



Project:

Swierczyny_gm. Bartniczka

Description:

Elektrownia wiatrowa o mocy do 1 MW, lokalizacja działka nr 277/2 obreb Swierczyny, gmina Bartniczka

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WindProject
ul. Sokola 13/6
PL-82 500 Kwidzyn
+48 609540877
mgr Alina Cieslak / a.cieslak@windproject.pl
Calculated:
2015-07-29 09:09/2.9.285

DECIBEL - Main Result

Calculation: Analiza akustyczna EW 1 MW_dz. 277/2

Noise calculation model:

ISO 9613-2 Poland

Wind speed:

10,0 m/s

Ground attenuation:

General, Ground factor: 0,0

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 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)



Scale 1:20 000

📍 New WTG

🏠 Noise sensitive area

WTGs

Polish GK 1992/19-ETRS89				WTG type		Noise data				Wind speed	Status	Lwa,ref	Pure tones				
East	North	Z	Row	Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Creator	Name	[m/s]		[dB(A)]			
[m]																	
1	531 077	595 124	142,9	1	MW	No	elektrownia wiatrowa 1,0 MW	-1 000	1 000	60,0	80,0	USER	Level 0 - measured - 0 -07-2006	10,0	User value	102,0	0 dB

h) Generic octave distribution used

Calculation Results

Sound Level

No.	Name	East	North	Z	Imission height	Noise	Sound Level	Distance to noise demand	Demands fulfilled ?
		Polish GK 1992/19-ETRS89				[dB(A)]	[dB(A)]	[m]	Noise
		East	North	Z	[m]	[dB(A)]	[dB(A)]	[m]	
A	A	530 769	595 418	142,0	4,0	45,0	39,8	185	Yes
B	B	531 004	595 490	144,0	4,0	45,0	41,0	133	Yes
C	C	531 529	594 879	142,3	4,0	45,0	38,0	275	Yes
D	D	530 712	595 032	136,5	4,0	45,0	40,9	137	Yes
E	E	531 082	594 861	141,6	4,0	45,0	44,2	25	Yes
F	F	530 779	594 898	135,9	4,0	45,0	41,0	137	Yes
G	G	531 174	594 662	140,3	4,0	45,0	38,8	233	Yes
H	H	531 359	594 547	140,4	4,0	45,0	35,7	403	Yes

Distances (m)

WTG	
NSA	1
A	425
B	373
C	515
D	376
E	263
F	374
G	473
H	643