

Project: <b>EW Zawidz-Raciaz</b>	Description: Działki ewidencyjne: 156 i 67 obr. Osiek Piaseczny, 32 obr. Milewo.  Emitory dźwięku: EW Osiek (156), EW Osiek (67), EW Milewo (32): - wysokość masztu: 60 m, - moc akustyczna: 106,0 dB (A), - współczynnik szorstkości gruntu G=0 (zasada przezorności, niezgodnie z PN-ISO 9613-2:2002 Akustyka).  Punkty emisji równowaznego poziomu dźwięku: - H1: H15.	Printed/Page: 2014-02-02 17:18 / 1  Licensed user: <b>NATURO Piotr Dmochowski</b> ul. Owsiana 1A PL-81-020 Gdynia (+48) 501 552 536 Piotr Dmochowski / piotr@naturo.info Calculated: 2014-02-02 13:17/2,8.579
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## DECIBEL - Main Result

**Calculation:** Zal. 4.2 Analiza akustyczna (oddziaływanie skumulowane) (zasada przezorności)

### Noise calculation model:

ISO 9613-2 General

### Wind speed:

13,0 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:

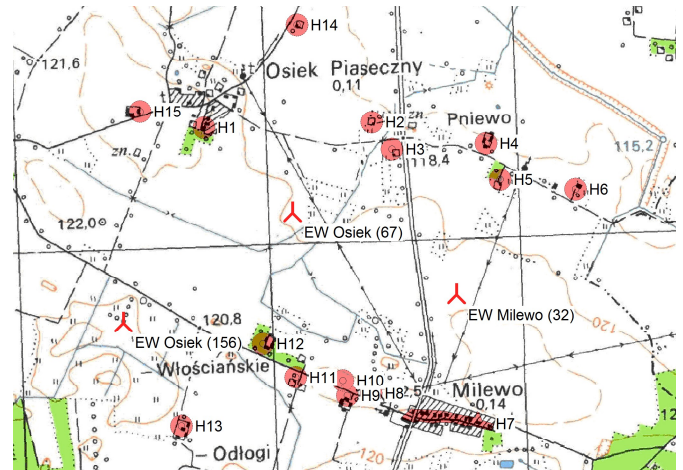
Pure and Impulse tone penalty are added to WTG source noise

### Height above ground level, when no value in NSA object:

4,0 m 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)



Scale 1:30 000  
▲ New WTG      ■ Noise sensitive area

## WTGs

	Polish GK 1992/19-ETRS89			Row data/Description	WTG type			Noise data								
	East	North	Z		Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Creator	Name	Wind speed [m/s]	Status	LwA,ref [dB(A)]	Pure tones
			[m]													
EW Milewo (32)	564 377	547 785	121,5	VESTAS V80-2.0MW 2000 ...	Yes	VESTAS	V80-2.0MW-2 000	2 000	80,0	60,0	EMD	Mode 0	13,0	User value	106,0	0 dB h
EW Osiek (156)	563 054	547 673	120,0	VESTAS V80-2.0MW 2000 ...	Yes	VESTAS	V80-2.0MW-2 000	2 000	80,0	60,0	EMD	Mode 0	13,0	User value	106,0	0 dB h
EW Osiek (67)	563 726	548 113	120,0	VESTAS V80-2.0MW 2000 ...	Yes	VESTAS	V80-2.0MW-2 000	2 000	80,0	60,0	EMD	Mode 0	13,0	User value	106,0	0 dB h

h) Generic octave distribution used

## Calculation Results

### Sound Level

Noise sensitive area No.	Name	Polish GK 1992/19-ETRS89			Imission height [m]	Demands Noise [dB(A)]	Sound Level From WTGs [dB(A)]	Demands fulfilled ? Noise
		East	North	Z [m]				
H1	Noise sensitive point: (1)	563 374	548 452	122,0	4,0	45,0	44,0	Yes
H10	Noise sensitive point: (10)	563 926	547 444	122,5	4,0	45,0	44,0	Yes
H11	Noise sensitive point: (11)	563 738	547 456	122,0	4,0	45,0	43,7	Yes
H12	Noise sensitive point: (12)	563 608	547 589	121,5	4,0	45,0	45,2	No
H13	Noise sensitive point: (13)	563 285	547 263	121,2	4,0	45,0	44,0	Yes
H14	Noise sensitive point: (36)	563 744	548 858	118,5	4,0	45,0	40,0	Yes
H15	Noise sensitive point: (37)	563 120	548 516	123,0	4,0	45,0	41,2	Yes
H2	Noise sensitive point: (2)	564 041	548 474	118,0	4,0	45,0	44,3	Yes
H3	Noise sensitive point: (3)	564 121	548 367	118,0	4,0	45,0	44,9	Yes
H4	Noise sensitive point: (4)	564 495	548 390	117,8	4,0	45,0	42,3	Yes
H5	Noise sensitive point: (5)	564 550	548 245	118,0	4,0	45,0	43,7	Yes
H6	Noise sensitive point: (6)	564 850	548 206	118,0	4,0	45,0	41,1	Yes
H7	Noise sensitive area: (7)	564 299	547 325	122,0	4,0	45,0	44,0	Yes
H8	Noise sensitive point: (8)	564 038	547 391	122,5	4,0	45,0	43,9	Yes
H9	Noise sensitive point: (9)	563 944	547 383	122,5	4,0	45,0	43,4	Yes

### Distances (m)

WTG	NSA	EW Osiek (156)	EW Osiek (67)	EW Milewo (32)
H1		842	489	1205
H10		902	698	566
H11		718	657	719
H12		561	537	794
H13		471	958	1211
H14		1372	745	1246
H15		846	728	1455
H2		1272	479	767

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### WTG

NSA	EW Osiek (156)	EW Osiek (67)	EW Milewo (32)
H3	1273	470	636
H4	1610	818	617
H5	1602	835	492
H6	1874	1128	633
H7	1169	914	465
H8	1024	787	520
H9	936	762	591