

Project:  
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Printed/Page  
2009-03-02 15:26 / 1

Licensed user:  
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awiding  
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2009-03-02 15:19/2.6.1.252

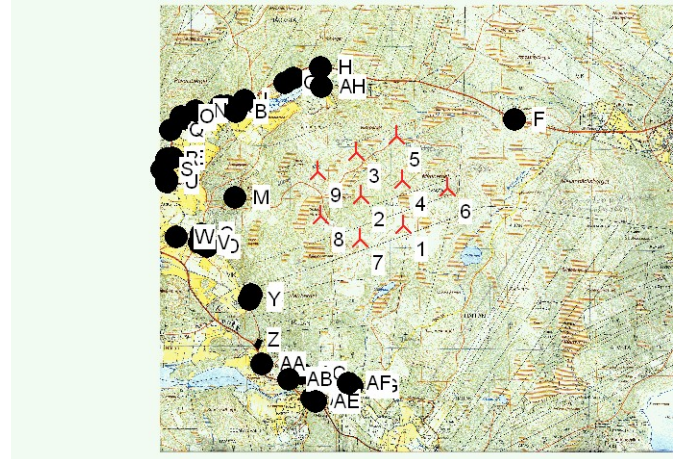
## DECIBEL - Main Result

Calculation: N90LS Layout 2

### SVENSKA BESTÄMMELSER FÖR EXTERNT BULLER FRÅN LANDBASERADE VINDKRAFTVERK

Beräkningen är baserad på den av Statens Naturvårdsverk rekommenderad metod "Ljud från landbaserade vindkraftverk", 2001 (ISBN 91-620-6249-2)

Roughness class: 1,5  
Roughness length: 0,055  
K: 1.0 dB/(m/s)



Scale 1:75 000

New WTG

Noise sensitive area

## WTGs

RN	East	North	Z	Row data/Description	WTG type			Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data		Wind speed [m/s]	Status	Hub height [m]	LwA,ref [dB(A)]	Pure tones	Octave data
					Valid	Manufact.	Type-generator				Creator	Name						
1	1 579 983	6 875 092	75,0	NORDEX N90/2500 LS 2500 90...	Yes	NORDEX	N90/2500 LS-2 500	2 500	90,0	100,0	EMD	Level 0 - official - 06-2005	8,0	User value	100,0	103,3	No	Yes *)
2	1 579 565	6 875 392	85,2	NORDEX N90/2500 LS 2500 90...	Yes	NORDEX	N90/2500 LS-2 500	2 500	90,0	100,0	EMD	Level 0 - official - 06-2005	8,0	User value	100,0	103,3	No	Yes *)
3	1 579 514	6 875 825	76,2	NORDEX N90/2500 LS 2500 90...	Yes	NORDEX	N90/2500 LS-2 500	2 500	90,0	100,0	EMD	Level 0 - official - 06-2005	8,0	User value	100,0	103,3	No	Yes *)
4	1 579 975	6 875 545	73,2	NORDEX N90/2500 LS 2500 90...	Yes	NORDEX	N90/2500 LS-2 500	2 500	90,0	100,0	EMD	Level 0 - official - 06-2005	8,0	User value	100,0	103,3	No	Yes *)
5	1 579 926	6 875 983	51,9	NORDEX N90/2500 LS 2500 90...	Yes	NORDEX	N90/2500 LS-2 500	2 500	90,0	100,0	EMD	Level 0 - official - 06-2005	8,0	User value	100,0	103,3	No	Yes *)
6	1 580 427	6 875 468	83,9	NORDEX N90/2500 LS 2500 90...	Yes	NORDEX	N90/2500 LS-2 500	2 500	90,0	100,0	EMD	Level 0 - official - 06-2005	8,0	User value	100,0	103,3	No	Yes *)
7	1 579 558	6 874 954	87,7	NORDEX N90/2500 LS 2500 90...	Yes	NORDEX	N90/2500 LS-2 500	2 500	90,0	100,0	EMD	Level 0 - official - 06-2005	8,0	User value	100,0	103,3	No	Yes *)
8	1 579 160	6 875 188	90,9	NORDEX N90/2500 LS 2500 90...	Yes	NORDEX	N90/2500 LS-2 500	2 500	90,0	100,0	EMD	Level 0 - official - 06-2005	8,0	User value	100,0	103,3	No	Yes *)
9	1 579 134	6 875 628	80,0	NORDEX N90/2500 LS 2500 90...	Yes	NORDEX	N90/2500 LS-2 500	2 500	90,0	100,0	EMD	Level 0 - official - 06-2005	8,0	User value	100,0	103,3	No	Yes *)

\*)Notice: One or more noise data for this WTG is generic or input by user

## Calculation Results

### Sound Level

Noise sensitive area	No.	Name	RN			Imission height [m]	Demands Noise [dB(A)]	Sound Level From WTGs [dB(A)]	Demands fulfilled ? Noise
			East	North	Z				
A Noise sensitive point: Swedish - Night; Dwellings (11)			1 578 902	6 876 561	50,2	1,5	40,0	37,9	Yes
B Noise sensitive point: Swedish - Night; Dwellings (12)			1 578 321	6 876 224	44,9	1,5	40,0	36,9	Yes
C Noise sensitive point: Swedish - Night; Dwellings (13)			1 577 973	6 875 001	42,0	1,5	40,0	35,7	Yes
D Noise sensitive point: Swedish - Night; Dwellings (14)			1 578 030	6 874 876	35,6	1,5	40,0	35,8	Yes
E Noise sensitive point: Swedish - Night; Dwellings (15)			1 577 685	6 875 764	41,2	1,5	40,0	34,1	Yes
F Noise sensitive point: Swedish - Night; Dwellings (16)			1 581 099	6 876 149	30,0	1,5	40,0	36,9	Yes
G Noise sensitive point: Swedish - Night; Dwellings (19)			1 578 812	6 876 507	50,5	1,5	40,0	37,9	Yes
H Noise sensitive point: Swedish - Night; Dwellings (20)			1 579 163	6 876 669	50,8	1,5	40,0	38,3	Yes
I Noise sensitive area: Swedish - Night; Dwellings (21)			1 578 412	6 876 335	56,9	1,5	40,0	37,0	Yes
J Noise sensitive point: Swedish - Night; Dwellings (22)			1 578 240	6 876 284	54,3	1,5	40,0	36,2	Yes
K Noise sensitive point: Swedish - Night; Dwellings (23)			1 578 171	6 876 284	53,1	1,5	40,0	35,8	Yes
L Noise sensitive area: Swedish - Night; Dwellings (24)			1 578 059	6 876 238	48,8	1,5	40,0	35,3	Yes
M Noise sensitive point: Swedish - Night; Dwellings (25)			1 578 307	6 875 372	68,3	1,5	40,0	38,4	Yes
N Noise sensitive point: Swedish - Night; Dwellings (26)			1 577 918	6 876 235	48,4	1,5	40,0	34,6	Yes
O Noise sensitive point: Swedish - Night; Dwellings (27)			1 577 779	6 876 180	49,5	1,5	40,0	34,0	Yes
P Noise sensitive point: Swedish - Night; Dwellings (28)			1 577 810	6 876 154	46,2	1,5	40,0	34,2	Yes
Q Noise sensitive point: Swedish - Night; Dwellings (29)			1 577 667	6 876 037	49,1	1,5	40,0	33,7	Yes
R Noise sensitive point: Swedish - Night; Dwellings (30)			1 577 628	6 875 752	44,0	1,5	40,0	33,8	Yes
S Noise sensitive point: Swedish - Night; Dwellings (31)			1 577 581	6 875 647	41,7	1,5	40,0	33,6	Yes
T Noise sensitive point: Swedish - Night; Dwellings (32)			1 577 629	6 875 550	40,0	1,5	40,0	33,9	Yes
U Noise sensitive point: Swedish - Night; Dwellings (33)			1 577 627	6 875 521	40,0	1,5	40,0	33,9	Yes
V Noise sensitive point: Swedish - Night; Dwellings (34)			1 577 955	6 874 913	36,0	1,5	40,0	35,4	Yes
W Noise sensitive point: Swedish - Night; Dwellings (35)			1 577 721	6 874 972	30,0	1,5	40,0	34,1	Yes
X Noise sensitive point: Swedish - Night; Dwellings (36)			1 578 466	6 874 396	45,2	1,5	40,0	36,7	Yes
Y Noise sensitive point: Swedish - Night; Dwellings (37)			1 578 448	6 874 350	41,8	1,5	40,0	36,4	Yes

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**DECIBEL - Main Result**

Calculation: N90LS Layout 2

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Noise sensitive area		RN			Immission height	Demands	Sound Level	Demands fulfilled ?
No.	Name	East	North	Z		Noise	From WTGs	Noise
					[m]	[dB(A)]	[dB(A)]	
	Z Noise sensitive area: Swedish - Night; Dwellings (38)	1 578 576	6 873 948	32,1	1,5	40,0	34,9	Yes
	AA Noise sensitive point: Swedish - Night; Dwellings (39)	1 578 575	6 873 710	30,0	1,5	40,0	33,8	Yes
	AB Noise sensitive point: Swedish - Night; Dwellings (40)	1 578 839	6 873 553	23,5	1,5	40,0	33,7	Yes
	AC Noise sensitive point: Swedish - Night; Dwellings (41)	1 578 961	6 873 616	22,4	1,5	40,0	34,2	Yes
	AD Noise sensitive point: Swedish - Night; Dwellings (42)	1 579 067	6 873 364	20,0	1,5	40,0	33,1	Yes
	AE Noise sensitive point: Swedish - Night; Dwellings (43)	1 579 102	6 873 336	20,0	1,5	40,0	33,0	Yes
	AF Noise sensitive point: Swedish - Night; Dwellings (44)	1 579 436	6 873 512	20,0	1,5	40,0	34,3	Yes
	AG Noise sensitive point: Swedish - Night; Dwellings (45)	1 579 469	6 873 486	20,0	1,5	40,0	34,1	Yes
	AH Noise sensitive point: Swedish - Night; Dwellings (49)	1 579 180	6 876 476	43,5	1,5	40,0	39,9	Yes

**Distances (m)****WTG**

NSA	1	2	3	4	5	6	7	8	9
A	1824	1343	957	1477	1175	1876	1735	1397	961
B	2011	1497	1258	1788	1623	2238	1773	1334	1008
C	2012	1640	1747	2075	2185	2498	1585	1202	1319
D	1964	1619	1760	2056	2194	2468	1529	1172	1335
E	2393	1916	1829	2300	2251	2757	2040	1583	1455
F	1538	1711	1619	1276	1185	957	1951	2164	2033
G	1837	1345	979	1509	1231	1920	1723	1364	936
H	1777	1338	914	1386	1026	1743	1760	1481	1041
I	2004	1490	1214	1752	1554	2194	1795	1370	1011
J	2112	1598	1354	1886	1712	2334	1873	1431	1109
K	2169	1655	1419	1949	1780	2399	1921	1476	1165
L	2239	1728	1512	2037	1882	2490	1974	1522	1236
M	1699	1258	1288	1677	1730	2122	1318	872	865
N	2360	1850	1647	2169	2023	2623	2080	1624	1359
O	2457	1952	1770	2285	2155	2741	2160	1700	1463
P	2419	1914	1735	2249	2123	2705	2120	1660	1425
Q	2501	2005	1859	2360	2259	2818	2179	1718	1523
R	2446	1971	1887	2356	2310	2813	2088	1633	1511
S	2465	2000	1940	2396	2368	2851	2094	1644	1553
T	2397	1942	1904	2346	2337	2799	2018	1573	1507
U	2395	1943	1911	2348	2345	2801	2012	1569	1511
V	2036	1680	1806	2117	2242	2534	1603	1236	1379
W	2265	1892	1985	2326	2425	2751	1837	1455	1558
X	1668	1484	1772	1897	2156	2235	1226	1053	1401
Y	1704	1528	1819	1939	2202	2273	1263	1100	1450
Z	1813	1751	2098	2124	2442	2395	1406	1371	1771
AA	1972	1952	2313	2308	2643	2553	1585	1589	1997
AB	1917	1978	2370	2294	2662	2488	1575	1667	2096
AC	1794	1876	2276	2179	2555	2362	1465	1584	2019
AD	1955	2089	2501	2363	2756	2505	1664	1826	2265
AE	1964	2108	2522	2375	2772	2510	1681	1853	2292
AF	1672	1885	2314	2104	2519	2193	1447	1699	2138
AG	1685	1908	2339	2120	2538	2201	1470	1729	2168
AH	1600	1150	732	1224	894	1603	1568	1288	849