Wind Energy

Full Bankable AEP Report

The assessment of long-term wind conditions and the prognosis of the energy yields of the wind turbines are important starting points in wind farm planning. They are carried out by using recognized analytical methods based on the Technical Guideline for Determination of Wind Potential and Energy Yields (TR6) by FGW Germany. TÜV NORD is accredited by DAkkS according to DIN EN ISO/IEC17025:2005.

Available data bases pursuant to the specifications of the TR6 are taken into account; advice on complex requirements and contexts relating to wind farm planning is provided.

Complex sites require complex models. For wind turbine sites in mountainous terrains, the determination of wind potential and expected energy yield is additionally based on three-dimensional, non-linear flow models, so-called CFD models (Computational Fluid Dynamics).

Our full bankable energy yield assessments contain in their conclusion a detailed analysis of probabilities. Immission control requirements such as species protection, shadowing or noise emissions can be taken into consideration regarding the expected energy yield losses.

To minimize expected energy yield losses, TÜV NORD can support you by dedicated environmental analysis, finding the optimal wind farm configuration and turbine operational modes to concurrently optimize the predicted energy yield.

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