



Industrie Service

**Choose certainty.
Add value.**

Power Curve Measurement by TÜV SÜD – for Guaranteed Energy Yield.

The question preceding every investment decision in the field of wind energy is: how much energy can be produced with the prevailing wind conditions? In other words: the connection between the wind potential and the electrical power generated is the single most fundamental property of a wind energy plant.

Ensure reliable measurement of the power curves of your wind turbines and leave this task in the capable hands of a partner offering unparalleled interdisciplinary engineering know-how, impartiality and high quality standards: TÜV SÜD.

Our wind energy experts measure the power curves of your installations in accordance with the latest standards and directives (IEC, FGW). This gives you the certainty you need and makes good economic sense. After all, differences between theory (calculated curve) and practice have negative consequences for all stakeholders.

Manufacturers benefit from reliable test results which they can use to improve the efficiency of their installations. Of course, we also offer to test the power curves of prototypes and provide all the information needed to further develop and improve their new products.

With our measurements we help owners/operators and investors to verify the performance characteristics guaranteed by the turbine manufacturer. Our results establish a reliable basis for the verification of calculated energy yields and are used to prepare energy-yield assessments. A guaranteed power curve can thus be verified by means of reliable measurements.

Choose a partner with a first-class reputation and the highest level of acceptance worldwide – TÜV SÜD.

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www.tuev-sued.com/windenergy

Choose a Qualified Partner for Power Curve Measurement: TÜV SÜD

TÜV SÜD Services

- Site assessment; input data are recorded using high-precision measurement instruments (laser measurement, GPS positioning)
- Assessment of site conditions on the basis of topographic maps and satellite data (immediate and wider environment)
- Application of current standards and directives (IEC, FGW)
- Determination of the measurement sector
- Calibration of complex sites prior to the measurement
- Prototype testing and optimisation of wind power plants
- Power-curve measurement within the scope of warranty claims
- Presentation of results in tabular and graphic form
- Comparison of the results with the project-specific power curve guaranteed by the manufacturer

- Consultation on the future approach; follow-up support by our wind energy experts
- Combination with stress analyses upon request

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 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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TÜV SÜD Industrie Service GmbH • Tel./Fax: +49 (0)941 460212-0 / -29
Contact: Peter H. Meier • E-mail: peter-h.meier@tuev-sued.de