

Project:

FW_Wloszakowice

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2013-07-22 11:59 / 1

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Calculated:

2013-07-22 11:51/2.9.207



DECIBEL - Main Result

Calculation: Analiza oddziaływania skumulowanego (grunt niezmrozony G=0,9)

Noise calculation model:

ISO 9613-2 Poland

Wind speed:

10,0 m/s

Ground attenuation:

General, Ground factor: 0,9

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)

WTGs

Poland CS 92				WTG type		Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data		Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones
East	North	Z	Row data/Description	Valid	Manufact.					Creator	Name			
		[m]												
1	320 783	457 827	96,3 EW_dz.52	Yes	NORDEX	N43-600/125	600	43,0	76,0	EMD	Level 0 - official - - 07-2002	10,0	104,0	0 dB h
2	320 894	457 195	100,0 EW_dz. 58	Yes	NORDEX	N43-600/125	600	43,0	76,0	EMD	Level 0 - official - - 07-2002	10,0	104,0	0 dB h
3	319 217	456 456	90,0 EW_dz.704/23	No	TELLUS	-95/20	95	19,0	22,6	USER	Level 0	10,0	98,0	0 dB h
4	319 180	456 594	91,1 EW_dz.704/23	No	TELLUS	-95/20	95	19,0	22,6	USER	Level 0	10,0	98,0	0 dB h
5	319 277	456 567	89,7 EW_dz.704/23	No	TELLUS	-95/20	95	19,0	22,6	USER	Level 0	10,0	98,0	0 dB h
6	319 255	456 670	91,5 EW_dz.704/23	No	NORDEX	N27/250-250/45	250	27,0	30,0	USER	Noise (0)	10,0	98,0	0 dB h
7	321 031	458 965	104,0 EW_1	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
8	320 998	458 639	103,4 EW_2	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
9	320 968	458 321	100,0 EW_3	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
10	320 922	457 946	97,9 EW_4	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
11	320 898	457 626	92,6 EW_5	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
12	320 681	455 457	100,0 EW_6	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
13	320 688	455 168	102,0 EW_7	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
14	322 561	458 359	103,0 EW_8	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
15	322 566	458 031	99,2 WE_9	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
16	322 583	457 765	98,5 EW_10	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
17	322 573	457 457	98,0 EW_11	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
18	322 369	455 127	110,0 EW_12	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
19	322 332	454 809	110,0 EW_13	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
20	323 450	456 611	108,5 EW_14	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
21	323 741	456 280	112,6 EW_15	Yes	ansee	Wloszakowice-2 000	2 000	120,0	80,0	USER	Level 0	10,0	105,5	0 dB h
22	323 651	459 243	105,6 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
23	324 075	458 836	107,4 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
24	324 532	459 225	106,0 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
25	324 937	458 746	108,8 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
26	325 204	458 156	108,5 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
27	325 667	458 698	106,9 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
28	325 789	459 228	112,0 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
29	325 302	459 789	106,0 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
30	325 776	460 267	103,6 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
31	325 128	460 387	100,7 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
32	325 755	460 871	102,1 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
33	325 151	460 783	102,7 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
34	325 241	461 503	104,6 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
35	325 792	461 297	104,2 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
36	325 249	461 921	96,5 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
37	325 723	461 776	101,1 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
38	326 218	462 072	103,5 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
39	326 472	462 472	107,6 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h
40	327 006	462 344	110,0 EW_Smigiel	No	GE WIND ENERGY	GE 2.5xl-2 500	2 500	100,0	100,0	EMD	Level 0 - Calculated - - 2010	10,0	105,0	0 dB h

h) Generic octave distribution used

i) Octave distribution from other wind speed used

Calculation Results

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2013-07-22 11:59 / 2

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DECIBEL - Main Result

Calculation: Analiza oddziaływania skumulowanego (grunt niezmrozony G=0,9)

Sound Level

Noise sensitive area		Poland CS 92			Demands		Sound Level		Demands fulfilled ?	
No.	Name	East	North	Z	Imission height	Noise	From WTGs	Distance to noise demand	Noise	
				[m]	[m]	[dB(A)]	[dB(A)]	[m]		
	A Bukowiec Gorny	320 956	456 627	95,6	4,0	45,0	40,1	313	Yes	
	B Bukowiec Gorny	321 137	456 767	97,9	4,0	45,0	41,0	232	Yes	
	C Bukowiec Gorny	321 382	456 739	99,1	4,0	45,0	39,8	408	Yes	
	D Bukowiec Gorny	321 581	456 751	99,5	4,0	45,0	39,3	549	Yes	
	E Bukowiec Gorny	321 795	456 889	100,5	4,0	45,0	39,6	637	Yes	
	F Bukowiec Gorny	322 039	456 975	100,6	4,0	45,0	40,4	395	Yes	
	G Bukowiec Gorny	322 088	456 749	100,0	4,0	45,0	39,3	540	Yes	
	H Bukowiec Gorny	322 189	456 627	101,1	4,0	45,0	39,0	598	Yes	
	I Bukowiec Gorny	322 364	456 391	102,4	4,0	45,0	38,5	771	Yes	
	J Bukowiec Gorny	322 541	456 115	106,6	4,0	45,0	38,5	713	Yes	
	K Bukowiec Gorny	322 811	455 979	109,2	4,0	45,0	39,0	592	Yes	
	L Bukowiec Gorny	322 925	455 915	112,7	4,0	45,0	39,1	552	Yes	
	M Bukowiec Gorny	323 225	455 861	114,8	4,0	45,0	39,8	366	Yes	
	N Bukowiec Gorny	322 929	455 632	114,9	4,0	45,0	39,1	468	Yes	
	O Bukowiec Gorny	323 006	455 371	113,6	4,0	45,0	39,2	388	Yes	
	P Bukowiec Gorny	322 999	455 249	115,1	4,0	45,0	39,5	338	Yes	
	Q Bukowiec Gorny	322 786	455 745	111,0	4,0	45,0	39,1	460	Yes	
	R Bukowiec Gorny	322 468	455 938	108,2	4,0	45,0	38,7	527	Yes	
	S Bukowiec Gorny	322 313	456 178	104,5	4,0	45,0	38,2	766	Yes	
	T Bukowiec Gorny	322 042	456 321	101,9	4,0	45,0	38,0	937	Yes	
	U Bukowiec Gorny	321 818	456 469	102,0	4,0	45,0	38,2	908	Yes	
	V Bukowiec Gorny	321 523	456 436	101,7	4,0	45,0	38,3	729	Yes	
	W Bukowiec Gorny	321 293	456 413	101,0	4,0	45,0	38,6	619	Yes	
	X Bukowiec Gorny	321 054	456 413	96,3	4,0	45,0	38,9	540	Yes	
	Y Bukowiec Gorny	320 903	456 321	95,9	4,0	45,0	38,8	602	Yes	
	Z Bukowiec Gorny	320 643	456 270	93,4	4,0	45,0	38,8	526	Yes	
	AA Bukowiec Gorny	320 468	456 218	93,6	4,0	45,0	38,7	502	Yes	
	AB Bukowiec Gorny	320 295	455 999	95,4	4,0	45,0	39,2	377	Yes	
	AC Bukowiec Gorny	321 268	456 816	97,9	4,0	45,0	40,8	275	Yes	
	AD Sadzia	323 326	454 414	112,0	4,0	45,0	34,9	773	Yes	
	AE Sadzia	323 386	454 251	110,0	4,0	45,0	33,9	897	Yes	
	AF Sadzia Cegielnia	322 063	453 988	112,5	4,0	45,0	36,0	584	Yes	
	AG Janowko	323 191	457 553	103,8	4,0	45,0	42,3	217	Yes	
	AH Janowko	323 170	457 480	104,0	4,0	45,0	42,4	210	Yes	
	AI Machcin	323 721	458 036	104,4	4,0	45,0	40,0	588	Yes	
	AJ Machcin	323 847	458 183	105,0	4,0	45,0	40,5	402	Yes	
	AK Machcin	323 585	458 207	104,9	4,0	45,0	40,6	506	Yes	
	AL Machcin	323 567	458 255	104,3	4,0	45,0	40,8	480	Yes	
	AM Bukowiec Gorny	322 022	458 531	105,4	4,0	45,0	42,5	219	Yes	
	AN Kierzki	321 953	459 371	102,0	4,0	45,0	38,3	689	Yes	
	AO Skarzyn	322 406	459 515	106,4	4,0	45,0	37,5	851	Yes	
	AP Dluzyna	320 506	459 433	97,0	4,0	45,0	38,9	398	Yes	
	AQ Dluzyna	320 174	459 406	91,2	4,0	45,0	36,9	647	Yes	
	AR Dluzyna	320 090	458 560	98,0	4,0	45,0	39,5	476	Yes	
	AS Dluzyna	319 938	458 680	97,3	4,0	45,0	38,0	647	Yes	
	AT Dluzyna	320 028	458 371	97,5	4,0	45,0	39,4	496	Yes	
	AU Dluzyna	320 139	458 237	98,0	4,0	45,0	40,7	351	Yes	
	AV Dluzyna	320 002	458 095	97,0	4,0	45,0	39,6	447	Yes	
	AW Dluzyna	319 999	457 849	97,8	4,0	45,0	39,8	417	Yes	
	AX Wloszakowice	319 731	455 901	88,5	4,0	40,0	37,0	404	Yes	
	AY Wloszakowice	319 710	455 847	89,3	4,0	45,0	36,9	618	Yes	
	AZ Wloszakowice	319 518	455 799	92,5	4,0	40,0	36,3	389	Yes	
	BA Wloszakowice	320 022	455 660	101,0	4,0	45,0	38,8	388	Yes	
	BB Wloszakowice	319 869	455 570	102,3	4,0	45,0	37,7	506	Yes	
	BC Wloszakowice	319 677	455 488	98,8	4,0	45,0	36,3	686	Yes	
	BD Wloszakowice	319 518	455 287	93,6	4,0	40,0	35,0	555	Yes	
	BE Wloszakowice	319 645	454 893	90,3	4,0	40,0	34,8	506	Yes	
	BF Wloszakowice	320 440	454 278	98,8	4,0	40,0	35,4	396	Yes	

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2013-07-22 11:59 / 3

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Calculation: Analiza oddziaływania skumulowanego (grunt niezmrozony G=0,9)

Distances (m)

WTG		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
NSA		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	1212	571	1747	1776	1680	1701	2339	2013	1694	1320	1001	1202	1483	2361	2136	1986	1818	2061	2280	2494	2807	3756	
B	1118	492	1945	1965	1871	1884	2201	1877	1563	1199	892	1387	1661	2136	1908	1757	1593	2051	2294	2318	2649	3529	
C	1242	668	2183	2207	2112	2128	2254	1939	1635	1292	1011	1461	1717	2004	1753	1580	1391	1890	2151	2072	2403	3379	
D	1340	818	2382	2406	2311	2327	2281	1976	1686	1365	1110	1576	1818	1883	1615	1426	1218	1805	2082	1874	2211	3240	
E	1380	952	2614	2632	2539	2549	2212	1923	1654	1371	1161	1814	2046	1658	1378	1178	963	1853	2148	1678	2039	2998	
F	1518	1166	2869	2884	2792	2800	2231	1963	1720	1480	1314	2037	2256	1479	1180	959	719	1877	2186	1457	1838	2783	
G	1693	1275	2886	2912	2817	2834	2455	2182	1930	1671	1478	1910	2112	1678	1368	1130	858	1646	1955	1369	1718	2943	
H	1849	1414	2977	3009	2913	2934	2609	2338	2088	1829	1632	1909	2093	1772	1454	1204	915	1511	1824	1261	1590	2997	
I	2136	1676	3148	3191	3092	3121	2899	2631	2382	2121	1917	1925	2075	1978	1653	1391	1086	1264	1582	1108	1382	3129	
J	2454	1970	3342	3395	3295	3332	3225	2958	2710	2444	2232	1973	2081	2244	1916	1651	1342	1003	1323	1036	1211	3319	
K	2744	2270	3626	3683	3583	3622	3476	3219	2980	2727	2524	2193	2273	2393	2067	1801	1497	960	1264	899	978	3371	
L	2871	2401	3747	3806	3706	3747	3590	3337	3102	2853	2653	2290	2358	2471	2146	1881	1582	964	1255	872	894	3406	
M	3135	2686	4052	4111	4011	4051	3801	3561	3339	3107	2921	2576	2630	2585	2268	2009	1724	1128	1380	783	665	3409	
N	3070	2566	3802	3871	3770	3817	3836	3574	3328	3063	2846	2255	2289	2752	2426	2161	1860	754	1017	1109	1039	3683	
O	3313	2791	3941	4017	3916	3969	4101	3836	3586	3313	3087	2327	2327	3021	2696	2431	2131	682	878	1317	1169	3926	
P	3400	2867	3970	4049	3949	4004	4205	3937	3683	3404	3173	2327	2312	3141	2816	2550	2249	642	799	1435	1270	4047	
Q	2889	2384	3639	3705	3604	3650	3667	3402	3153	2884	2665	2125	2176	2624	2297	2030	1725	746	1040	1091	1095	3604	
R	2531	2014	3292	3353	3252	3295	3351	3075	2816	2534	2305	1851	1939	2423	2095	1831	1523	817	1137	1191	1318	3511	
S	2250	1746	3109	3161	3061	3097	3068	2790	2530	2250	2025	1784	1913	2195	1870	1610	1305	1052	1369	1217	1432	3344	
T	1963	1443	2828	2875	2776	2808	2831	2542	2270	1974	1736	1612	1778	2103	1789	1542	1254	1238	1540	1438	1700	3336	
U	1708	1175	2601	2641	2543	2570	2617	2320	2038	1728	1478	1522	1723	2031	1732	1505	1244	1451	1738	1638	1932	3325	
V	1576	986	2306	2348	2250	2280	2577	2265	1965	1625	1344	1291	1518	2185	1906	1700	1465	1559	1817	1935	2224	3523	
W	1503	878	2076	2121	2022	2054	2566	2246	1936	1577	1276	1135	1384	2323	2059	1869	1652	1677	1911	2166	2452	3684	
X	1440	798	1838	1883	1784	1817	2552	2227	1910	1539	1223	1026	1298	2461	2215	2041	1843	1839	2051	2404	2690	3841	
Y	1511	874	1691	1745	1645	1684	2647	2320	2001	1625	1305	892	1173	2627	2385	2215	2020	1891	2080	2564	2838	4011	
Z	1564	959	1438	1499	1398	1444	2723	2396	2077	1699	1380	814	1103	2836	2608	2449	2266	2070	2233	2828	3098	4230	
AA	1640	1066	1273	1342	1241	1294	2804	2478	2162	1787	1472	790	1073	2994	2773	2620	2443	2192	2337	3008	3274	4391	
AB	1892	1338	1171	1264	1166	1237	3056	2732	2418	2046	1735	665	919	3272	3047	2890	2705	2250	2359	3214	3458	4668	
AC	1121	533	2082	2100	2007	2018	2162	1843	1535	1182	891	1480	1747	2013	1778	1622	1454	2016	2272	2192	2530	3401	
AD	4256	3695	4589	4684	4586	4654	5097	4824	4564	4273	4027	2843	2744	4019	3696	3433	3135	1193	1070	2201	1912	4840	
AE	4423	3857	4716	4815	4717	4787	5270	4996	4734	4441	4193	2962	2850	4190	3868	3605	3308	1342	1193	2361	2060	4999	
AF	4047	3414	3767	3886	3797	3883	5083	4772	4469	4119	3820	2017	1812	4399	4074	3813	3506	1179	864	2967	2841	5490	
AG	2424	2325	4123	4124	4036	4033	2581	2447	2352	2303	2294	3270	3457	1023	787	644	625	2562	2875	977	1387	1752	
AH	2412	2293	4083	4087	3998	3997	2604	2462	2357	2295	2276	3207	3392	1069	817	652	597	2486	2799	913	1329	1828	
AI	2946	2950	4773	4765	4681	4670	2846	2789	2768	2801	2853	3987	4174	1204	1155	1170	1286	3208	3513	1451	1756	1209	
AJ	3085	3114	4942	4930	4847	4834	2923	2885	2882	2935	3001	4178	4367	1298	1290	1331	1466	3395	3699	1621	1906	1078	
AK	2828	2875	4706	4691	4610	4594	2664	2623	2620	2676	2749	4000	4199	1035	1034	1095	1260	3311	3622	1602	1933	1038	
AL	2817	2876	4707	4691	4610	4594	2634	2598	2600	2663	2742	4020	4221	1011	1026	1099	1275	3350	3661	1648	1983	992	
AM	1425	1749	3489	3439	3375	3334	1082	1030	1075	1246	1443	3354	3618	566	739	949	1207	3422	3735	2393	2832	1778	
AN	1937	2420	3998	3924	3876	3817	1007	1203	1440	1759	2039	4116	4389	1181	1474	1725	2012	4264	4578	3140	3571	1703	
AO	2342	2769	4419	4352	4299	4245	1481	1658	1869	2160	2417	4409	4674	1166	1493	1759	2065	4388	4707	3086	3500	1274	
AP	1630	2271	3244	3133	3118	3033	703	934	1204	1544	1849	3980	4269	2319	2492	2664	2860	4692	4972	4078	4517	3151	
AQ	1692	2325	3101	2983	2977	2886	964	1126	1344	1640	1922	3981	4269	2607	2759	2915	3091	4809	5078	4306	4743	3481	
AR	1009	1584	2278	2166	2152	2066	1025	912	910	1034	1235	3159	3444	2480	2532	2617	2717	4121	4370	3885	4305	3626	
AS	1201	1766	2338	2219	2214	2123	1130	1061	1091	1228	1426	3308	3591	2643	2707	2799	2905	4305	4552	4076	4497	3756	
AT	931	1460	2080	1969	1954	1868	1166	1006	941	990	1145	2986	3270	2533	2561	2626	2704	4001	4242	3848	4261	3727	
AU	763	1287	2005	1902	1879	1799	1151	948	833	835	974	2832	3118	2425	2436	2489	2556	3827	4070	3689	4099	3653	
AV	826	1267	1817	1711	1691	1609	1348	1135	992	932	1011	2724	3006	2573	2565	2602	2649	3796	4028	3754	4156	3825	
AW	784	1108	1597	1499	1471	1394	1520	1274	1078	928	926	2487	2768	2612	2574	2585	2604	3609	3832	3666	4058	3909	
AX	2195	1740	757	885	806	904	3328	3017	2718	2367	2083	1049	1205	3749	3546	3407	3240	2749	2821	3786	4028	5151	
AY	2252	1794	784																				

Project:

FW_Wloszakowice

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Calculated:

2013-07-22 11:51/2.9.207



DECIBEL - Main Result

Calculation: Analiza oddziaływania skumulowanego (grunt niezamrozony G=0,9)

WTG		23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
NSA	A	3822	4420	4510	4515	5146	5489	5375	6040	5617	6407	5905	6492	6723	6816	7017	7572	8037	8324
	B	3594	4192	4285	4298	4925	5263	5146	5811	5388	6178	5678	6267	6496	6594	6792	7346	7811	8097
	C	3413	4013	4083	4076	4712	5062	4967	5635	5229	6017	5528	6131	6343	6466	6650	7200	7667	7941
	D	3251	3851	3904	3886	4526	4883	4804	5474	5080	5865	5386	5998	6197	6339	6512	7058	7527	7792
	E	2998	3599	3650	3637	4274	4629	4551	5221	4832	5616	5141	5759	5951	6104	6270	6814	7284	7544
	F	2759	3358	3396	3378	4017	4375	4309	4980	4603	5384	4918	5546	5724	5897	6052	6592	7062	7315
	G	2882	3479	3479	3419	4075	4455	4424	5097	4741	5517	5065	5705	5866	6062	6204	6738	7210	7450
	H	2905	3499	3470	3381	4048	4442	4437	5111	4773	5544	5104	5753	5899	6115	6245	6774	7247	7476
	I	2984	3568	3488	3344	4029	4448	4492	5164	4859	5619	5202	5866	5985	6238	6347	6865	7339	7549
	J	3124	3693	3559	3355	4055	4499	4596	5264	4995	5740	5348	6027	6118	6407	6494	7001	7475	7664
	K	3124	3674	3490	3235	3944	4408	4552	5214	4980	5710	5344	6035	6097	6423	6488	6981	7454	7624
	L	3139	3680	3473	3196	3907	4380	4545	5203	4985	5707	5353	6049	6098	6440	6495	6983	7455	7615
	M	3094	3609	3355	3031	3743	4232	4444	5092	4910	5613	5286	5992	6012	6389	6421	6895	7366	7505
	N	3403	3935	3705	3398	4111	4595	4787	5440	5239	5953	5610	6310	6348	6704	6750	7232	7704	7854
	O	3626	4145	3889	3548	4261	4756	4979	5626	5447	6149	5822	6527	6549	6924	6958	7431	7902	8039
	P	3745	4262	3998	3649	4361	4860	5091	5735	5562	6262	5938	6644	6662	7042	7073	7545	8015	8149
	Q	3349	3894	3692	3415	4126	4599	4763	5421	5200	5924	5566	6260	6314	6649	6708	7198	7671	7833
	R	3314	3882	3739	3522	4225	4675	4782	5449	5184	5928	5539	6218	6307	6598	6684	7190	7664	7851
	S	3189	3770	3672	3503	4195	4625	4688	5359	5064	5820	5410	6077	6190	6450	6555	7071	7544	7749
	T	3234	3826	3777	3656	4335	4743	4760	5433	5105	5873	5439	6090	6231	6454	6581	7108	7581	7805
	U	3271	3868	3862	3783	4448	4836	4813	5486	5129	5906	5452	6088	6253	6442	6589	7125	7596	7838
	V	3503	4103	4122	4063	4721	5099	5052	5724	5349	6130	5662	6285	6470	6631	6794	7336	7806	8061
	W	3689	4290	4327	4282	4935	5305	5241	5912	5523	6308	5830	6442	6641	6782	6956	7502	7971	8235
	X	3873	4473	4530	4501	5148	5509	5426	6095	5691	6479	5990	6591	6805	6924	7111	7661	8128	8403
	Y	4048	4648	4707	4676	5324	5686	5602	6271	5864	6652	6161	6758	6976	7089	7280	7831	8298	8575
	Z	4286	4885	4957	4936	5580	5936	5839	6506	6089	6878	6379	6967	7197	7291	7492	8047	8512	8797
	AA	4457	5056	5135	5117	5760	6114	6010	6676	6253	7043	6540	7122	7358	7442	7649	8206	8670	8960
	AB	4726	5326	5394	5362	6012	6373	6280	6947	6528	7318	6817	7400	7635	7721	7927	8483	8948	9236
	AC	3458	4057	4146	4158	4785	5124	5011	5678	5259	6048	5551	6145	6368	6474	6667	7220	7686	7968
	AD	4485	4960	4622	4187	4882	5408	5727	6345	6239	6899	6626	7343	7312	7750	7743	8186	8651	8743
	AE	4637	5105	4755	4308	4998	5527	5860	6474	6379	7032	6767	7486	7446	7893	7880	8318	8782	8866
	AF	5249	5790	5559	5219	5931	6430	6644	7295	7096	7811	7464	8160	8206	8549	8606	9090	9562	9709
	AG	1558	2143	2115	2101	2728	3091	3075	3748	3433	4193	3778	4451	4559	4829	4924	5439	5913	6125
	AH	1631	2214	2174	2144	2779	3149	3143	3816	3505	4264	3852	4525	4631	4904	4998	5512	5986	6195
	AI	875	1439	1408	1488	2056	2387	2361	3033	2740	3489	3097	3786	3863	4175	4242	4746	5220	5418
	AJ	692	1247	1227	1357	1892	2205	2167	2840	2549	3297	2909	3601	3672	3993	4054	4555	5029	5225
	AK	797	1390	1456	1620	2139	2429	2335	3008	2671	3436	3015	3689	3797	4070	4161	4677	5151	5369
	AL	772	1368	1455	1640	2146	2426	2316	2988	2643	3411	2983	3654	3769	4034	4129	4648	5121	5343
	AM	2076	2604	2923	3204	3649	3831	3513	4136	3618	4406	3855	4381	4676	4681	4922	5491	5945	6276
	AN	2188	2583	3049	3471	3775	3839	3375	3927	3334	4087	3496	3919	4295	4167	4472	5049	5481	5863
	AO	1802	2146	2645	3111	3362	3395	2909	3453	2858	3613	3024	3463	3826	3725	4015	4590	5028	5401
	AP	3619	4032	4484	4869	5213	5287	4809	5336	4720	5443	4837	5168	5605	5356	5719	6292	6696	7122
	AQ	3943	4362	4809	5183	5539	5618	5142	5668	5050	5770	5164	5484	5928	5664	6034	6606	7005	7437
	AR	3995	4492	4851	5131	5579	5739	5356	5937	5360	6119	5528	5933	6326	6158	6487	7064	7486	7884
	AS	4140	4626	5000	5292	5729	5877	5478	6050	5464	6216	5621	6008	6413	6222	6562	7138	7555	7962
	AT	4074	4584	4923	5181	5649	5825	5462	6053	5484	6249	5663	6082	6464	6314	6636	7212	7639	8030
	AU	3981	4503	4825	5066	5547	5736	5391	5992	5433	6203	5622	6058	6428	6300	6611	7188	7619	8002
	AV	4140	4669	4978	5203	5697	5897	5564	6169	5615	6388	5809	6250	6617	6494	6803	7380	7812	8192
	AW	4194	4737	5019	5214	5731	5952	5647	6263	5723	6501	5929	6390	6742	6644	6942	7518	7955	8325
	AX	5243	5840	5933	5920	6562	6912	6794	7457	7018	7810	7295	7858	8115	8167	8392	8954	9414	9718
	AY	5290	5888	5977	5960	6604	6956	6842	7506	7069	7861	7347	7911	8167	8221	8445	9006	9467	9770
	AZ	5476	6073	6169	6155	6798	7148	7027	7690	7247	8039	7522	8080	8342	8386	8616	9179	9638	9946
	BA	5149	5749	5804	5752	6411	6782	7073	7371	6958	7748	7250	7835	8067	8156	8361	8917	9382	9667
	BB	5325	5925	5981	5929	6588	6959	6879	7547	7132	7922	7422	8004	8239	8324	8532	9088	9552	9840
	BC	5528	6127	6187	6137	6796	7166	7081	7749	7329	8119	7616	8194	8435	8511	8723	9281	9745	10036
	BD	5776	6376	6429	6369	7032	7407	7330	7998	7582	8372	7870	8450	8688	8767	8979	9536	10000	10290
	BE	5931	6531	6546	6446	7124	7520	7482	8153	7762	8548	8063	8661	8877	8989	9183	9734	10201	10474
	BF	5830	6421	6340	6143	6846	7289	7350	8022	7701	8469	8032	8675	8827	9031	9173	9703	10176	10401