Project:
Czerniejewo ver 2

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Calculated:
2015-04-24 09:05/2.9.285

DECIBEL - Main Result

Calculation: wariant alternatywny

Noise calculation model:
ISO 9613-2 Poland
Wind speed:
10,0 m/s
Ground attenuation:
Alternative
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 1:75 000
New WTG Noise sensitive area

WTGs

	Geo DMS: WGS 84 Longitude	Latitude	Z [m]	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data Creator	Name	Wind speed [m/s]	Status	LwA,ref [dB(A)]	Pure tones
1	17°32'59,43" East	52°26'11,74" North	106,0	SWT 4.3	Yes	SWT	W 130 (106,5 dB)-2 500	2 500	114,0	123,0	USER	Runtime input	10,0	User value	106,5	0 dB

Calculation Results

Sound Level

Noise sensitive area No.	Name	Geo DMS: WGS 84 Longitude	Latitude	Z [m]	Imission height [m]	Demands Noise [dB(A)]	Demands Distance [m]	Sound Level From WTGs [dB(A)]	Distance to noise demand [m]	Demands fulfilled ? Noise	Distance	All
A	Noise sensitive point: (60)	17°30'36,74" East	52°25'40,03" North	108,8	4,0	45,0	450	19,9	2 455	Yes	Yes	Yes
B	Noise sensitive point: (62)	17°30'32,45" East	52°25'38,68" North	108,8	4,0	45,0	450	19,4	2 546	Yes	Yes	Yes
C	Noise sensitive point: (63)	17°30'36,38" East	52°25'47,77" North	108,0	4,0	45,0	450	20,2	2 389	Yes	Yes	Yes
D	Noise sensitive point: (66)	17°30'41,83" East	52°25'38,57" North	109,1	4,0	45,0	450	20,2	2 381	Yes	Yes	Yes
E	Noise sensitive area: (67)	17°31'02,34" East	52°25'34,73" North	108,0	4,0	40,0	450	21,9	1 870	Yes	Yes	Yes
F	Noise sensitive point: (68)	17°31'05,01" East	52°25'36,44" North	108,0	4,0	45,0	450	22,3	2 008	Yes	Yes	Yes
G	Noise sensitive point: (69)	17°31'09,14" East	52°25'34,34" North	108,0	4,0	45,0	450	22,5	1 970	Yes	Yes	Yes
H	Noise sensitive point: (70)	17°31'15,37" East	52°25'32,81" North	108,0	4,0	45,0	450	23,0	1 892	Yes	Yes	Yes
I	Noise sensitive point: (71)	17°31'23,34" East	52°25'30,72" North	108,0	4,0	45,0	450	23,6	1 802	Yes	Yes	Yes
J	Noise sensitive point: (72)	17°31'33,00" East	52°25'29,07" North	107,7	4,0	45,0	450	24,3	1 686	Yes	Yes	Yes
K	Noise sensitive point: (73)	17°31'27,22" East	52°25'29,96" North	108,0	4,0	45,0	450	23,9	1 756	Yes	Yes	Yes
L	Noise sensitive point: (74)	17°31'41,12" East	52°25'28,33" North	107,8	4,0	45,0	450	25,0	1 585	Yes	Yes	Yes
M	Noise sensitive point: (75)	17°31'39,79" East	52°25'29,79" North	107,5	4,0	45,0	450	25,1	1 573	Yes	Yes	Yes
N	Noise sensitive point: (76)	17°31'38,12" East	52°25'27,47" North	107,9	4,0	45,0	450	24,6	1 644	Yes	Yes	Yes
O	Noise sensitive point: (77)	17°31'51,54" East	52°25'23,06" North	108,0	4,0	45,0	450	25,1	1 565	Yes	Yes	Yes
P	Noise sensitive point: (78)	17°31'54,89" East	52°25'25,24" North	108,0	4,0	45,0	450	25,8	1 472	Yes	Yes	Yes
Q	Noise sensitive point: (160)	17°33'13,57" East	52°26'37,49" North	107,0	4,0	45,0	450	36,2	427	Yes	Yes	Yes
R	Noise sensitive point: (161)	17°33'11,35" East	52°26'34,53" North	107,2	4,0	45,0	450	37,8	327	Yes	Yes	Yes
S	Noise sensitive point: (163)	17°32'50,56" East	52°26'38,03" North	108,9	4,0	45,0	450	36,3	416	Yes	Yes	Yes
T	Noise sensitive point: (164)	17°32'48,49" East	52°26'38,64" North	109,3	4,0	45,0	450	35,9	443	Yes	Yes	Yes
U	Noise sensitive point: (165)	17°32'45,96" East	52°26'33,01" North	109,3	4,0	45,0	450	38,3	291	Yes	Yes	Yes
V	Noise sensitive point: (166)	17°32'43,83" East	52°26'29,22" North	108,5	4,0	45,0	450	40,1	202	Yes	Yes	Yes
W	Noise sensitive point: (167)	17°32'42,30" East	52°26'27,95" North	108,0	4,0	45,0	450	40,5	183	Yes	Yes	Yes
X	Noise sensitive point: (168)	17°32'43,82" East	52°26'25,74" North	108,0	4,0	45,0	450	42,2	110	Yes	Yes	Yes
Y	Noise sensitive point: (169)	17°34'11,05" East	52°26'21,26" North	110,0	4,0	45,0	450	29,8	972	Yes	Yes	Yes
Z	Noise sensitive point: (170)	17°34'18,22" East	52°26'10,81" North	110,0	4,0	45,0	450	28,9	1 076	Yes	Yes	Yes
AA	Noise sensitive point: (173)	17°34'18,12" East	52°26'06,73" North	110,0	4,0	45,0	450	28,8	1 082	Yes	Yes	Yes
AB	Noise sensitive point: (174)	17°34'17,49" East	52°26'04,57" North	110,0	4,0	45,0	450	28,9	1 079	Yes	Yes	Yes
AC	Noise sensitive point: (175)	17°34'14,89" East	52°26'00,91" North	109,7	4,0	45,0	450	29,1	1 052	Yes	Yes	Yes
AD	Noise sensitive point: (176)	17°34'13,61" East	52°25'58,08" North	109,0	4,0	45,0	450	29,1	1 051	Yes	Yes	Yes
AE	Noise sensitive point: (177)	17°34'10,22" East	52°25'53,83" North	108,3	4,0	45,0	450	29,2	1 035	Yes	Yes	Yes

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DECIBEL - Main Result

Calculation: wariant alternatywny

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Noise sensitive area		Geo DMS: WGS 84				Demands		Sound Level		Demands fulfilled ?		
No.	Name	Longitude	Latitude	Z	Imission height	Noise	Distance	From WTGs	Distance to noise demand	Noise	Distance	All
				[m]	[m]	[dB(A)]	[m]	[dB(A)]	[m]			
AF	Noise sensitive point: (178)	17°34'08,91" East	52°25'51,83" North	109,5	4,0	45,0	450	29,2	1 037	Yes	Yes	Yes
AG	Noise sensitive point: (179)	17°34'07,47" East	52°25'49,99" North	110,0	4,0	45,0	450	29,2	1 038	Yes	Yes	Yes
AH	Noise sensitive point: (180)	17°34'06,07" East	52°25'46,50" North	110,0	4,0	45,0	450	29,0	1 068	Yes	Yes	Yes
AI	Noise sensitive point: (181)	17°33'57,23" East	52°25'44,81" North	109,4	4,0	45,0	450	29,9	960	Yes	Yes	Yes
AJ	Noise sensitive point: (182)	17°34'03,90" East	52°25'43,15" North	110,0	4,0	45,0	450	28,8	1 092	Yes	Yes	Yes
AK	Noise sensitive point: (183)	17°33'59,95" East	52°25'41,89" North	110,0	4,0	45,0	450	29,1	1 057	Yes	Yes	Yes
AL	Noise sensitive point: (184)	17°34'02,63" East	52°25'41,01" North	110,0	4,0	45,0	450	28,6	1 113	Yes	Yes	Yes
AM	Noise sensitive point: (187)	17°33'53,42" East	52°25'38,50" North	108,8	4,0	45,0	450	29,2	1 035	Yes	Yes	Yes
AN	Noise sensitive point: (188)	17°33'53,56" East	52°25'37,33" North	108,7	4,0	45,0	450	29,0	1 063	Yes	Yes	Yes
AO	Noise sensitive point: (371)	17°31'26,12" East	52°26'44,56" North	110,0	4,0	45,0	450	24,7	1 620	Yes	Yes	Yes
AP	Noise sensitive point: (372)	17°31'12,41" East	52°26'39,69" North	109,6	4,0	45,0	450	23,6	1 785	Yes	Yes	Yes
AQ	Noise sensitive point: (373)	17°31'15,98" East	52°26'38,44" North	110,0	4,0	45,0	450	24,1	1 707	Yes	Yes	Yes
AR	Noise sensitive point: (374)	17°31'08,78" East	52°26'37,67" North	108,9	4,0	45,0	450	23,4	1 825	Yes	Yes	Yes
AS	Noise sensitive area: (375)	17°30'40,41" East	52°26'23,96" North	110,0	4,0	40,0	450	21,0	2 031	Yes	Yes	Yes
AT	Noise sensitive point: (376)	17°30'33,69" East	52°26'18,86" North	110,0	4,0	45,0	450	20,4	2 348	Yes	Yes	Yes
AU	Noise sensitive point: (377)	17°30'36,81" East	52°26'16,95" North	110,0	4,0	45,0	450	20,7	2 286	Yes	Yes	Yes
AV	Noise sensitive point: (378)	17°30'34,57" East	52°26'16,69" North	110,0	4,0	45,0	450	20,5	2 327	Yes	Yes	Yes
AW	Noise sensitive point: (379)	17°30'32,03" East	52°26'15,16" North	110,0	4,0	45,0	450	20,3	2 373	Yes	Yes	Yes
AX	Noise sensitive point: (380)	17°30'27,13" East	52°26'09,98" North	109,3	4,0	45,0	450	19,8	2 464	Yes	Yes	Yes
AY	Noise sensitive point: (381)	17°30'29,17" East	52°26'10,36" North	109,1	4,0	45,0	450	20,0	2 426	Yes	Yes	Yes
AZ	Noise sensitive point: (382)	17°32'32,35" East	52°25'41,45" North	106,0	4,0	45,0	450	33,1	654	Yes	Yes	Yes
BA	Noise sensitive point: (383)	17°32'38,48" East	52°25'43,85" North	106,7	4,0	45,0	450	34,6	536	Yes	Yes	Yes
BB	Noise sensitive point: (384)	17°32'41,31" East	52°25'42,59" North	106,7	4,0	45,0	450	34,4	551	Yes	Yes	Yes
BC	Noise sensitive point: (385)	17°32'49,32" East	52°25'41,23" North	105,7	4,0	45,0	450	34,4	549	Yes	Yes	Yes
BD	Noise sensitive point: (386)	17°32'51,58" East	52°25'39,10" North	104,0	4,0	45,0	450	33,6	606	Yes	Yes	Yes
BE	Noise sensitive point: (387)	17°32'48,64" East	52°25'37,41" North	104,0	4,0	45,0	450	32,9	667	Yes	Yes	Yes
BF	Noise sensitive point: (388)	17°32'50,91" East	52°25'37,00" North	104,0	4,0	45,0	450	32,8	672	Yes	Yes	Yes
BG	Noise sensitive point: (454)	17°30'55,44" East	52°25'45,19" North	108,0	450,0	45,0	450	24,8	2 069	Yes	Yes	Yes

Distances (m)

	WTG
NSA	1
A	2868
B	2959
C	2802
D	2795
E	2490
F	2422
G	2383
H	2305
I	2215
J	2099
K	2169
L	1997
M	1986
N	2057
O	1977
P	1885
Q	839
R	739
S	830
T	857
U	705
V	615
W	596
X	523
Y	1385
Z	1489
AA	1495
AB	1491

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DECIBEL - Main Result

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	WTG
NSA	1
AC	1464
AD	1464
AE	1447
AF	1450
AG	1451
AH	1481
AI	1373
AJ	1505
AK	1469
AL	1526
AM	1448
AN	1476
AO	2034
AP	2198
AQ	2121
AR	2239
AS	2653
AT	2762
AU	2699
AV	2741
AW	2786
AX	2878
AY	2839
AZ	1067
BA	949
BB	964
BC	962
BD	1020
BE	1081
BF	1086
BG	2482