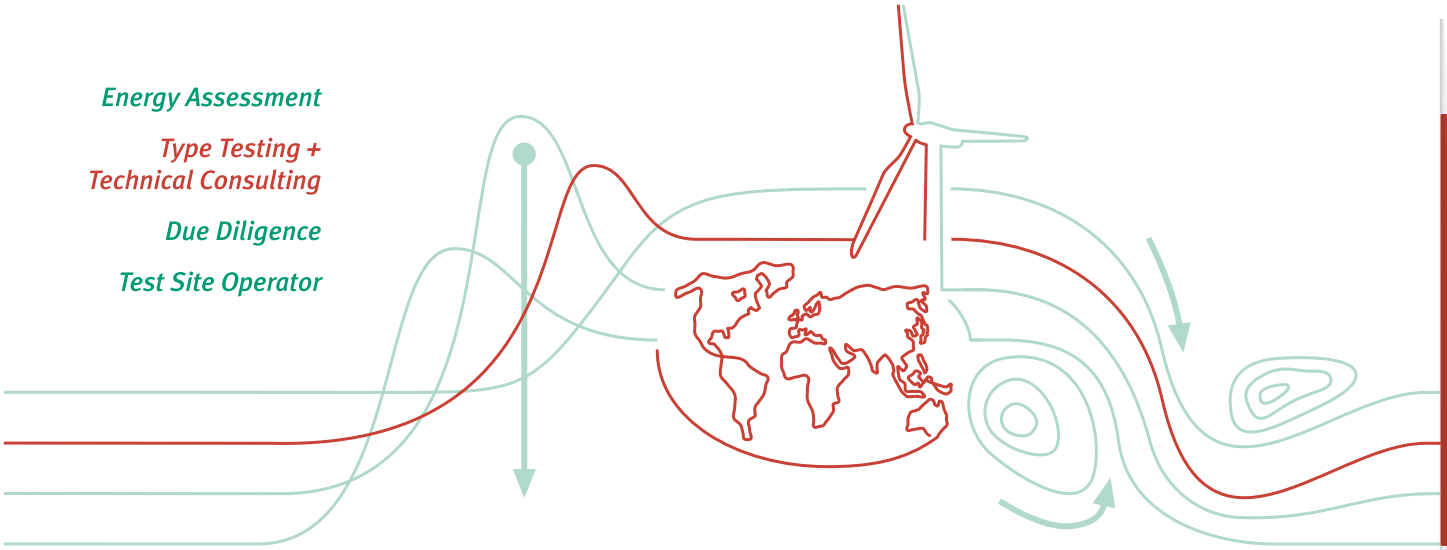

Sound measurements

The noise emission parameter of a wind turbine (WT) is an important characteristic attribute of each WT and often the basis for the project planning of a single WT and whole wind farms. This is necessary to avoid unacceptably exceeding the immission guide values and to ensure the protection of residents from excessive noise immissions. Unacceptable deviations in the noise emission of a running WT could result in exceeding the immission guide values and, in the worst case, might lead to the shutdown of an existing WT.

Customer benefits

We support our customers throughout the project, from consultation with authorities, measurement planning, interpretation of weather forecasts up to the final report according to the international standard IEC 61400-11 or the German national guideline “FGW-Richtlinie” [FGW Guideline] and “TA-Lärm” [Technical Instruction, Noise].

According to the requirements of our customers, we adapt our services to local conditions in order to perform even the most difficult projects. High quality, flexibility and the exceptional dedication of our experts make it possible to prepare optimal and efficient solutions in a very short time.
Furthermore, wtg provides support for various special projects, which deal not only with WTs. Normally, our customers want to perform projects where special acoustic expertise is needed.

Basic implementation

Performing a sound measurement crucially depends on the weather conditions at site. To measure the required wind speed range from 6 m/s to 10 m/s, increasing or decreasing wind speeds within a short time period (4 - 6 h) are necessary. Under good conditions, we estimate that we can perform the noise measurement during one day, including installation and dismounting of the measuring equipment. If it is requested to measure additional operating modes, more measurement days might be necessary.

Type Testing + Technical Consulting

Competence

wtg is also a named measuring body according to §29b BImSchG of the German Pollution Protection Act (BundesImmissionsschutzgesetz) for noise measurements according to §26 BImSchG on wind energy converters.

- Accredited according to DIN EN ISO/IEC 17025 for measurement of noise emissions of a wind energy converter and measurement of noise emissions of a wind energy converter and wind farms
- Accredited by the German “Fördergesellschaft Windenergie, FGW” for noise measurements on wind energy converters
- Accredited by the international MEASNET organization
- Named measuring body according to German law §29b BImSchG for noise measurements according to §26 BImSchG on wind energy converters
- Coordinator of the "Noise Expert Group“ of MEASNET

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