633	2393	3330	3568	3947	4131	4119	4463	1856	2386	1384	2317	3396	
Kaupres	4668	1187	1060	1483	1925	2357	1661	1333	3330	2772	2487	3506	2588	2445	1923	1565	
Kaupres 1	4653	1170	1044	1470	1937	2373	1677	1349	3315	2756	2470	3500	2579	2443	1915	1550	
Krasta Ozoli	5127	3122	3430	3932	1448	2422	2613	2997	4007	3841	4050	2228	2291	1186	1949	2894	

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## DECIBEL - Main Result

Calculation: Vestas V172-7.2 MW ST E alternativa 160724

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NSA	WTG																
	E1	E10	E11	E12	E13	E14	E15	E16	E2	E3	E4	E5	E6	E7	E8	E9	
Krastini	4974	2569	2826	3325	997	2027	2055	2376	3761	3496	3609	2426	2164	1196	1653	2428	
Kvieš i	4100	4997	5534	5941	5009	6020	6070	6285	3930	4346	4977	1890	2965	3007	3510	4429	
Klavas	3973	943	1247	1747	1997	2746	2232	2089	2641	2176	2095	2646	1710	1674	1046	947	
Klavini	7031	3519	3213	3421	2259	1507	1095	1036	5692	5131	4789	5422	4739	4185	4050	3926	
Kukas	6066	2919	2367	2072	4213	4074	3269	2640	4901	4237	3606	5980	4926	5042	4362	3514	
Laides	6774	3936	3980	4416	1068	964	1702	2326	5523	5179	5159	4158	3985	2991	3435	3997	
Landzani	7527	4574	4557	4961	1768	1201	2023	2643	6262	5893	5830	4923	4751	3762	4188	4689	
Landzani 1	7642	4736	4731	5141	1905	1394	2217	2839	6387	6032	5984	4980	4850	3841	4302	4836	
Landzani 4	7836	4924	4912	5317	2099	1552	2372	2988	6581	6225	6175	5161	5042	4029	4496	5028	
Landzani 5	7644	4766	4770	5183	1923	1451	2275	2899	6394	6047	6008	4957	4845	3828	4305	4856	
Leiš upi	8646	5430	5288	5611	2903	1978	2606	3092	7339	6898	6728	6237	5954	5036	5340	5661	
Liepsala	3910	920	1250	1748	2046	2805	2295	2152	2579	2118	2047	2602	1654	1650	995	892	
Liciš i	6388	4082	4273	4757	1481	1999	2566	3131	5243	5027	5157	3435	3549	2449	3150	3976	
Mazezeri	6993	3508	3012	2952	3623	3144	2467	1946	5716	5070	4542	6192	5277	5066	4619	4067	
Meistari	8393	5338	5265	5634	2617	1855	2613	3181	7114	6721	6617	5810	5632	4651	5057	5501	
Mež a Muiž a	5078	2684	2934	3432	961	1986	2061	2410	3871	3612	3727	2481	2260	1267	1763	2546	
Mež muiž a	5036	2608	2856	3353	944	1973	2018	2353	3821	3553	3659	2483	2226	1256	1713	2477	
Mež vidi	5275	1996	1956	2380	1065	1494	934	968	3944	3461	3285	3526	2830	2312	2144	2221	
Muiž nieki (kad. apz. 56960040061)	6233	3721	3875	4351	1017	1564	2096	2657	5038	4771	4849	3438	3401	2339	2930	3666	
Muiž nieki (kad. apz. 76860010011)	1867	5419	5845	5885	7564	8493	8056	7863	3205	3794	4288	4694	4542	5595	5118	4971	
Ogu purvs	4029	4691	5223	5639	4645	5657	5707	5926	3745	4121	4734	1566	2664	2650	3183	4131	
Ozolmuiž a	6860	3348	2868	2847	3365	2893	2209	1689	5569	4931	4424	5970	5072	4832	4407	3895	
Ozolsalina	6985	3447	3102	3271	2457	1776	1266	1047	5649	5070	4693	5517	4784	4293	4094	3888	
Oš ini (kad. apz. 76860060068001)	5035	2511	2045	1562	4694	4836	4015	3406	4022	3381	2697	5617	4500	4914	4077	3036	
Oš ini (kad. apz. 76860060068006)	5017	2497	2033	1549	4688	4834	4013	3405	4005	3364	2680	5602	4486	4902	4063	3021	
Pludmales	4142	1699	2048	2547	1637	2581	2300	2376	2878	2568	2671	2113	1456	960	813	1493	
Pludmales 1	4151	1714	2062	2562	1628	2575	2299	2379	2889	2581	2686	2109	1460	951	820	1508	
Rudzati	8155	5093	5021	5392	2378	1610	2375	2949	6873	6477	6372	5601	5402	4432	4821	5256	
Raceni	4971	2622	2890	3389	1055	2083	2130	2457	3768	3517	3645	2377	2151	1158	1661	2466	
Ruki	3343	4811	5362	5719	5327	6356	6294	6424	3391	3897	4567	1942	2821	3188	3462	4220	
Saulkrasti	6465	4227	4429	4914	1653	2156	2736	3303	5338	5139	5286	3464	3630	2523	3256	4106	
Saulītes	7700	4767	4751	5155	1951	1390	2211	2828	6440	6078	6021	5058	4914	3912	4360	4877	
Seglini	7764	4820	4799	5200	2011	1427	2245	2859	6502	6137	6077	5126	4980	3980	4424	4935	
Senlici	7712	4719	4683	5077	1942	1291	2102	2711	6440	6062	5984	5127	4944	3962	4374	4851	
Skola (kad. apz. 56960040345001)	5937	3502	3688	4172	960	1697	2123	2644	4751	4499	4599	3141	3103	2037	2644	3415	
Skola (kad. apz. 56960040345002)	5913	3464	3648	4131	922	1673	2089	2606	4723	4467	4563	3132	3080	2019	2616	3380	
Skola (kad. apz. 56960040345005)	5889	3450	3637	4122	928	1693	2100	2613	4700	4447	4546	3105	3055	1993	2594	3363	
Spridiš i	6145	3643	3803	4281	969	1576	2076	2627	4950	4684	4765	3359	3313	2254	2842	3582	
Starumeni	6775	4387	4547	5021	1661	1975	2636	3233	5619	5388	5496	3824	3935	2838	3520	4313	
Straumenini	5942	3681	3901	4392	1268	2000	2438	2953	4795	4584	4728	3029	3103	2006	2704	3549	
Strauti	5876	3479	3677	4163	998	1766	2173	2683	4696	4452	4563	3064	3040	1968	2591	3380	
Strautini	6161	3918	4131	4620	1429	2063	2567	3106	5025	4821	4967	3202	3324	2220	2938	3789	
Suš i	3756	4115	4643	5066	4117	5138	5152	5353	3310	3630	4218	985	2098	2074	2597	3563	
Sipolini	8082	4966	4877	5237	2309	1477	2213	2773	6790	6378	6253	5594	5352	4407	4756	5150	
Turaiki	6831	4151	4239	4691	1291	1361	2080	2698	5612	5310	5337	4073	4009	2964	3506	4162	
Tireli	8640	5322	5132	5421	2987	1989	2483	2894	7317	6842	6624	6386	6018	5159	5378	5601	
Tudalinas	5722	3508	3748	4243	1248	2072	2440	2923	4578	4376	4532	2819	2883	1786	2492	3356	
Upeļas (kad. apz. 56960040385)	5886	3489	3686	4172	1002	1765	2175	2687	4707	4463	4573	3072	3050	1978	2602	3390	
Upmales	4765	2129	2364	2861	1020	2000	1841	2057	3503	3176	3226	2516	2036	1267	1429	2044	
Upmalnieki	1220	4725	5131	5150	6995	7894	7419	7196	2548	3100	3558	4334	4027	5115	4554	4306	
Upmali	4621	1990	2243	2742	1158	2119	1911	2083	3354	3022	3074	2443	1911	1205	1289	1891	
Upiš i	4998	2555	2103	1613	4786	4940	4119	3512	4007	3372	2685	5649	4530	4967	4120	3069	
Vaivarini	8509	5231	5063	5369	2817	1840	2393	2842	7192	6730	6533	6201	5860	4981	5229	5490	
Vecveveri	7640	4504	4416	4781	1881	1014	1760	2336	6342	5922	5791	5222	4932	4015	4323	4692	
Viduslejas	6582	4336	4531	5016	1730	2184	2790	3365	5456	5256	5400	3572	3747	2640	3373	4220	
Viļņi i	5050	2677	2934	3432	995	2021	2092	2436	3846	3592	3713	2446	2231	1233	1738	2533	
Valodzes	7555	4553	4519	4913	1782	1132	1947	2560	6280	5898	5819	4995	4793	3821	4218	4687	
Vēji	7796	4847	4824	5224	2041	1447	2264	2876	6533	6167	6105	5159	5013	4013	4456	4964	
Vējini	7825	4872	4847	5245	2069	1466	2281	2892	6562	6195	6131	5190	5042	4043	4485	4991	
Vejkalni	6942	4227	4300	4747	1358	1331	2078	2702	5718	5407	5424	4198	4124	3084	3614	4251	
Veveri	7736	4532	4413	4758	2014	1066	1733	2271	6427	5987	5827	5395	5061	4175	4438	4751	
Veveri 1	7608	4451	4355	4715	1860	963	1692	2261	6306	5880	5740	5221	4912	4007	4297	4648	
Vīpes skola 1	5805	3420	3623	4112	986	1790	2171	2670	4626	4384	4497	2999	2969	1899	2521	3315	
Vīpmali	3739	3309	3814	4264	3197	4225	4207	4404	2969	3127	3626	458	1404	1126	1749	2798	
Zalumi	8149	4711	4456	4695	2777	1756	1951	2212	6811	6289	6003	6182	5667	4931	4996	5058	

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Project:

ZFT E alternativa Mezares

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## DECIBEL - Main Result

Calculation: Vestas V172-7.2 MW ST E alternativa 160724

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	NSA	WTG															
		E1	E10	E11	E12	E13	E14	E15	E16	E2	E3	E4	E5	E6	E7	E8	E9
Ziedini		6055	3781	3993	4482	1310	1989	2463	2992	4908	4696	4836	3131	3216	2118	2817	3656
Ziemeli		7855	4899	4872	5268	2098	1487	2300	2910	6592	6224	6158	5220	5073	4074	4515	5019
Ziemeļnieki		5630	2089	1648	1745	2574	2500	1678	1052	4321	3697	3240	4738	3805	3651	3151	2621
Zilītes		4982	3006	3328	3829	1488	2483	2630	2987	3861	3699	3914	2108	2146	1042	1807	2764
Zilusalā (Ozolsala)		6942	3388	2991	3098	2766	2166	1571	1196	5616	5012	4588	5673	4877	4474	4190	3872
Ergliši (Jaunie Vuš karnieki)		1559	4918	5287	5260	7311	8183	7671	7413	2821	3310	3693	4777	4398	5499	4887	4542
Ives		7633	4746	4748	5160	1907	1424	2247	2871	6382	6031	5990	4956	4837	3822	4294	4839
Kirši		7566	4633	4621	5027	1815	1273	2095	2717	6305	5942	5885	4939	4783	3786	4226	4741
Udensrozes		6951	3398	2988	3077	2861	2274	1668	1269	5629	5020	4583	5733	4922	4541	4238	3892
Udri		7220	3836	3634	3928	1855	878	1016	1400	5886	5383	5137	5236	4710	3984	4041	4145