



Industrie Service

**Choose certainty.
Add value.**

Stress Analyses by TÜV SÜD – The Basis for a Safe Decision.

Wind power plants are exposed to a wide variety of different stresses: constantly changing wind conditions, air temperatures and atmospheric pressure fluctuations as well as mechanical stresses. The vibrations/oscillations of a wind turbine also may cause dangerous natural frequencies. Early measurement and analyses help to identify and eliminate the root causes before they cause problems.

We, TÜV SÜD's wind energy experts, support your measurements and analyses with all our know-how.

As a leading international provider of engineering and test services, we offer unparalleled interdisciplinary know-how and an ideal technical infrastructure for your assignments and projects.

Our on-site load measurements of your wind turbines supply critical information about the safety and security of your wind farm project.

Prototype tests carried out by our experts verify the properties of newly designed machinery before it is used in practice. Weaknesses are identified at early stages of design and development, failures prevented and considerable cost savings achieved. To ensure that component wear caused by excessive loads is identified at an early stage, our wind energy experts assist you with load measurements.

Leave your analyses and measurements in the capable hands of an expert partner who can assist you and is well versed in all relevant directives and standards – TÜV SÜD.



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www.tuev-sued.com/windenergy

Choose a Strong Partner for Your Stress Analyses: TÜV SÜD

TÜV SÜD Services

- On-site analysis of existing wind power plants
- Vibration analysis and calculation of natural frequencies
- Prototype analysis
- Load measurement
- Comparison of site-related loads with the values simulated during design and development
- Verification of calculated theoretical values
- Numerical simulation of operational loads

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 first-class reputation, worldwide recognition and acceptance are built on technical expertise, high standards of economic and ecological project realisation, impartiality and objectivity. For your benefit.

We provide international services. Call us!

TÜV SÜD. Choose certainty. Add value.

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