

Project:
Forshälla 100226

Description:
Uppdaterade värden för avstånd mellan vindkraftverk och bostäder. Ersätter sid. 90-91 i MKB Forshälla, december 2009.

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Calculated:
2010-02-26 15:43/2.6.1.252

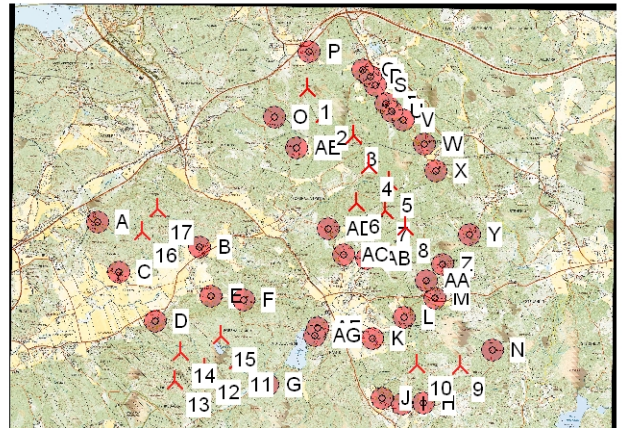
DECIBEL - Huvudresultat

Calculation: Forshälla Samtliga 2010-02-26

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)

Råhetsklass: 1,5
Råhetslängd: 0,055
K: 1.0 dB/(m/s)



Nytt VKV

Ljudkänsligt område

WTGs

| RN | Ost Nord Z | | | Raddata/Beskrivning | VKV typ | | | Ljuddata | | | | | | |
|----|------------|-----------|-------|-----------------------------|---------|-------------------------|----------------|-------------------|--------------------|-------------|------------|-------|---------------------|-----------------|
| | Ost | Nord | Z | | Giltig | Tillverkare | Type-generator | Power, rated [kW] | Rotor diameter [m] | Navhöjd [m] | Upphovsman | Namn | Vindhastighet [m/s] | LwA,ref [dB(A)] |
| 1 | 1 275 692 | 6 473 175 | 130,0 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 2 | 1 275 969 | 6 472 739 | 126,8 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 3 | 1 276 471 | 6 472 394 | 130,0 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 4 | 1 276 715 | 6 471 886 | 130,0 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 5 | 1 277 057 | 6 471 623 | 130,0 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 6 | 1 276 512 | 6 471 264 | 130,0 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 7 | 1 276 986 | 6 471 148 | 140,0 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 8 | 1 277 332 | 6 470 862 | 137,8 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 9 | 1 278 239 | 6 468 569 | 115,7 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 10 | 1 277 513 | 6 468 582 | 130,9 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 11 | 1 274 536 | 6 468 646 | 120,0 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 12 | 1 273 984 | 6 468 515 | 147,9 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 13 | 1 273 488 | 6 468 318 | 140,0 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 14 | 1 273 589 | 6 468 798 | 131,3 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 15 | 1 274 259 | 6 469 066 | 120,0 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 16 | 1 272 941 | 6 470 789 | 105,1 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |
| 17 | 1 273 207 | 6 471 169 | 130,0 | Siemens SWT-2.3e-101 230.Ja | Siemens | SWT-2.3e-101-2 3002 300 | 101,0 | 120,0 | USER | 104 dB(A) | 8,0 | 104,0 | No | Ja |

Beräkningsresultat

Ljudnivå

| Ljudkänsligt område | RN | Ost Nord Z | | | Imission height [m] | Krav Ljud [dB(A)] | Ljudnivå From WTGs [dB(A)] | Uppfylls kraven ? Ljud |
|--|-----------|------------|-------|-----|---------------------|-------------------|----------------------------|------------------------|
| | | Ost | Nord | Z | | | | |
| A Noise sensitive point: Swedish - User defined (1) | 1 272 220 | 6 470 950 | 55,2 | 1,5 | 40,0 | 36,9 | Ja | |
| B Noise sensitive point: Swedish - User defined (1) | 1 273 914 | 6 470 540 | 41,4 | 1,5 | 40,0 | 36,9 | Ja | |
| C Noise sensitive point: Swedish - User defined (1) | 1 272 570 | 6 470 112 | 40,0 | 1,5 | 40,0 | 36,8 | Ja | |
| D Noise sensitive point: Swedish - User defined (4) | 1 273 168 | 6 469 308 | 47,1 | 1,5 | 40,0 | 39,4 | Ja | |
| E Noise sensitive point: Swedish - User defined (4) | 1 274 101 | 6 469 714 | 40,0 | 1,5 | 40,0 | 39,3 | Ja | |
| F Noise sensitive point: Swedish - User defined (4) | 1 274 645 | 6 469 654 | 64,7 | 1,5 | 40,0 | 38,8 | Ja | |
| G Noise sensitive point: Swedish - User defined (4) | 1 275 040 | 6 468 254 | 82,7 | 1,5 | 40,0 | 39,1 | Ja | |
| H Noise sensitive point: Swedish - User defined (8) | 1 277 636 | 6 467 941 | 110,0 | 1,5 | 40,0 | 38,2 | Ja | |
| I Noise sensitive point: Swedish - User defined (8) | 1 277 274 | 6 467 935 | 90,9 | 1,5 | 40,0 | 37,2 | Ja | |
| J Noise sensitive point: Swedish - User defined (8) | 1 276 945 | 6 468 021 | 90,0 | 1,5 | 40,0 | 35,8 | Ja | |
| K Noise sensitive point: Swedish - User defined (8) | 1 276 784 | 6 469 010 | 78,2 | 1,5 | 40,0 | 36,1 | Ja | |
| L Noise sensitive point: Swedish - User defined (8) | 1 277 312 | 6 469 366 | 91,7 | 1,5 | 40,0 | 37,0 | Ja | |
| M Noise sensitive point: Swedish - User defined (8) | 1 277 819 | 6 469 680 | 100,0 | 1,5 | 40,0 | 36,1 | Ja | |
| N Noise sensitive point: Swedish - User defined (8) | 1 278 776 | 6 468 818 | 111,3 | 1,5 | 40,0 | 38,3 | Ja | |
| O Noise sensitive point: Swedish - User defined (15) | 1 275 150 | 6 472 688 | 110,0 | 1,5 | 40,0 | 38,7 | Ja | |
| P Noise sensitive point: Swedish - User defined (15) | 1 275 733 | 6 473 780 | 96,7 | 1,5 | 40,0 | 38,7 | Ja | |
| Q Noise sensitive point: Swedish - User defined (15) | 1 276 630 | 6 473 469 | 117,4 | 1,5 | 40,0 | 37,1 | Ja | |
| R Noise sensitive point: Swedish - User defined (15) | 1 276 744 | 6 473 355 | 117,5 | 1,5 | 40,0 | 37,2 | Ja | |

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2010-02-26 15:43/2.6.1.252**DECIBEL - Huvudresultat****Calculation:** Forshälla Samtliga 2010-02-26

...continued from previous page

| Ljudkänsligt område | Nej | Namn | RN | | | Imission height | Krav Ljud | Ljudnivå From WTGs | Uppfylls kraven ? Ljud |
|---------------------|-----|--|-----------|-----------|-------|-----------------|-----------|--------------------|------------------------|
| | | | Ost | Nord | Z | | | | |
| S | | Noise sensitive point: Swedish - User defined (15) | 1 276 839 | 6 473 225 | 112,5 | [m] | [dB(A)] | [dB(A)] | Ja |
| T | | Noise sensitive point: Swedish - User defined (15) | 1 277 014 | 6 472 911 | 118,1 | 1,5 | 40,0 | 37,6 | Ja |
| U | | Noise sensitive point: Swedish - User defined (15) | 1 277 101 | 6 472 783 | 120,0 | 1,5 | 40,0 | 38,9 | Ja |
| V | | Noise sensitive point: Swedish - User defined (15) | 1 277 297 | 6 472 641 | 120,0 | 1,5 | 40,0 | 39,1 | Ja |
| W | | Noise sensitive point: Swedish - User defined (15) | 1 277 642 | 6 472 240 | 124,0 | 1,5 | 40,0 | 38,5 | Ja |
| X | | Noise sensitive point: Swedish - User defined (15) | 1 277 831 | 6 471 794 | 120,0 | 1,5 | 40,0 | 38,4 | Ja |
| Y | | Noise sensitive point: Swedish - User defined (15) | 1 278 402 | 6 470 742 | 110,0 | 1,5 | 40,0 | 38,9 | Ja |
| Z | | Noise sensitive point: Swedish - User defined (15) | 1 277 954 | 6 470 248 | 111,1 | 1,5 | 40,0 | 35,3 | Ja |
| AA | | Noise sensitive point: Swedish - User defined (15) | 1 277 685 | 6 469 966 | 110,0 | 1,5 | 40,0 | 36,7 | Ja |
| AB | | Noise sensitive point: Swedish - User defined (15) | 1 276 688 | 6 470 349 | 92,5 | 1,5 | 40,0 | 36,5 | Ja |
| AC | | Noise sensitive point: Swedish - User defined (15) | 1 276 301 | 6 470 411 | 95,0 | 1,5 | 40,0 | 39,1 | Ja |
| AD | | Noise sensitive point: Swedish - User defined (15) | 1 276 045 | 6 470 829 | 100,0 | 1,5 | 40,0 | 38,2 | Ja |
| AE | | Noise sensitive point: Swedish - User defined (15) | 1 275 526 | 6 472 177 | 110,0 | 1,5 | 40,0 | 39,8 | Ja |
| AF | | Noise sensitive point: Swedish - User defined (33) | 1 275 878 | 6 469 193 | 90,0 | 1,5 | 40,0 | 39,5 | Ja |
| AG | | Noise sensitive point: Swedish - User defined (34) | 1 275 827 | 6 469 067 | 90,0 | 1,5 | 40,0 | 34,8 | Ja |

Avstånd (m)

| NSA | VKV | | | | | | | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 5 | 6 | 8 | 4 | 3 | 2 | 1 | 7 | 10 | 17 | 15 | 16 | 14 | 11 | 12 | 13 | 9 |
| A | 4884 | 4304 | 5113 | 4592 | 4490 | 4154 | 4124 | 4770 | 5799 | 1011 | 2776 | 739 | 2551 | 3267 | 3007 | 2922 | 6473 |
| B | 3325 | 2697 | 3433 | 3108 | 3159 | 3010 | 3179 | 3132 | 4097 | 946 | 1514 | 1004 | 1772 | 1993 | 2026 | 2262 | 4753 |
| C | 4734 | 4107 | 4820 | 4508 | 4519 | 4296 | 4373 | 4536 | 5174 | 1234 | 1986 | 772 | 1663 | 2452 | 2133 | 2015 | 5875 |
| D | 4526 | 3874 | 4445 | 4385 | 4521 | 4430 | 4618 | 4239 | 4405 | 1862 | 1118 | 1499 | 661 | 1520 | 1138 | 1040 | 5125 |
| E | 3519 | 2867 | 3429 | 3399 | 3578 | 3556 | 3810 | 3222 | 3595 | 1708 | 667 | 1581 | 1049 | 1153 | 1204 | 1524 | 4294 |
| F | 3113 | 2465 | 2946 | 3044 | 3293 | 3357 | 3673 | 2777 | 3062 | 2089 | 704 | 2048 | 1360 | 1014 | 1317 | 1768 | 3754 |
| G | 3927 | 3351 | 3472 | 4000 | 4380 | 4580 | 4964 | 3487 | 2495 | 3443 | 1127 | 3291 | 1550 | 639 | 1088 | 1553 | 3214 |
| H | 3727 | 3508 | 2936 | 4051 | 4602 | 5079 | 5583 | 3272 | 652 | 5480 | 3559 | 5491 | 4137 | 3179 | 3697 | 4165 | 870 |
| I | 3694 | 3415 | 2928 | 3990 | 4531 | 4978 | 5474 | 3226 | 690 | 5196 | 3220 | 5189 | 3785 | 2829 | 3341 | 3805 | 1155 |
| J | 3604 | 3272 | 2867 | 3872 | 4398 | 4818 | 5304 | 3127 | 798 | 4887 | 2882 | 4867 | 3444 | 2488 | 3002 | 3469 | 1405 |
| K | 2628 | 2271 | 1932 | 2877 | 3399 | 3817 | 4306 | 2148 | 846 | 4178 | 2525 | 4235 | 3202 | 2277 | 2843 | 3367 | 1521 |
| L | 2272 | 2060 | 1496 | 2590 | 3143 | 3631 | 4139 | 1812 | 809 | 4484 | 3068 | 4597 | 3766 | 2868 | 3435 | 3965 | 1222 |
| M | 2087 | 2054 | 1278 | 2467 | 3030 | 3575 | 4091 | 1688 | 1140 | 4847 | 3613 | 5003 | 4321 | 3442 | 4008 | 4540 | 1188 |
| N | 3290 | 3333 | 2502 | 3696 | 4254 | 4822 | 5338 | 2938 | 1285 | 6045 | 4524 | 6159 | 5187 | 4244 | 4802 | 5312 | 592 |
| O | 2184 | 1971 | 2845 | 1759 | 1353 | 821 | 729 | 2396 | 4737 | 2466 | 3730 | 2913 | 4192 | 4088 | 4333 | 4675 | 5149 |
| P | 2531 | 2634 | 3328 | 2134 | 1571 | 1068 | 607 | 2916 | 5495 | 3633 | 4939 | 4092 | 5424 | 5272 | 5548 | 5906 | 5783 |
| Q | 1894 | 2208 | 2700 | 1585 | 1086 | 984 | 982 | 2348 | 4966 | 4123 | 5000 | 4559 | 5573 | 5257 | 5616 | 6033 | 5157 |
| R | 1760 | 2104 | 2561 | 1469 | 999 | 990 | 1068 | 2220 | 4834 | 4158 | 4957 | 4588 | 5543 | 5201 | 5572 | 5998 | 5014 |
| S | 1617 | 1988 | 2414 | 1345 | 909 | 996 | 1148 | 2082 | 4692 | 4174 | 4894 | 4597 | 5492 | 5125 | 5508 | 5942 | 4862 |
| T | 1289 | 1722 | 2074 | 1068 | 750 | 1059 | 1348 | 1763 | 4358 | 4186 | 4730 | 4592 | 5352 | 4933 | 5339 | 5790 | 4512 |
| U | 1161 | 1629 | 1935 | 977 | 740 | 1132 | 1462 | 1639 | 4222 | 4215 | 4679 | 4613 | 5312 | 4868 | 5285 | 5744 | 4365 |
| V | 1046 | 1586 | 1780 | 954 | 863 | 1332 | 1692 | 1526 | 4065 | 4347 | 4692 | 4734 | 5341 | 4857 | 5292 | 5762 | 4180 |
| W | 850 | 1493 | 1412 | 992 | 1181 | 1746 | 2163 | 1274 | 3660 | 4562 | 4639 | 4920 | 5317 | 4750 | 5221 | 5713 | 3719 |
| X | 792 | 1421 | 1057 | 1120 | 1486 | 2088 | 2546 | 1063 | 3228 | 4666 | 4494 | 4992 | 5193 | 4557 | 5055 | 5563 | 3251 |
| Y | 1608 | 1960 | 1076 | 2038 | 2541 | 3147 | 3642 | 1473 | 2336 | 5212 | 4469 | 5461 | 5190 | 4397 | 4947 | 5479 | 2179 |
| Z | 1642 | 1764 | 874 | 2054 | 2609 | 3185 | 3699 | 1322 | 1724 | 4836 | 3880 | 5042 | 4600 | 3775 | 4332 | 4866 | 1703 |
| AA | 1772 | 1749 | 963 | 2151 | 2714 | 3261 | 3777 | 1373 | 1395 | 4637 | 3542 | 4815 | 4260 | 3415 | 3976 | 4509 | 1503 |
| AB | 1327 | 932 | 824 | 1538 | 2057 | 2496 | 2997 | 853 | 1950 | 3576 | 2747 | 3773 | 3465 | 2744 | 3267 | 3790 | 2361 |
| AC | 1429 | 879 | 1126 | 1532 | 1990 | 2352 | 2830 | 1007 | 2194 | 3185 | 2445 | 3381 | 3155 | 2496 | 2993 | 3506 | 2674 |
| AD | 1286 | 638 | 1287 | 1251 | 1622 | 1911 | 2372 | 993 | 2684 | 2859 | 2510 | 3104 | 3187 | 2654 | 3099 | 3584 | 3150 |
| AE | 1628 | 1344 | 2234 | 1224 | 970 | 715 | 1011 | 1787 | 4108 | 2529 | 3360 | 2934 | 3895 | 3668 | 3974 | 4364 | 4515 |
| AF | 2701 | 2166 | 2214 | 2820 | 3255 | 3547 | 3986 | 2247 | 1746 | 3322 | 1624 | 3343 | 2323 | 1449 | 2012 | 2545 | 2442 |
| AG | 2836 | 2301 | 2342 | 2955 | 3389 | 3674 | 4110 | 2382 | 1755 | 3358 | 1568 | 3360 | 2254 | 1358 | 1924 | 2456 | 2463 |