DECIBEL - Main Result

Calculation: Noice_enercon

ISO 9613-2 German (Interimsverfahren)

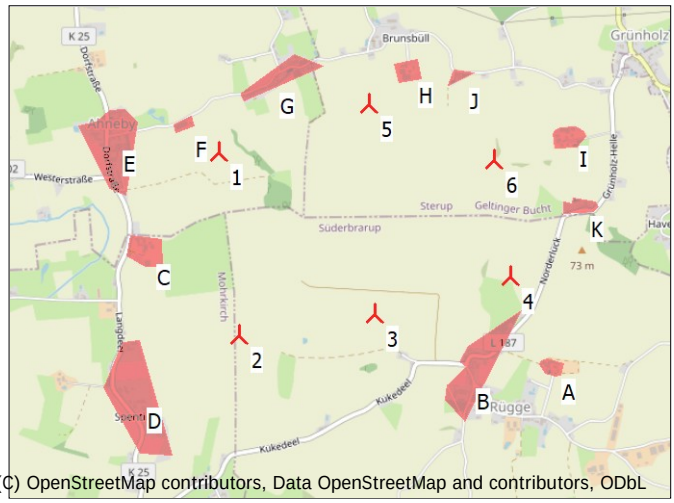
The calculation is based on the international norm "ISO 9613-2 Acoustics - Attenuation of sound during propagation outdoors"

Meteorological correction factor, C0: 0.0 dB

Die Immissionsrichtwerte entsprechend TA Lärm sind (Nacht / Tag):

Industriegebiet: 70 / 70 dB(A)
Kerngebiet, Dorf- und Mischgebiet: 45 / 60 dB(A)
Reines Wohngebiet: 35 / 50 dB(A)
Gewerbegebiet: 50 / 65 dB(A)
Allgemeines Wohngebiet, Kleinsiedlungsgebiet: 40 / 55 dB(A)
Kurgebiet, Krankenhaus, Pflegeanstalt: 35 / 45 dB(A)

All coordinates are in
UTM (north)-ETRS89 Zone: 32



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

Scale 1:40,000

New WTG Noise sensitive area

WTGs

	Easting	Northing	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Noise data Creator	Name	Wind speed	LwA,ref	Uncertainty
			[m]					[kW]	[m]	[m]			[m/s]	[dB(A)]	[dB(A)]
1	547,702	6,061,711	60.0	01_ENERCON E-147 EP5 E...	No	ENERCON	E-147 EP5 E2-5,000	5,000	147.0	126.0	USER	Mode 03 - OM 103.3 dB(A)	13.0	103.3	0.0
2	547,819	6,060,747	60.0	02_ENERCON E-147 EP5 E...	No	ENERCON	E-147 EP5 E2-5,000	5,000	147.0	126.0	USER	Mode 00 - OM 0 s - 5000 kW	12.5	106.4	0.0
3	548,537	6,060,868	60.0	03_ENERCON E-147 EP5 E...	No	ENERCON	E-147 EP5 E2-5,000	5,000	147.0	126.0	USER	Mode 00 - OM 0 s - 5000 kW	12.5	106.4	0.0
4	549,253	6,061,072	60.0	E04_NERCON E-147 EP5 E...	No	ENERCON	E-147 EP5 E2-5,000	5,000	147.0	126.0	USER	Mode 03 - OM 103.3 dB(A)	13.0	103.3	0.0
5	548,497	6,061,973	60.0	05_ENERCON E-147 EP5 E...	No	ENERCON	E-147 EP5 E2-5,000	5,000	147.0	126.0	USER	Mode 03 - OM 103.3 dB(A)	13.0	103.3	0.0
6	549,164	6,061,683	60.0	06_ENERCON E-147 EP5 E...	No	ENERCON	E-147 EP5 E2-5,000	5,000	147.0	126.0	USER	Mode 03 - OM 103.3 dB(A)	13.0	103.3	0.0

Calculation Results

Sound level

Noise sensitive area No.	Name	Easting	Northing	Z	Immission height	Demands Noise	Sound level From WTGs	Distance to noise demand	Demands fulfilled ? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[m]	
A	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (1)	549,421	6,060,629	53.8	5.0	45.0	41.7	180	Yes
B	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (2)	549,311	6,060,896	60.0	5.0	45.0	48.0	-110	No
C	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (3)	547,408	6,061,109	60.0	5.0	45.0	42.9	140	Yes
D	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (4)	547,317	6,060,618	70.0	5.0	45.0	42.5	132	Yes
E	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (5)	547,249	6,061,747	60.0	5.0	45.0	41.4	176	Yes
F	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (6)	547,568	6,061,853	60.0	5.0	45.0	47.4	-80	No
G	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (7)	547,830	6,061,989	60.0	5.0	45.0	44.7	13	Yes
H	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (8)	548,649	6,062,095	60.0	5.0	45.0	47.6	-99	No
I	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (9)	549,481	6,061,756	51.1	5.0	45.0	44.1	39	Yes
J	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (10)	548,910	6,062,081	60.0	5.0	45.0	43.8	101	Yes
K	Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (12)	549,532	6,061,410	60.0	5.0	45.0	43.7	88	Yes

Distances (m)

	WTG					
NSA	1	2	3	4	5	6
A	2032	1599	913	474	1631	1080
B	1669	1131	515	186	1348	800
C	553	548	1154	1846	1315	1817
D	1080	518	1240	1985	1746	2111
E	453	954	1461	2083	1234	1906
F	195	1124	1381	1857	937	1605
G	306	1242	1312	1492	321	1040
H	1022	1583	1232	1147	195	584
I	1771	1944	1296	721	982	326
J	1264	1724	1269	1065	427	469
K	1843	1837	1133	438	1147	422

DECIBEL - Detailed results

Calculation: Noice_enercon Noise calculation model: ISO 9613-2 German (Interimsverfahren) 10.0 m/s

Assumptions

Calculated L(DW) = LWA,ref + K + Dc - (Adiv + Aatm + Agr + Abar + Amisc) - Cmet
(when calculated with ground attenuation, then Dc = Domega)

LWA,ref:	Sound pressure level at WTG
K:	Pure tone
Dc:	Directivity correction
Adiv:	the attenuation due to geometrical divergence
Aatm:	the attenuation due to atmospheric absorption
Agr:	the attenuation due to ground effect
Abar:	the attenuation due to a barrier
Amisc:	the attenuation due to miscellaneous other effects
Cmet:	Meteorological correction

Calculation Results

Noise sensitive area: A Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (1)

Highest noise value

WTG No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	2,032	2,036	23.39	23.39	103.3	0.00	77.18	5.77	-3.00	0.00	0.00	79.94
2	1,607	1,612	29.23	29.23	106.4	0.00	75.14	5.07	-3.00	0.00	0.00	77.22
3	917	925	35.62	35.62	106.4	0.00	70.33	3.49	-3.00	0.00	0.00	70.82
4	475	491	39.32	39.32	103.3	0.00	64.82	2.19	-3.00	0.00	0.00	64.01
5	1,631	1,636	26.05	26.05	103.3	0.00	75.28	5.01	-3.00	0.00	0.00	77.28
6	1,085	1,092	30.74	30.74	103.3	0.00	71.77	3.83	-3.00	0.00	0.00	72.60
Sum				41.72								

Noise sensitive area: B Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (2)

Highest noise value

WTG No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1,804	1,808	24.85	24.85	103.3	0.00	76.14	5.34	-3.00	0.00	0.00	78.49
2	1,499	1,504	30.05	30.05	106.4	0.00	74.54	4.85	-3.00	0.00	0.00	76.39
3	775	784	37.44	37.44	106.4	0.00	68.89	3.11	-3.00	0.00	0.00	69.00
4	186	222	47.21	47.21	103.3	0.00	57.91	1.21	-3.00	0.00	0.00	56.12
5	1,349	1,355	28.27	28.27	103.3	0.00	73.64	4.42	-3.00	0.00	0.00	75.06
6	800	809	34.06	34.06	103.3	0.00	69.16	3.12	-3.00	0.00	0.00	69.28
Sum				47.97								

Noise sensitive area: C Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (3)

Highest noise value

WTG No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	670	681	35.90	35.90	103.3	0.00	67.67	2.76	-3.00	0.00	0.00	67.43
2	548	561	41.00	41.00	106.4	0.00	65.98	2.46	-3.00	0.00	0.00	65.44
3	1,154	1,160	33.07	33.07	106.4	0.00	72.29	4.07	-3.00	0.00	0.00	73.37
4	1,846	1,850	24.57	24.57	103.3	0.00	76.34	5.42	-3.00	0.00	0.00	78.76
5	1,390	1,396	27.93	27.93	103.3	0.00	73.90	4.51	-3.00	0.00	0.00	75.41
6	1,847	1,851	24.56	24.56	103.3	0.00	76.35	5.43	-3.00	0.00	0.00	78.77
Sum				42.94								

Noise sensitive area: D Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (4)

Highest noise value

WTG No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1,159	1,165	30.01	30.01	103.3	0.00	72.32	4.00	-3.00	0.00	0.00	73.32
2	519	532	41.56	41.56	106.4	0.00	65.51	2.37	-3.00	0.00	0.00	64.88
3	1,245	1,251	32.21	32.21	106.4	0.00	72.94	4.29	-3.00	0.00	0.00	74.23
4	1,989	1,992	23.66	23.66	103.3	0.00	76.99	5.69	-3.00	0.00	0.00	79.67

To be continued on next page...

DECIBEL - Detailed results

Calculation: Noice_enercon Noise calculation model: ISO 9613-2 German (Interimsverfahren) 10.0 m/s

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WTG

No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
5	1,797	1,801	24.90	24.90	103.3	0.00	76.11	5.33	-3.00	0.00	0.00	78.44
6	2,132	2,135	22.80	22.80	103.3	0.00	77.59	5.94	-3.00	0.00	0.00	80.53
Sum				42.49								

Noise sensitive area: E Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (5)

Highest noise value

WTG

No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	454	470	39.78	39.78	103.3	0.00	64.44	2.12	-3.00	0.00	0.00	63.56
2	1,151	1,157	33.10	33.10	106.4	0.00	72.27	4.07	-3.00	0.00	0.00	73.34
3	1,559	1,563	29.59	29.59	106.4	0.00	74.88	4.97	-3.00	0.00	0.00	76.85
4	2,114	2,118	22.90	22.90	103.3	0.00	77.52	5.91	-3.00	0.00	0.00	80.43
5	1,269	1,274	28.98	28.98	103.3	0.00	73.11	4.25	-3.00	0.00	0.00	74.35
6	1,916	1,920	24.12	24.12	103.3	0.00	76.66	5.55	-3.00	0.00	0.00	79.22
Sum				41.37								

Noise sensitive area: F Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (6)

Highest noise value

WTG

No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	195	229	46.89	46.89	103.3	0.00	58.20	1.24	-3.00	0.00	0.00	56.44
2	1,134	1,141	33.27	33.27	106.4	0.00	72.14	4.03	-3.00	0.00	0.00	73.17
3	1,381	1,387	31.01	31.01	106.4	0.00	73.84	4.59	-3.00	0.00	0.00	75.43
4	1,857	1,861	24.50	24.50	103.3	0.00	76.39	5.44	-3.00	0.00	0.00	78.84
5	937	945	32.36	32.36	103.3	0.00	70.51	3.47	-3.00	0.00	0.00	70.97
6	1,605	1,609	26.25	26.25	103.3	0.00	75.13	4.95	-3.00	0.00	0.00	77.09
Sum				47.38								

Noise sensitive area: G Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (7)

Highest noise value

WTG

No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	306	329	43.37	43.37	103.3	0.00	61.34	1.63	-3.00	0.00	0.00	59.97
2	1,242	1,248	32.24	32.24	106.4	0.00	72.92	4.28	-3.00	0.00	0.00	74.20
3	1,325	1,330	31.50	31.50	106.4	0.00	73.48	4.47	-3.00	0.00	0.00	74.95
4	1,693	1,697	25.61	25.61	103.3	0.00	75.59	5.13	-3.00	0.00	0.00	77.72
5	667	678	35.95	35.95	103.3	0.00	67.63	2.76	-3.00	0.00	0.00	67.38
6	1,368	1,374	28.11	28.11	103.3	0.00	73.76	4.46	-3.00	0.00	0.00	75.22
Sum				44.73								

Noise sensitive area: H Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (8)

Highest noise value

WTG

No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1,022	1,029	31.41	31.41	103.3	0.00	71.25	3.68	-3.00	0.00	0.00	71.93
2	1,583	1,588	29.40	29.40	106.4	0.00	75.02	5.02	-3.00	0.00	0.00	77.04
3	1,232	1,238	32.33	32.33	106.4	0.00	72.85	4.26	-3.00	0.00	0.00	74.11
4	1,188	1,194	29.73	29.73	103.3	0.00	72.54	4.07	-3.00	0.00	0.00	73.60
5	195	229	46.89	46.89	103.3	0.00	58.20	1.24	-3.00	0.00	0.00	56.45
6	659	670	36.07	36.07	103.3	0.00	67.53	2.73	-3.00	0.00	0.00	67.26
Sum				47.62								

Noise sensitive area: I Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (9)

Highest noise value

WTG

No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1,780	1,784	25.01	25.01	103.3	0.00	76.03	5.30	-3.00	0.00	0.00	78.33
2	1,944	1,949	26.91	26.91	106.4	0.00	76.79	5.74	-3.00	0.00	0.00	79.53

To be continued on next page...

DECIBEL - Detailed results

Calculation: Noice_enercon Noise calculation model: ISO 9613-2 German (Interimsverfahren) 10.0 m/s

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WTG No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
3	1,296	1,303	31.74	31.74	106.4	0.00	73.30	4.40	-3.00	0.00	0.00	74.70
4	721	732	35.14	35.14	103.3	0.00	68.29	2.91	-3.00	0.00	0.00	68.20
5	1,007	1,015	31.56	31.56	103.3	0.00	71.13	3.64	-3.00	0.00	0.00	71.78
6	326	350	42.75	42.75	103.3	0.00	61.88	1.71	-3.00	0.00	0.00	60.59
Sum				44.12								

Noise sensitive area: J Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (10)

Highest noise value

WTG No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1,264	1,270	29.02	29.02	103.3	0.00	73.08	4.24	-3.00	0.00	0.00	74.31
2	1,724	1,728	28.38	28.38	106.4	0.00	75.75	5.31	-3.00	0.00	0.00	78.06
3	1,269	1,275	31.99	31.99	106.4	0.00	73.11	4.34	-3.00	0.00	0.00	74.45
4	1,065	1,072	30.95	30.95	103.3	0.00	71.60	3.78	-3.00	0.00	0.00	72.39
5	427	444	40.35	40.35	103.3	0.00	63.95	2.04	-3.00	0.00	0.00	62.98
6	472	487	39.40	39.40	103.3	0.00	64.76	2.18	-3.00	0.00	0.00	63.94
Sum				43.78								

Noise sensitive area: K Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (12)

Highest noise value

WTG No.	Distance [m]	Sound distance [m]	From WTGs [dB(A)]	WTG + Uncertainty margin [dB]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]
1	1,855	1,858	24.51	24.51	103.3	0.00	76.38	5.44	-3.00	0.00	0.00	78.82
2	1,837	1,840	27.61	27.61	106.4	0.00	76.30	5.53	-3.00	0.00	0.00	78.83
3	1,133	1,139	33.28	33.28	106.4	0.00	72.13	4.02	-3.00	0.00	0.00	73.16
4	438	453	40.14	40.14	103.3	0.00	64.13	2.07	-3.00	0.00	0.00	63.20
5	1,178	1,183	29.83	29.83	103.3	0.00	72.46	4.04	-3.00	0.00	0.00	73.50
6	458	473	39.72	39.72	103.3	0.00	64.49	2.13	-3.00	0.00	0.00	63.62
Sum				43.74								

DECIBEL - Assumptions for noise calculation

Calculation: Noice_enercon

Noise calculation model:
ISO 9613-2 German (Interimsverfahren)
Wind speed (at hubheight):
Highest noise value
Ground attenuation:
Fixed values, Agr: -3.0, Dc: 0.0
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:
Fixed penalty added to source noise of WTGs with pure tones
WTG catalogue
Height above ground level, when no value in NSA object:
5.0 m; 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)
Octave data required
Frequency dependent air absorption

63	125	250	500	1,000	2,000	4,000	8,000
[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]
0.10	0.40	1.00	1.90	3.70	9.70	32.80	117.00

All coordinates are in
UTM (north)-ETRS89 Zone: 32

WTG: ENERCON E-147 EP5 E2 5000 147.0 !O!
Noise: Mode 03 - OM 103.3 dB(A)

Source	Source/Date	Creator	Edited
ENERCON GmbH	2/10/2020	USER	2/10/2020 10:06 AM

The sound power levels do not include uncertainties.
According to manufacturer specification document (D0842288-1/D0841792-0).
ENERCON GmbH reserves the right to change the above specifications without prior notice.

Status	Wind speed (hh) [m/s]	LwA,ref [dB(A)]	Pure tones	Octave data 63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
From Windcat	13.0	103.3	No	83.6	89.8	93.8	97.0	98.0	96.6	92.5	85.4

WTG: ENERCON E-147 EP5 E2 5000 147.0 !O!
Noise: Mode 00 - OM 0 s - 5000 kW

Source	Source/Date	Creator	Edited
ENERCON GmbH	2/10/2020	USER	2/10/2020 10:05 AM

The sound power levels do not include uncertainties.
According to manufacturer specification document (D0802432-3/D0820251-1).
ENERCON GmbH reserves the right to change the above specifications without prior notice.

Status	Wind speed (hh) [m/s]	LwA,ref [dB(A)]	Pure tones	Octave data 63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
From Windcat	12.5	106.4	No	86.0	92.4	96.6	100.1	101.2	99.7	95.8	89.0

Noise sensitive area: A Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (1)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45.0 dB(A)
No distance demand

DECIBEL - Assumptions for noise calculation

Calculation: Noice_enercon

Noise sensitive area: B Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (2)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45.0 dB(A)
No distance demand

Noise sensitive area: C Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (3)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45.0 dB(A)
No distance demand

Noise sensitive area: D Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (4)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45.0 dB(A)
No distance demand

Noise sensitive area: E Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (5)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45.0 dB(A)
No distance demand

Noise sensitive area: F Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (6)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45.0 dB(A)
No distance demand

Noise sensitive area: G Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (7)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45.0 dB(A)
No distance demand

Noise sensitive area: H Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (8)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45.0 dB(A)
No distance demand

Noise sensitive area: I Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (9)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45.0 dB(A)
No distance demand

Noise sensitive area: J Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (10)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Noice_enercon

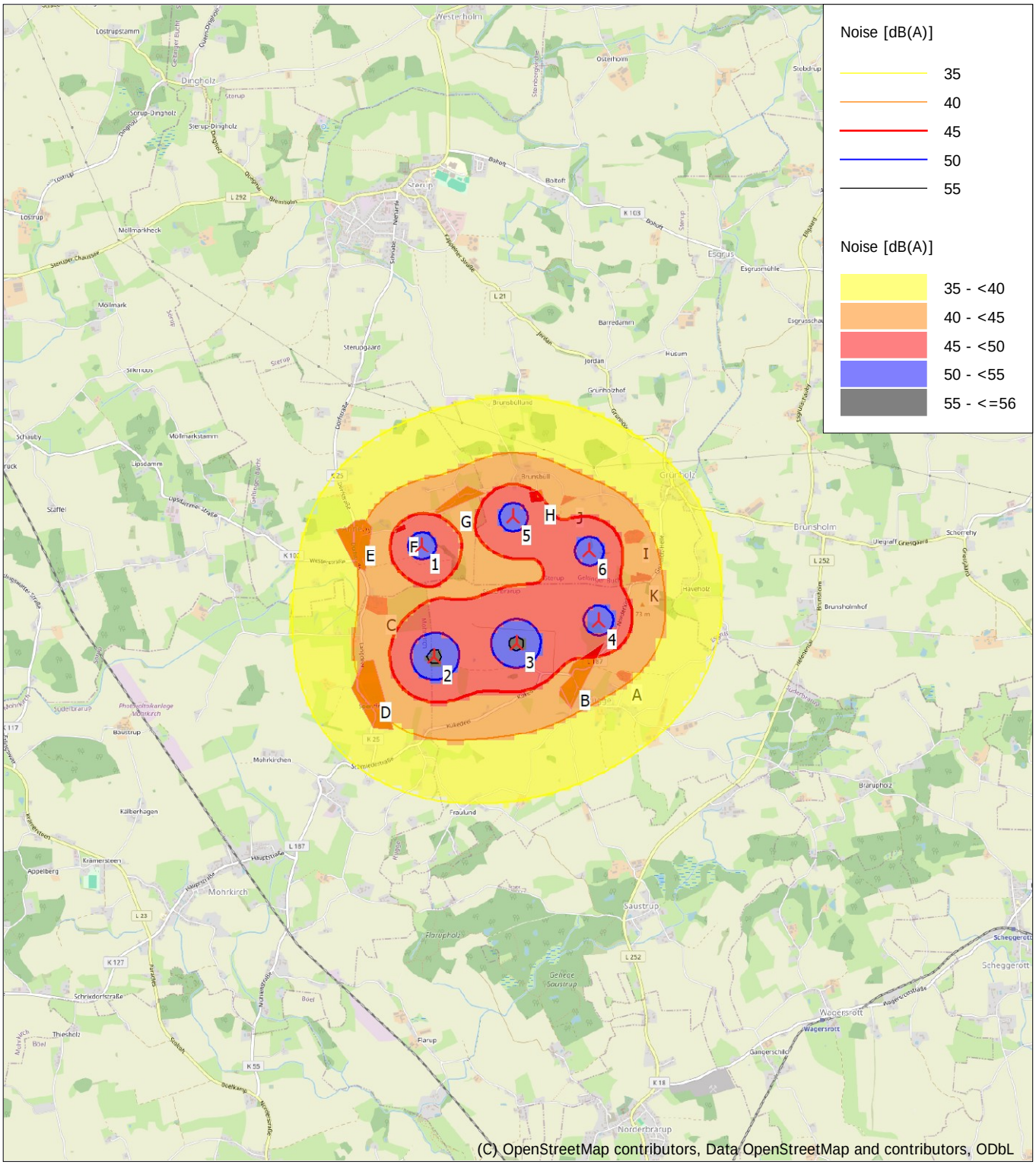
Noise demand: 45.0 dB(A)
No distance demand

Noise sensitive area: K Noise sensitive area: German TA Lärm - Rural villages, Mixed areas (12)

Predefined calculation standard: Rural villages, Mixed areas
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 45.0 dB(A)
No distance demand

DECIBEL - Map Highest noise value

Calculation: Noice_enercon



Map: EMD OpenStreetMap , Print scale 1:50,000, Map center UTM (north)-ETRS89 Zone: 32 East: 548,477 North: 6,061,360

New WTG Noise sensitive area

Noise calculation model: ISO 9613-2 German (Interimsverfahren). Wind speed: Highest noise value
Height above sea level from active line object