



Noise levels

Nordex N100/2500

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Noise Emission Nordex N100/2500

Noise level according to IEC 61400-11: 2002 [1]

Maximum sound power level over the complete operating range of the turbine
$L_{WA} = 106.0 \text{ dB(A)}$

The noise can be tonal in the vicinity of wind turbines. The specified sound power level includes potential tonal penalties K_{TN} according to „Technische Richtlinien für Windenergieanlagen“ [2], without taking account any tonality $K_{TN} \leq 2 \text{ dB}$.

The specified sound power levels are expected values in terms of statistics. Results of single measurements will be within the confidence interval according to IEC 61400-14 [4].

Measurements are to be carried out by a measuring institute accredited for noise emission measurements at wind turbines according to ISO/IEC 17025 [3] at the reference position as defined in IEC 61400-11 [1]. The data analysis must be carried out according to the preferred method 1 of IEC 61400-11 [1]. The tonal penalties in the vicinity of wind turbines K_{TN} based on these measurements are to be determined according to „Technische Richtlinien für Windenergieanlagen“ [2].

- [1] IEC 61400-11 ed. 2: Wind Turbine Generator Systems – Part 11: Acoustic Noise Measurement Techniques; 2002-12
- [2] Technische Richtlinie für Windenergieanlagen – Teil 1: Bestimmung der Schallemissionswerte, Revision 18; FGW 2008-02
- [3] ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories; 2005-08
- [4] IEC 61400-14, Wind turbines – Part 14: Declaration of apparent sound power level and tonality values, first edition, 2005-03