TÜVNORD

Passion for Safety

Full Bankable AEP Report

Renewables

The assessment of long-term site-specific wind potential and the prognosis of the annual energy yields of the wind turbines are crucial starting points in wind farm planning. We pride ourselves in utilizing recognized analytical methods based on the Technical Guideline for Determination of Wind Potential and Energy Yields (TG6) by FGW Germany. Based on the bankable annual energy yield report, TÜV NORD provides the German “Standortgütenachweis” (site quality proof). TÜV NORD is accredited by DAkkS according to DIN EN ISO/IEC17025:2018.

We diligently consider available databases in accordance with the specifications of the TG6, ensuring comprehensive and accurate assessments. Our expertise extends beyond mere data analysis as we provide valuable advice on complex requirements related to wind farm planning.

When dealing with complex sites, we recognize the need for sophisticated models. For wind turbine sites situated in mountainous terrains, we employ three-dimensional, non-linear flow models known as CFD models (Computational Fluid Dynamics) to determine wind potential and expected annual energy yield.

Our comprehensive bankable energy yield assessments encompass a detailed analysis of uncertainties. Moreover, we take into consideration curtailments/permit-related limitations such as species protection, wind sector management, shadowing, and noise emissions, all of which can impact the expected energy yield losses.

To mitigate any anticipated energy yield losses, TÜV NORD offers to identify the optimal wind farm configuration and turbine operational modes. By optimizing these factors, we simultaneously maximize the predicted energy yield.

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