

Projekt:

**Windpark Fuchstal/Denklingen**

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02.05.2013 17:01 / 1

Lizenzierter Anwender:

**Ingenieurbüro Sing, Erneuerbare Energien**

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Berechnet:

02.05.2013 16:53/2.8.544

**DECIBEL - Hauptergebnis**

**Berechnung: Schallprognose N117 Windpark Fuchstal/Denklingen**

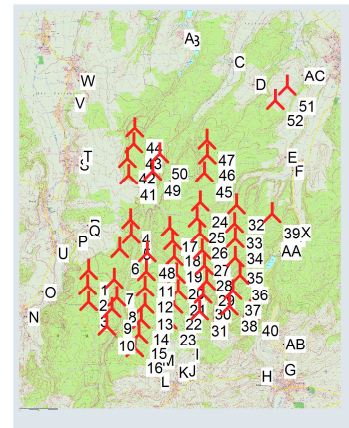
Detaillierte Prognose nach TA-Lärm / DIN ISO 9613-2

Die Berechnung basiert auf der internationalen Norm ISO 9613-2  
"Acoustics - Attenuation of sound during propagation outdoors"

Lautester Wert bis 95% Nennleistung  
Faktor für Meteorologischen Dämpfungskoeffizient, C0: 0,0 dB

Die gültigen Nacht-Immissionsrichtwerte sind entsprechend TA-Lärm festgesetzt auf:

- Industriegebiet: 70 dB(A)
- Dorf- und Mischgebiet, Außenbereich: 45 dB(A)
- Reines Wohngebiet: 35 dB(A)
- Gewerbegebiet: 50 dB(A)
- Allgemeines Wohngebiet: 40 dB(A)
- Kur- und Feriengebiet: 35 dB(A)



Maßstab 1:200.000

Neue WEA

Schall-Immissionsort

**WEA**

| GK (3 deg)-DHDN/PD/Bessel (DE 1995 <=5m) ZWEA Typ | Ost Nord Z |           |       | Beschreibung | Aktuell | Hersteller | Generatortyp    | Nennleistung [kW] | Rotor-durchmesser [m] | Nabenhöhe [m] | Schallwerte |   | Windgeschw. [m/s] | LWA [dB(A)] | Einzel-töne |
|---|------------|-----------|-------|--------------|---------|------------|-----------------|-------------------|-----------------------|---------------|-------------|---|-------------------|-------------|-------------|
|   | Quelle     | Name      |       |              |         |            |                 |                   |                       |               |             |   |                   |             |             |
| 1   | 4.407.331  | 5.303.373 | 806,0 | WEA 1        | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 2   | 4.407.302  | 5.302.962 | 812,0 | WEA 2        | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 3   | 4.407.325  | 5.302.539 | 815,0 | WEA 3        | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 4   | 4.408.437  | 5.304.701 | 780,0 | WEA 4        | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 5   | 4.408.454  | 5.304.311 | 783,0 | WEA 5        | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 6   | 4.408.148  | 5.303.938 | 791,0 | WEA 6        | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 7   | 4.408.008  | 5.303.140 | 798,0 | WEA 8        | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 8   | 4.408.076  | 5.302.660 | 802,0 | WEA 9        | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 9   | 4.407.951  | 5.302.362 | 807,0 | WEA 10       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 10  | 4.407.816  | 5.301.897 | 814,0 | WEA 11       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 11  | 4.408.855  | 5.303.338 | 800,0 | WEA 12       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 12  | 4.408.827  | 5.302.925 | 807,0 | WEA 13       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 13  | 4.408.820  | 5.302.474 | 810,0 | WEA 14       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 14  | 4.408.720  | 5.302.072 | 816,0 | WEA 15       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 15  | 4.408.660  | 5.301.681 | 823,0 | WEA 16       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 16  | 4.408.554  | 5.301.311 | 825,0 | WEA 17       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 17  | 4.409.476  | 5.304.497 | 787,0 | WEA 18       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 18  | 4.409.557  | 5.304.139 | 795,0 | WEA 19       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 19  | 4.409.595  | 5.303.732 | 799,0 | WEA 20       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 20  | 4.409.654  | 5.303.269 | 802,0 | WEA 21       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 21  | 4.409.696  | 5.302.841 | 811,0 | WEA 22       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 22  | 4.409.584  | 5.302.477 | 820,0 | WEA 23       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 23  | 4.409.436  | 5.302.056 | 821,0 | WEA 24       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 24  | 4.410.288  | 5.305.168 | 778,0 | WEA 25       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 25  | 4.410.204  | 5.304.740 | 783,0 | WEA 26       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 26  | 4.410.275  | 5.304.344 | 791,0 | WEA 27       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 27  | 4.410.340  | 5.303.892 | 793,0 | WEA 28       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 28  | 4.410.394  | 5.303.491 | 802,0 | WEA 29       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 29  | 4.410.455  | 5.303.090 | 813,0 | WEA 30       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 30  | 4.410.359  | 5.302.736 | 803,0 | WEA 31       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 31  | 4.410.270  | 5.302.294 | 811,0 | WEA 32       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 32  | 4.411.242  | 5.305.091 | 772,0 | WEA 33       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 33  | 4.411.197  | 5.304.602 | 779,0 | WEA 34       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 34  | 4.411.213  | 5.304.202 | 786,0 | WEA 35       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 35  | 4.411.213  | 5.303.701 | 797,0 | WEA 36       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 36  | 4.411.341  | 5.303.243 | 795,0 | WEA 37       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 37  | 4.411.155  | 5.302.835 | 800,0 | WEA 38       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 38  | 4.411.058  | 5.302.425 | 812,0 | WEA 39       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 39  | 4.412.188  | 5.304.865 | 772,0 | WEA 40       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 40  | 4.411.618  | 5.302.305 | 807,0 | WEA 41       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 41  | 4.408.389  | 5.305.881 | 770,0 | WEA 42       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 42  | 4.408.357  | 5.306.322 | 765,0 | WEA 43       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 43  | 4.408.522  | 5.306.713 | 760,0 | WEA 44       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 44  | 4.408.551  | 5.307.129 | 756,0 | WEA 45       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 45  | 4.410.395  | 5.305.949 | 763,0 | WEA 46       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 46  | 4.410.469  | 5.306.415 | 759,0 | WEA 47       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 47  | 4.410.460  | 5.306.804 | 754,0 | WEA 48       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 48  | 4.408.882  | 5.303.821 | 792,0 | WEA 49       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 49  | 4.409.026  | 5.305.993 | 766,0 | WEA 50       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 50  | 4.409.213  | 5.306.446 | 762,0 | WEA 51       | Nein    | NORDEX     | N117-2.400      | 2.400             | 117,0                 | 141,0         | EMD         | Level 0 - Calculated -- 09-2011         | 10,0              | 105,0       | 0 dB        |
| 51  | 4.412.589  | 5.308.244 | 734,0 | Bestand V90  | Ja      | VESTAS     | V90-2.000       | 2.000             | 90,0                  | 105,0         | EMD         | Level 0 - calculated - Mode 0 - 07-2009 | 10,0              | 104,0       | 0 dB        |
| 52  | 4.412.273  | 5.307.867 | 735,0 | Bestand V80  | Ja      | VESTAS     | V80-2.0MW-2.000 | 2.000             | 80,0                  | 100,0         | EMD         | Mode 0                                  | 8,4               | 105,4       | 0 dB        |

**Berechnungsergebnisse**

Projekt:

Windpark Fuchstal/Denklingen

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## DECIBEL - Hauptergebnis

Berechnung: Schallprognose N117 Windpark Fuchstal/Denklingen

### Beurteilungspegel

| Schall-Immissionsort<br>Nr. | Name                                   | GK (3 deg)-DHDN/PD/Bessel (DE 1995 <±5m) Z |           |       |                     | Z<br>[m] | Schall<br>[dB(A)] | Beurteilungspegel<br>Von WEA<br>[dB(A)] | Anforderungen erfüllt?<br>Schall |
|-----------------------------|--|--|-----------|-------|---------------------|----------|-------------------|---|----------------------------------|
|                             |  | Ost  | Nord      | Z     | Aufpunkthöhe<br>[m] |          |                   |   |                                  |
|                             | A Welden 8 A                           | 4.409.811                                  | 5.309.509 | 715,0 | 5,0                 | 45,0     | 28,3              | Ja                                      |                                  |
|                             | B Welden 6                             | 4.409.961                                  | 5.309.445 | 709,0 | 5,0                 | 45,0     | 28,5              | Ja                                      |                                  |
|                             | C Aschthal 1                           | 4.411.135                                  | 5.308.902 | 694,0 | 5,0                 | 45,0     | 31,9              | Ja                                      |                                  |
|                             | D Schäfmoos 2                          | 4.411.694                                  | 5.308.288 | 722,0 | 5,0                 | 45,0     | 38,6              | Ja                                      |                                  |
|                             | E Dienhausen Neuwäldleweg 22           | 4.412.520                                  | 5.306.356 | 731,0 | 5,0                 | 45,0     | 34,7              | Ja                                      |                                  |
|                             | F Diehausen Weihertalstraße 24         | 4.412.724                                  | 5.306.003 | 722,0 | 5,0                 | 45,0     | 35,1              | Ja                                      |                                  |
|                             | G Schwabsoien Hochsteig 6              | 4.412.445                                  | 5.300.738 | 755,0 | 5,0                 | 45,0     | 31,7              | Ja                                      |                                  |
|                             | H Schwabsoien Kaufbeurer Straße 36     | 4.411.833                                  | 5.300.565 | 762,0 | 5,0                 | 45,0     | 31,9              | Ja                                      |                                  |
|                             | I Im Dornau 1                          | 4.410.096                                  | 5.301.150 | 819,0 | 5,0                 | 45,0     | 38,5              | Ja                                      |                                  |
|                             | J Sachsenried Dornastraße 13           | 4.409.916                                  | 5.300.719 | 817,0 | 5,0                 | 45,0     | 37,0              | Ja                                      |                                  |
|                             | K Sachsenried Pfarrer-Weinmüller-Str.4 | 4.409.658                                  | 5.300.669 | 848,0 | 5,0                 | 45,0     | 37,6              | Ja                                      |                                  |
|                             | L Sachsenrieder Forstraße 7            | 4.409.185                                  | 5.300.436 | 859,0 | 5,0                 | 45,0     | 37,3              | Ja                                      |                                  |
|                             | M Dietfried 1                          | 4.409.180                                  | 5.300.994 | 847,0 | 5,0                 | 45,0     | 41,8              | Ja                                      |                                  |
|                             | N Ödwang An der Mühle 12               | 4.405.688                                  | 5.302.148 | 747,0 | 5,0                 | 45,0     | 33,0              | Ja                                      |                                  |
|                             | O Salabeuren Bidinger Str.2            | 4.406.114                                  | 5.302.803 | 756,0 | 5,0                 | 45,0     | 36,8              | Ja                                      |                                  |
|                             | P Stocken Forstraße 25                 | 4.406.996                                  | 5.304.110 | 766,0 | 5,0                 | 45,0     | 39,9              | Ja                                      |                                  |
|                             | Q Mähder 3                             | 4.407.289                                  | 5.304.400 | 798,0 | 5,0                 | 45,0     | 40,5              | Ja                                      |                                  |
|                             | R Mähder 7                             | 4.407.310                                  | 5.304.555 | 792,0 | 5,0                 | 45,0     | 40,1              | Ja                                      |                                  |
|                             | S Frankenhofen Buch 5                  | 4.407.035                                  | 5.306.163 | 744,0 | 5,0                 | 45,0     | 35,7              | Ja                                      |                                  |
|                             | T Frankenhofen Bergstraße 21           | 4.407.139                                  | 5.306.384 | 760,0 | 5,0                 | 45,0     | 36,6              | Ja                                      |                                  |
|                             | U Osterzell Dorfstraße 31              | 4.406.462                                  | 5.303.805 | 738,0 | 5,0                 | 45,0     | 37,6              | Ja                                      |                                  |
|                             | V Hof Römerturmstraße 41               | 4.406.922                                  | 5.307.804 | 757,0 | 5,0                 | 45,0     | 31,7              | Ja                                      |                                  |
|                             | W Aufkirch Waldstraße 20               | 4.407.063                                  | 5.308.377 | 735,0 | 5,0                 | 45,0     | 29,9              | Ja                                      |                                  |
|                             | X Weihertalstraße 29                   | 4.412.899                                  | 5.304.362 | 737,0 | 5,0                 | 45,0     | 37,0              | Ja                                      |                                  |
|                             | Y Weihertalstraße 31                   | 4.412.746                                  | 5.304.190 | 740,0 | 5,0                 | 45,0     | 37,8              | Ja                                      |                                  |
|                             | Z Weihertalstraße 28                   | 4.412.437                                  | 5.303.999 | 745,0 | 5,0                 | 45,0     | 39,1              | Ja                                      |                                  |
|                             | AA Weihertalstraße 33                  | 4.412.367                                  | 5.303.859 | 747,0 | 5,0                 | 45,0     | 39,4              | Ja                                      |                                  |
|                             | AB Schwabsoien Landsberger Str.        | 4.412.481                                  | 5.301.424 | 797,0 | 5,0                 | 45,0     | 34,9              | Ja                                      |                                  |
|                             | AC Menhofen 5                          | 4.412.974                                  | 5.308.518 | 715,0 | 5,0                 | 45,0     | 41,1              | Ja                                      |                                  |

### Abstände (m)

| WEA | A    | B    | C    | D    | E    | F    | G    | H    | I    | J    | K    | L    | M    | N    | O    | P    | Q    | R    | S    | T    | U    | V    |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1   | 6616 | 6615 | 6688 | 6546 | 5984 | 5995 | 5751 | 5304 | 3539 | 3704 | 3566 | 3472 | 3013 | 2049 | 1344 | 797  | 1028 | 1177 | 2792 | 3016 | 970  | 4446 |
| 2   | 7009 | 7005 | 7046 | 6877 | 6223 | 6212 | 5602 | 5124 | 3320 | 3443 | 3286 | 3150 | 2720 | 1808 | 1199 | 1175 | 1438 | 1587 | 3198 | 3424 | 1190 | 4853 |
| 3   | 7398 | 7390 | 7394 | 7194 | 6445 | 6411 | 5426 | 4920 | 3087 | 3165 | 2989 | 2807 | 2414 | 1683 | 1239 | 1591 | 1861 | 2010 | 3622 | 3848 | 1532 | 5277 |
| 4   | 4999 | 4982 | 4970 | 4819 | 4405 | 4475 | 5635 | 5350 | 3918 | 4247 | 4211 | 4329 | 3780 | 3751 | 2999 | 1557 | 1183 | 1134 | 2019 | 2124 | 2168 | 3452 |
| 5   | 5371 | 5349 | 5295 | 5104 | 4550 | 4588 | 5355 | 5043 | 3561 | 3877 | 3834 | 3942 | 3395 | 3511 | 2783 | 1472 | 1168 | 1170 | 2325 | 2454 | 2055 | 3813 |
| 6   | 5812 | 5796 | 5771 | 5586 | 4995 | 5016 | 5356 | 4994 | 3398 | 3671 | 3599 | 3651 | 3119 | 3042 | 2329 | 1165 | 975  | 1040 | 2478 | 2645 | 1691 | 4054 |
| 7   | 6617 | 6599 | 6534 | 6306 | 5540 | 5513 | 5044 | 4609 | 2877 | 3081 | 2970 | 2948 | 2445 | 2523 | 1924 | 1393 | 1450 | 1577 | 3164 | 3357 | 1683 | 4787 |
| 8   | 7063 | 7040 | 6931 | 6665 | 5779 | 5722 | 4772 | 4300 | 2513 | 2674 | 2542 | 2484 | 1998 | 2442 | 1967 | 1797 | 1909 | 2043 | 3642 | 3838 | 1978 | 5270 |
| 9   | 7383 | 7361 | 7253 | 6983 | 6067 | 6000 | 4777 | 4276 | 2453 | 2560 | 2403 | 2287 | 1839 | 2273 | 1889 | 1980 | 2142 | 2284 | 3897 | 4101 | 2073 | 5536 |
| 10  | 7867 | 7845 | 7731 | 7450 | 6480 | 6396 | 4771 | 4231 | 2385 | 2407 | 2213 | 2002 | 1636 | 2140 | 1925 | 2347 | 2557 | 2703 | 4324 | 4536 | 2339 | 5971 |
| 11  | 6243 | 6205 | 5994 | 5681 | 4747 | 4695 | 4432 | 4068 | 2514 | 2825 | 2786 | 2920 | 2366 | 3383 | 2792 | 2009 | 1892 | 1966 | 3351 | 3495 | 2438 | 4865 |
| 12  | 6655 | 6616 | 6389 | 6056 | 5040 | 4963 | 4227 | 3820 | 2179 | 2459 | 2403 | 2514 | 1963 | 3233 | 2715 | 2175 | 2130 | 2226 | 3691 | 3847 | 2523 | 5236 |
| 13  | 7102 | 7062 | 6814 | 6460 | 5361 | 5260 | 4018 | 3566 | 1833 | 2068 | 1989 | 2070 | 1523 | 3149 | 2725 | 2442 | 2460 | 2570 | 4087 | 4254 | 2707 | 5656 |
| 14  | 7514 | 7475 | 7226 | 6866 | 5725 | 5609 | 3956 | 3457 | 1647 | 1805 | 1687 | 1700 | 1172 | 3031 | 2706 | 2659 | 2732 | 2854 | 4413 | 4591 | 2846 | 6005 |
| 15  | 7910 | 7870 | 7615 | 7245 | 6060 | 5931 | 3900 | 3362 | 1518 | 1581 | 1420 | 1351 | 862  | 3005 | 2780 | 2933 | 3044 | 3174 | 4755 | 4941 | 3056 | 6363 |
| 16  | 8291 | 8253 | 8000 | 7626 | 6415 | 6275 | 3932 | 3362 | 1534 | 1484 | 1276 | 1078 | 702  | 2980 | 2856 | 3191 | 3337 | 3473 | 5072 | 5265 | 3254 | 6693 |
| 17  | 5022 | 4971 | 4689 | 4367 | 3566 | 3576 | 4789 | 4583 | 3403 | 3802 | 3831 | 4068 | 3507 | 4456 | 3764 | 2510 | 2188 | 2166 | 2951 | 3002 | 3092 | 4177 |
| 18  | 5374 | 5320 | 5001 | 4642 | 3700 | 3671 | 4461 | 4236 | 3036 | 3438 | 3470 | 3719 | 3158 | 4350 | 3692 | 2561 | 2282 | 2285 | 3229 | 3298 | 3113 | 4512 |
| 19  | 5779 | 5723 | 5378 | 4992 | 3929 | 3863 | 4133 | 3877 | 2629 | 3029 | 3062 | 3318 | 2759 | 4215 | 3602 | 2626 | 2400 | 2428 | 3524 | 3613 | 3133 | 4869 |
| 20  | 6240 | 6182 | 5809 | 5393 | 4211 | 4109 | 3767 | 3472 | 2164 | 2562 | 2599 | 2868 | 2311 | 4121 | 3570 | 2785 | 2621 | 2673 | 3896 | 4002 | 3236 | 5293 |
| 21  | 6667 | 6608 | 6214 | 5778 | 4507 | 4376 | 3460 | 3121 | 1737 | 2132 | 2171 | 2455 | 1903 | 4067 | 3582 | 2978 | 2867 | 2937 | 4248 | 4368 | 3374 | 5684 |
| 22  | 7034 | 6977 | 6594 | 6158 | 4863 | 4720 | 3347 | 2951 | 1422 | 1789 | 1809 | 2076 | 1523 | 3909 | 3485 | 3054 | 2993 | 3080 | 4472 | 4607 | 3392 | 5953 |
| 23  | 7460 | 7406 | 7038 | 6604 | 5289 | 5136 | 3284 | 2822 | 1118 | 1420 | 1404 | 1636 | 1080 | 3747 | 3404 | 3181 | 3178 | 3280 | 4747 | 4898 | 3449 | 6272 |
| 24  | 4366 | 4289 | 3815 | 3398 | 2528 | 2571 | 4926 | 4854 | 4021 | 4461 | 4540 | 4854 | 4304 | 5502 | 4796 | 3457 | 3092 | 3037 | 3401 | 3374 | 4061 | 4274 |
| 25  | 4784 | 4710 | 4251 | 3824 | 2824 | 2815 | 4586 | 4480 | 3590 | 4028 | 4105 | 4418 | 3868 | 5206 | 4525 | 3269 | 2932 | 2898 | 3472 | 3477 | 3857 | 4488 |
| 26  | 5184 | 5110 | 4625 | 4168 | 3014 | 2955 | 4207 | 4086 | 3198 | 3640 | 3723 | 4052 | 3508 | 5085 | 4436 | 3287 | 2986 | 2972 | 3713 | 3740 | 3850 | 4817 |
| 27  | 5640 | 5565 | 5060 | 4576 | 3289 | 3182 | 3791 | 3645 | 2752 | 3198 | 3291 | 3639 | 3103 | 4967 | 4363 | 3351 | 3092 | 3101 | 4006 | 4055 | 3878 | 5193 |
| 28  | 6045 | 5968 | 5449 | 4947 | 3566 | 3425 | 3432 | 3260 | 2359 | 2809 | 2913 | 3280 | 2755 | 4893 | 4334 | 3453 | 3234 | 3262 | 4287 | 4353 | 3944 | 5535 |
| 29  | 6449 | 6373 | 5840 | 5321 | 3861 | 3691 | 3080 | 2876 | 1972 | 2428 | 2545 | 2936 | 2430 | 4858 | 4350 | 3603 | 3425 | 3469 | 4591 | 4672 | 4056 | 5889 |
| 30  | 6793 | 6719 | 6202 | 5687 | 4213 | 4032 | 2888 | 2623 | 1607 | 2061 | 2178 | 2576 | 2078 | 4707 | 4245 | 3628 | 3491 | 3550 | 4767 | 4864 | 4040 | 6122 |

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Projekt:

Windpark Fuchstal/Denklingen

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Berechnet:

02.05.2013 16:53/2.8.544

## DECIBEL - Hauptergebnis

Berechnung: Schallprognose N117 Windpark Fuchstal/Denklingen

...Fortsetzung von der vorigen Seite

| WEA | A    | B    | C    | D    | E    | F    | G    | H    | I    | J    | K    | L    | M    | N    | O    | P    | Q    | R    | S    | T    | U    | V    |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 31  | 7228 | 7156 | 6652 | 6138 | 4640 | 4446 | 2674 | 2330 | 1157 | 1611 | 1732 | 2145 | 1669 | 4583 | 4186 | 3738 | 3649 | 3724 | 5035 | 5149 | 4096 | 6445 |
| 32  | 4643 | 4536 | 3805 | 3208 | 1798 | 1737 | 4515 | 4561 | 4103 | 4564 | 4692 | 5083 | 4565 | 6284 | 5614 | 4357 | 4010 | 3966 | 4340 | 4300 | 4949 | 5100 |
| 33  | 5098 | 4996 | 4293 | 3698 | 2196 | 2071 | 4059 | 4084 | 3622 | 4084 | 4218 | 4620 | 4110 | 6030 | 5391 | 4229 | 3911 | 3886 | 4444 | 4430 | 4801 | 5340 |
| 34  | 5488 | 5389 | 4693 | 4093 | 2517 | 2350 | 3676 | 3687 | 3249 | 3711 | 3855 | 4270 | 3773 | 5893 | 5286 | 4217 | 3928 | 3918 | 4613 | 4620 | 4767 | 5601 |
| 35  | 5973 | 5877 | 5194 | 4591 | 2956 | 2753 | 3208 | 3194 | 2784 | 3246 | 3402 | 3836 | 3359 | 5738 | 5176 | 4236 | 3985 | 3995 | 4846 | 4876 | 4751 | 5935 |
| 36  | 6448 | 6352 | 5655 | 5037 | 3325 | 3086 | 2737 | 2720 | 2434 | 2892 | 3069 | 3531 | 3089 | 5757 | 5244 | 4429 | 4213 | 4238 | 5198 | 5244 | 4910 | 6349 |
| 37  | 6806 | 6715 | 6058 | 5458 | 3772 | 3534 | 2461 | 2368 | 1989 | 2446 | 2626 | 3096 | 2669 | 5509 | 5040 | 4347 | 4170 | 4211 | 5290 | 5357 | 4791 | 6525 |
| 38  | 7191 | 7104 | 6468 | 5876 | 4190 | 3946 | 2183 | 2014 | 1597 | 2046 | 2239 | 2723 | 2328 | 5376 | 4957 | 4393 | 4254 | 4310 | 5485 | 5569 | 4798 | 6783 |
| 39  | 5216 | 5088 | 4171 | 3442 | 1523 | 1257 | 4131 | 4307 | 4262 | 4721 | 4893 | 5343 | 4875 | 7044 | 6413 | 5246 | 4918 | 4886 | 5312 | 5271 | 5822 | 6029 |
| 40  | 7425 | 7327 | 6608 | 5963 | 4145 | 3859 | 1771 | 1750 | 1909 | 2318 | 2544 | 3058 | 2732 | 5930 | 5525 | 4957 | 4808 | 4859 | 5984 | 6056 | 5369 | 7229 |
| 41  | 3895 | 3894 | 4057 | 4064 | 4157 | 4330 | 6548 | 6332 | 5028 | 5382 | 5362 | 5501 | 4950 | 4607 | 3827 | 2253 | 1834 | 1700 | 1382 | 1347 | 2828 | 2418 |
| 42  | 3502 | 3510 | 3765 | 3847 | 4162 | 4371 | 6919 | 6723 | 5455 | 5814 | 5799 | 5942 | 5390 | 4953 | 4172 | 2596 | 2187 | 2044 | 1331 | 1219 | 3145 | 2062 |
| 43  | 3078 | 3087 | 3382 | 3515 | 4013 | 4253 | 7146 | 6981 | 5779 | 6152 | 6148 | 6310 | 5755 | 5372 | 4591 | 3016 | 2610 | 2465 | 1585 | 1420 | 3558 | 1936 |
| 44  | 2692 | 2711 | 3106 | 3323 | 4042 | 4312 | 7482 | 7337 | 6173 | 6552 | 6552 | 6721 | 6165 | 5744 | 4964 | 3395 | 2995 | 2847 | 1797 | 1593 | 3919 | 1763 |
| 45  | 3607 | 3522 | 3030 | 2651 | 2163 | 2323 | 5598 | 5571 | 4807 | 5248 | 5328 | 5639 | 5087 | 6049 | 5312 | 3864 | 3464 | 3380 | 3366 | 3284 | 4477 | 3936 |
| 46  | 3162 | 3072 | 2560 | 2213 | 2051 | 2284 | 6009 | 6005 | 5276 | 5719 | 5800 | 6110 | 5558 | 6407 | 5657 | 4167 | 3757 | 3659 | 3442 | 3329 | 4779 | 3808 |
| 47  | 2781 | 2687 | 2188 | 1905 | 2108 | 2392 | 6381 | 6386 | 5664 | 6105 | 6184 | 6490 | 5935 | 6666 | 5906 | 4387 | 3971 | 3863 | 3483 | 3346 | 4994 | 3676 |
| 48  | 5762 | 5725 | 5539 | 5253 | 4433 | 4415 | 4710 | 4393 | 2933 | 3269 | 3245 | 3397 | 2841 | 3605 | 2949 | 1907 | 1694 | 1735 | 2975 | 3098 | 2420 | 4438 |
| 49  | 3601 | 3576 | 3570 | 3494 | 3512 | 3691 | 6268 | 6109 | 4958 | 5347 | 5359 | 5557 | 4997 | 5091 | 4318 | 2768 | 2348 | 2231 | 1997 | 1926 | 3367 | 2775 |
| 50  | 3120 | 3090 | 3095 | 3065 | 3307 | 3531 | 6558 | 6436 | 5367 | 5768 | 5792 | 6007 | 5446 | 5557 | 4782 | 3220 | 2799 | 2674 | 2195 | 2074 | 3809 | 2662 |
| 51  | 3049 | 2879 | 1596 | 896  | 1874 | 2233 | 7501 | 7708 | 7517 | 7979 | 8116 | 8510 | 7989 | 9206 | 8456 | 6953 | 6538 | 6432 | 5929 | 5755 | 7562 | 5682 |
| 52  | 2958 | 2790 | 1538 | 715  | 1519 | 1905 | 7125 | 7307 | 7059 | 7520 | 7652 | 8040 | 7515 | 8720 | 7972 | 6476 | 6063 | 5959 | 5506 | 5341 | 7086 | 5350 |

| WEA | W    | X    | Y    | Z    | AA   | AB   | AC   |
|-----|------|------|------|------|------|------|------|
| 1   | 5006 | 5642 | 5470 | 5143 | 5058 | 5505 | 7634 |
| 2   | 5415 | 5757 | 5575 | 5237 | 5142 | 5401 | 7938 |
| 3   | 5839 | 5852 | 5661 | 5315 | 5210 | 5274 | 8223 |
| 4   | 3923 | 4461 | 4331 | 4060 | 4018 | 5203 | 5927 |
| 5   | 4296 | 4431 | 4286 | 3994 | 3938 | 4953 | 6173 |
| 6   | 4567 | 4756 | 4598 | 4288 | 4218 | 5008 | 6651 |
| 7   | 5318 | 5029 | 4847 | 4511 | 4416 | 4789 | 7318 |
| 8   | 5802 | 5103 | 4909 | 4561 | 4454 | 4574 | 7634 |
| 9   | 6076 | 5325 | 5127 | 4774 | 4661 | 4625 | 7943 |
| 10  | 6519 | 5638 | 5433 | 5075 | 4954 | 4688 | 8391 |
| 11  | 5347 | 4159 | 3978 | 3642 | 3549 | 4099 | 6616 |
| 12  | 5728 | 4307 | 4113 | 3766 | 3660 | 3949 | 6961 |
| 13  | 6157 | 4484 | 4281 | 3925 | 3806 | 3807 | 7332 |
| 14  | 6516 | 4755 | 4546 | 4186 | 4060 | 3815 | 7721 |
| 15  | 6881 | 5006 | 4792 | 4431 | 4298 | 3828 | 8082 |
| 16  | 7218 | 5300 | 5083 | 4722 | 4584 | 3926 | 8452 |
| 17  | 4568 | 3412 | 3276 | 3002 | 2960 | 4297 | 5328 |
| 18  | 4916 | 3336 | 3182 | 2883 | 2823 | 3989 | 5553 |
| 19  | 5289 | 3351 | 3178 | 2854 | 2774 | 3694 | 5857 |
| 20  | 5726 | 3413 | 3221 | 2877 | 2775 | 3375 | 6209 |
| 21  | 6129 | 3535 | 3331 | 2975 | 2857 | 3124 | 6553 |
| 22  | 6414 | 3804 | 3593 | 3233 | 3106 | 3081 | 6925 |
| 23  | 6750 | 4152 | 3936 | 3574 | 3440 | 3109 | 7365 |
| 24  | 4548 | 2718 | 2636 | 2446 | 2456 | 4337 | 4293 |
| 25  | 4804 | 2707 | 2592 | 2352 | 2335 | 4021 | 4683 |
| 26  | 5154 | 2611 | 2468 | 2189 | 2147 | 3658 | 4969 |
| 27  | 5553 | 2589 | 2418 | 2099 | 2027 | 3266 | 5322 |
| 28  | 5912 | 2641 | 2449 | 2105 | 2006 | 2936 | 5649 |
| 29  | 6280 | 2745 | 2538 | 2180 | 2060 | 2622 | 5982 |
| 30  | 6532 | 3007 | 2793 | 2431 | 2300 | 2494 | 6344 |
| 31  | 6875 | 3337 | 3117 | 2757 | 2616 | 2375 | 6784 |
| 32  | 5315 | 1795 | 1743 | 1618 | 1666 | 3869 | 3839 |
| 33  | 5597 | 1705 | 1594 | 1379 | 1386 | 3426 | 4299 |
| 34  | 5885 | 1681 | 1526 | 1241 | 1204 | 3053 | 4660 |
| 35  | 6250 | 1800 | 1605 | 1260 | 1164 | 2605 | 5127 |
| 36  | 6681 | 1910 | 1693 | 1331 | 1196 | 2146 | 5520 |
| 37  | 6887 | 2311 | 2089 | 1731 | 1586 | 1935 | 5965 |
| 38  | 7167 | 2666 | 2441 | 2091 | 1941 | 1739 | 6385 |
| 39  | 6211 | 854  | 862  | 895  | 1011 | 3452 | 3735 |

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Projekt:

Windpark Fuchstal/Denklingen

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**DECIBEL - Hauptergebnis****Berechnung:** Schallprognose N117 Windpark Fuchstal/Denklingen

...Fortsetzung von der vorigen Seite

| WEA | W    | X    | Y    | Z    | AA   | AB   | AC   |
|-----|------|------|------|------|------|------|------|
| 40  | 7589 | 2420 | 2196 | 1877 | 1723 | 1233 | 6357 |
| 41  | 2826 | 4744 | 4664 | 4463 | 4461 | 6049 | 5288 |
| 42  | 2428 | 4931 | 4869 | 4694 | 4705 | 6401 | 5111 |
| 43  | 2213 | 4952 | 4909 | 4762 | 4787 | 6604 | 4803 |
| 44  | 1942 | 5136 | 5111 | 4988 | 5024 | 6925 | 4635 |
| 45  | 4122 | 2947 | 2926 | 2823 | 2871 | 4981 | 3639 |
| 46  | 3930 | 3162 | 3171 | 3114 | 3179 | 5379 | 3270 |
| 47  | 3742 | 3431 | 3459 | 3429 | 3503 | 5745 | 3042 |
| 48  | 4905 | 4040 | 3875 | 3559 | 3484 | 4323 | 6228 |
| 49  | 3087 | 4187 | 4124 | 3950 | 3963 | 5726 | 4685 |
| 50  | 2889 | 4217 | 4181 | 4046 | 4078 | 5990 | 4293 |
| 51  | 5526 | 3873 | 4032 | 4237 | 4377 | 6818 | 472  |
| 52  | 5233 | 3538 | 3683 | 3861 | 3996 | 6444 | 956  |