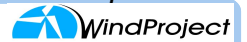


Project:

Swierczyny\_gm. Bartniczka

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Calculated:

2015-07-29 09:17/2.9.285

## DECIBEL - Main Result

Calculation: planowane\_GF=0\_pora\_nocy\_wariant II

Noise calculation model:

ISO 9613-2 General

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:

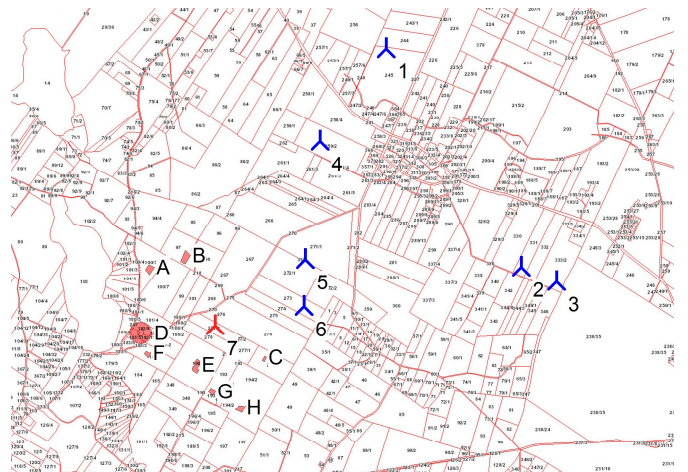
Pure and Impulse tone penalty are added to WTG source noise

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)



New WTG

Noise sensitive area

## WTGs

Polish GK 1992/19-ETRS89				WTG type		Type-generator		Power, rated		Rotor diameter		Hub height		Noise data		Wind speed		Status		Lwa_ref		Pure tones	
East	North	Z	Row data/Description	Valid	Manufact.			[kW]	[m]	[m]	[m]	Creator	Name	[m/s]		[dB(A)]							
		[m]																					
1	532 332	596 911	136,0	Swierczyny 245	No	elektrownia wiatrowa 1000 kW	-1 000/250	1 000	60,0	80,0	80,0	USER	8m/s WICO/Man 18-09-99	10,0	User value	102,0		0	dB	h			
2	533 224	595 469	143,3	Swierczyny 331; 336	No	elektrownia wiatrowa 2,0	-2 000	2 000	71,0	85,0	85,0	USER	Level 0 - man.spec. - OM I / Rev 1.1 - 04/2012	10,0	User value	103,0		0	dB	h			
3	533 457	595 372	135,5	Swierczyny 333/2	No	elektrownia wiatrowa 2,0	-2 000	2 000	71,0	85,0	85,0	USER	Level 0 - man.spec. - OM I / Rev 1.1 - 04/2012	10,0	User value	103,0		0	dB	h			
4	531 895	596 303	139,4	Brodnica-Podgórz-EW1	Yes	VESTAS	V90-2 000	2 000	90,0	125,0	125,0	EMD	Level 0 - calculated - Mode 0 - 07-2009	10,0	User value	104,0		0	dB	h			
5	531 799	595 519	152,0	Brodnica-Podgórz-EW3	Yes	VESTAS	V90-2 000	2 000	90,0	125,0	125,0	EMD	Level 0 - calculated - Mode 0 - 07-2009	10,0	User value	104,0		0	dB	h			
6	531 791	595 207	142,7	Brodnica-Podgórz-EW4	Yes	VESTAS	V90-2 000	2 000	90,0	125,0	125,0	EMD	Level 0 - calculated - Mode 0 - 07-2009	10,0	User value	104,0		0	dB	h			
7	531 203	595 081	143,9	1 MW_wariant II	No	elektrownia wiatrowa 1,0 MW	-1 000	1 000	60,0	80,0	80,0	USER	Level 0 - measured - 0 - 07-2006	10,0	User value	98,0		0	dB	h			

h) Generic octave distribution used

## Calculation Results

### Sound Level

No.	Name	Polish GK 1992/19-ETRS89			Imission height [m]	Demands Noise [dB(A)]	Sound Level		Distance to noise demand [m]	Demands fulfilled ? Noise
		East	North	Z [m]			From WTGs [dB(A)]			
A	A	530 803	595 469	142,0	4,0	45,0	38,7	379	Yes	
B	B	531 041	595 546	144,0	4,0	45,0	40,8	297	Yes	
C	C	531 529	594 879	142,3	4,0	45,0	44,1	52	Yes	
D	D	530 712	595 032	136,5	4,0	45,0	38,2	321	Yes	
E	E	531 082	594 861	141,6	4,0	45,0	42,6	81	Yes	
F	F	530 779	594 898	135,9	4,0	45,0	38,5	292	Yes	
G	G	531 174	594 662	140,3	4,0	45,0	39,9	242	Yes	
H	H	531 390	594 544	140,4	4,0	45,0	39,3	381	Yes	

### Distances (m)

NSA	WTG						
	1	2	3	4	5	6	7
A	2103	2422	2657	1375	998	1022	549
B	1879	2185	2423	1142	759	823	455
C	2186	1785	1980	1471	695	418	384
D	2482	2551	2767	1737	1192	1093	494
E	2402	2214	2416	1656	969	779	252
F	2544	2512	2721	1795	1195	1059	463
G	2530	2180	2366	1794	1057	811	421
H	2549	2050	2222	1831	1058	775	557