

Technical Due Diligence

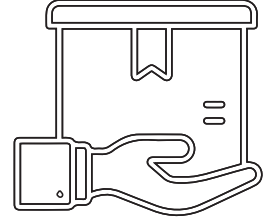
by Bladena

Customer Benefit

Confidence in Procurement: WTOs can be assured that blades meet technical expectations and are backed by rigorous testing and certifications.

Thorough Insight: Acquire a complete understanding of your blade's design and operational practices, uncovering potential areas of improvement as well as limitations in certification and testing methodologies.

Confidence in Operation: With a thoroughly assessed blade design and operational strategy, WTOs can be more assured in their investment and operational decisions.



What it offers



Structural Evaluation: Dive deep into the blade's structural integrity, utilizing our state-of-the-art understanding of blade structure. Identifying limitations in certification and testing methodologies, we help WTOs understand and manage risks better.



Full-Scale and Sub-component Testing Evaluation: Complete analysis of the entire testing program, ensuring if tests mimic the real-world conditions. Recommendations to ensure testing fully captures potential structural design weaknesses.

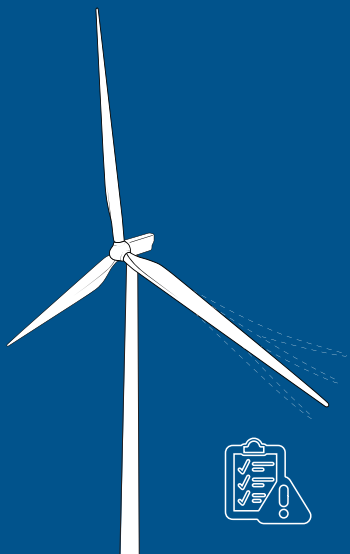
Certification and Implications: Review of certifications specifically targeted at structural integrity and testing process (especially Full-Scale and Sub-component Testing).

Recommendations & Improvements: Suggestions on areas of improvement for testing methodologies. Recommendations for supplemental tests.

Lightning Assessment: Understand the effectiveness of the blade's lightning protection system and potential improvements.

Leading Edge Erosion: Evaluate potential risks and solutions related to leading edge erosion.

Operation & Maintenance Review: Assess operational practices and maintenance schedules to ensure they align with best practices.



Bladena's Technical Due Diligence service is an assessment of a wind turbine blade design. For Wind Turbine Owners (WTOs), choosing the right blades during procurement is crucial. This advisory service focuses on the technical details, placing a strong emphasis on the full-scale testing methodologies and certification also highlighting the lapses in certification and testing. While blade certifications are essential, they often only meet the bare minimum. Established OEMs test more rigorously than the minimum and have the chance to separate themselves from the competitors. This service also aims to present this difference, guiding WTOs towards the best procurement decisions. The service ensures that WTOs are equipped with the knowledge, potential risks and insights needed to make well-informed, strategic decisions.

