



Industrie Service

**Choose certainty.  
Add value.**

## Immission Analyses by TÜV SÜD – Providing Peace of Mind for Residents.

Wind power plants frequently worry residents in the surrounding areas who are irritated by the visible changes in their familiar environment and by the noise emissions and shadow flicker produced by the erected turbines. Due to the nature of the design and functioning of wind turbines both are unavoidable. Nevertheless, protest from residents following the erection of the wind farm may have serious implications: a temporary shutdown of the turbine, for example, may considerably reduce the profitability of the site.

Hence it makes sense to leave the preparation of the required immission prognoses in the capable hands of a company that is highly respected for its impartiality and objectivity: TÜV SÜD.

TÜV SÜD expert reports are prepared in accordance with the latest standards and directives. With branches in over 40 countries around the world, we guarantee that our calculations and analyses are based on the relevant national regulations.

We are accredited for the required services as a testing laboratory in accordance with EN 17025. All regulatory bodies recognise our immission prognoses as a basis for immission assessments of planned wind farm sites. If you must furnish evidence of noise emissions to obtain a permit, our acoustic experts will be happy to carry out the required measurements.

TÜV SÜD is a Notified Body for the measurement of noise levels of wind power plant as per Art. 26 of the Federal Immission Control Act which assures that calculated ambient noise levels correspond to the actual rating levels.

As your process and service partner, we support you by providing unparalleled interdisciplinary engineering know-how. Our first-class reputation, recognition and acceptance around the world are built on technical expertise, high standards of economic and ecological project realisation, impartiality and objectivity. For your benefit.

TÜV SÜD Industrie Service GmbH

TÜV®



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[www.tuev-sued.com/windenergy](http://www.tuev-sued.com/windenergy)

## Choose an Accredited Partner for Immission Analyses: TÜV SÜD

### TÜV SÜD Services

- Site assessment; input data is recorded using high-precision measurement instruments (laser measurement, GPS positioning)
- Consideration of current standards and directives as well as of national criteria
- Calculation of existing, additional and overall noise levels at the respective site
- Presentation of results in tabular and graphic form
- Detailed assessment of uncertainties in calculated noise levels
- Determination and plotting of the identical curves of noise (isophonic curves) or shadow flicker for a planned wind farm. This method can be applied to assess critical sites.
- Application of 'guaranteed' noise levels or noise levels measured in accordance with the FGW standard for the defined installation types

- Use of detailed geometries, including blade depth
- Comparison of results with specific national requirements for emission sites
- Proposed solutions if critical values are exceeded (e.g. relocation, change of hub heights)

Both manufacturers and owners/operators of plants and installations appreciate TÜV SÜD as an internationally leading provider of engineering and test services with a staff of 4,000, specialising in the assessment and advancement of systems on a daily basis. TÜV SÜD's strengths include unparalleled interdisciplinary engineering know-how and outstanding familiarity with all relevant directives and standards.

Rely on a qualified partner. We provide international services. Call us!

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