

AXISCADES

Wind Assessment and Siting

30+

Years of
Engineering
Excellence

Wind Energy is one of the leading renewable industry where manufacturers are innovating and pushing their capacities to cater to the increasing demand for more powerful and efficient turbines. With extensive research on siting of turbines in challenging conditions, our domain experts join hands with OEMs to build on ideas and expertise to break the barriers for innovation. We at AXISCADES offer a complete package of domain expertise right from the concept development stage, analysis, testing, manufacturing and validation. A reliable team of highly trained professionals, who work efficiently to ensure your investments return high value at minimal risk, with future proofing, is our indispensable asset.

Wind Resource Assessment is the most important step in planning a community wind project, because it is the basis for determining initial feasibility and cash flow projections, which ultimately is vital for the total success of the project. Accurate wind resource assessments are crucial to the successful development of wind farms. We follow a tailor made approach of Wind Recourse Assessment, customized to support each wind power developer differently, according to their needs in estimating the future energy production of their wind farm.



PRODUCT DESIGN AND DEFINITION

Concept & Detailed Design & Drafting
GD&T & Stack up Studies
Tolerance Analysis
Configuration & Assembly
Electrical CAD

ENGINEERING ANALYSIS AND OPTIMIZATION

Structural Analysis - Static, Modal & Thermal
Dynamic & Transient Analysis - Acoustics & NVH
Fatigue & Damage Tolerance
Topology & Topography Optimization
Aerodynamics & Aero-elasticity studies

WIND RESOURCE ASSESSMENT AND SITING

Analysis of Quality of Wind Data
Turbine Layout Optimization
Noise & Shadow Flickering Calculation
Preliminary Wind Data Validation
Wind Farm Layout Optimization
Annual Energy output & Site Analysis

MECHANICAL AND ELECTRICAL SYSTEMS HARNES & ROUTING

Harness Installation
System Integration
Mechanical /
Electrical Routings
Hydraulics

MANUFACTURING ENGINEERING SERVICES

Virtual / Digital Manufacturing
Process Planning & Simulations
Tool Design
Should Cost Modelling

TECHNICAL PUBLICATIONS

Manuals
(Maintenance, Service, Operator,
Installation & Setup Guides)
AMM, IPC, CMM, IPL, etc.
Interactive Manuals & Training Material

Our team helps you progress your project through several stages of a customized assessment process that involves:

- Initial Assessment
- Detailed site characterization
- Long-term validation of data

With significant expertise across geographies we provide value addition through the analysis of quality of wind data, turbine layout optimization, annual energy estimation for the designed layout and an overall optimization of the wind farm layout including structural analysis and value engineering.

Certifications : ISO 9001:2015 | AS 9100D | ISO/IEC 27001:2013

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