

Project:
Barzowice

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Licensed user:
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Calculated:
2014-11-20 14:02/2.8.552

DECIBEL - Detailed results

Calculation: wariant 1 G=0,3 **Noise calculation model:** ISO 9613-2 General 8,0 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 point: (1)

WTG **Wind speed: 8,0 m/s**

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	781	782	30,67	100,0	0,00	68,87	-	-	0,00	0,00	-	0,00

Sum 30,67

- Data undefined due to calculation with octave data

Noise sensitive area: B Noise sensitive point: (2)

WTG **Wind speed: 8,0 m/s**

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	836	837	29,96	100,0	0,00	69,46	-	-	0,00	0,00	-	0,00

Sum 29,96

- Data undefined due to calculation with octave data

Noise sensitive area: C Noise sensitive point: (3)

WTG **Wind speed: 8,0 m/s**

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1 049	1 049	27,53	100,0	0,00	71,42	-	-	0,00	0,00	-	0,00

Sum 27,53

- Data undefined due to calculation with octave data

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DECIBEL - Assumptions for noise calculation

Calculation: variant 1 G=0,3 **Noise calculation model:** ISO 9613-2 General 8,0 m/s

Noise calculation model:

ISO 9613-2 General

Wind speed:

8,0 m/s

Ground attenuation:

General, Ground factor: 0,3

Meteorological coefficient, C0:

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 and Impulse tone penalty are added to WTG source noise

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

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:

0,0 dB(A)

Octave data required

Air absorption

63	125	250	500	1 000	2 000	4 000	8 000
[db/km]							
0,1	0,4	1,0	1,9	3,7	9,7	32,8	117,0

WTG: ENERCON E-33 300 33.0 !O!

Noise: 8m/s DEWI 09/92

Source Source/Date Creator Edited
DEWI 1992-09-23 EMD 2003-08-08 16:34

Status	Wind speed	LwA,ref	Pure tones	Octave data								
				63	125	250	500	1000	2000	4000	8000	
[m/s]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	
User value	8,0	100,0	No	Generic data	81,6	88,6	92,0	94,6	94,4	91,5	86,7	77,2

NSA: Noise sensitive point: (1)-A

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 45,0 dB(A)

Distance demand:

NSA: Noise sensitive point: (2)-B

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 45,0 dB(A)

Distance demand:

NSA: Noise sensitive point: (3)-C

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Noise demand: 45,0 dB(A)

Distance demand:

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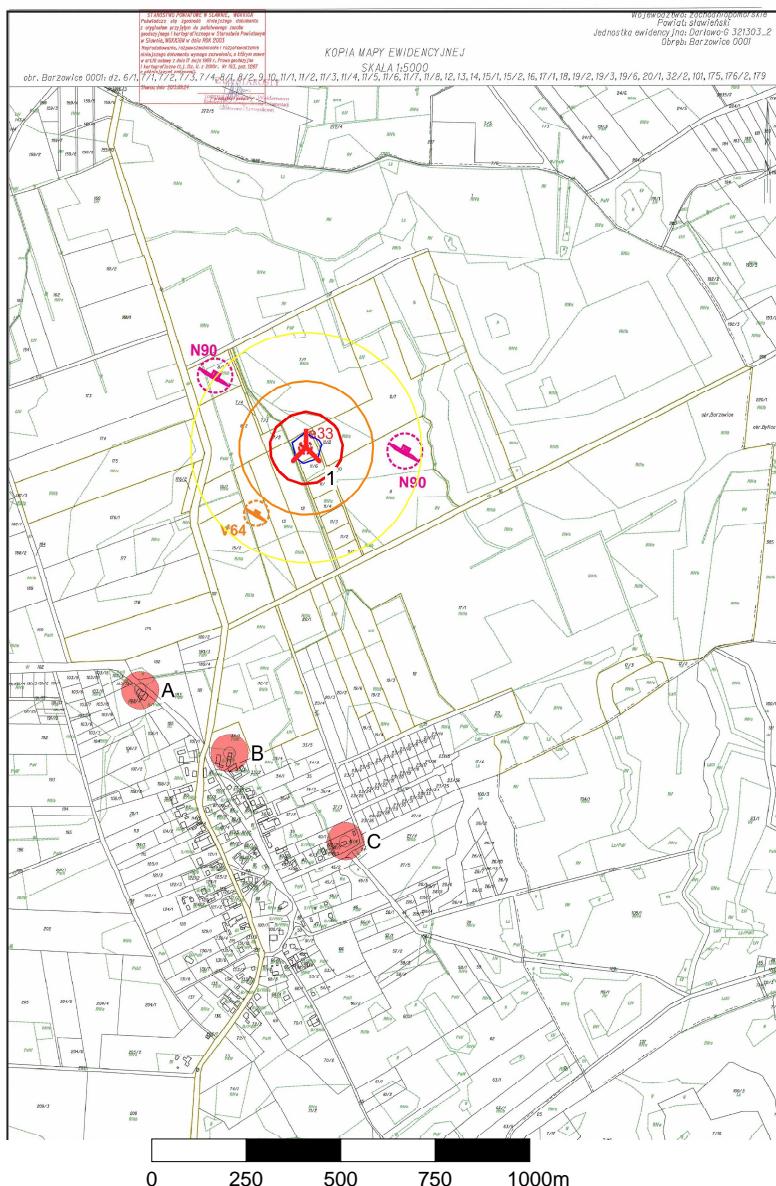
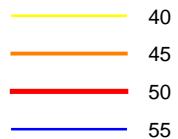
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DECIBEL - Map 8,0 m/s**Calculation: variant 1 G=0,3 Noise calculation model: ISO 9613-2 General 8,0 m/s**

Noise [dB(A)]



Map: mapa , Print scale 1:20 000, Map center Geo WGS84 East: 16°30'42,86" East North: 54°29'18,82" North

New WTG

Noise sensitive area

Noise calculation model: ISO 9613-2 General. Wind speed: 8,0 m/s

Height above sea level from active line object