

Strategic Blade Risk Profiling

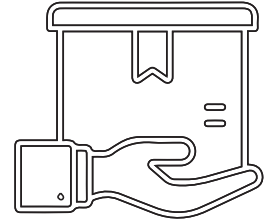
by Bladena

Customer Benefit

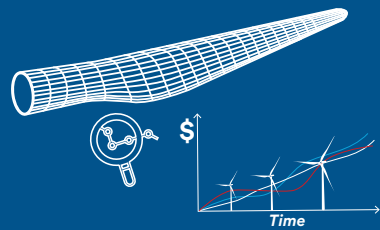
Cost Savings: Proactive strategies lead to significant maintenance savings.

Blade Longevity: Implement our strategies for a longer blade life.

Decisions: Our detailed risk profiles enable sharper operational choices.



What it offers



Blade Selection and Review:

- **Identification:** Using our vast database, we pinpoint at-risk blades in your fleet.
- **Design Insights:** Deep dive into your blades' design principles.
- **Hotspots & Failures:** We highlight vulnerable regions and common failures.
- **Hotspot Assessment:** Hotspots are assessed by comparing certification loads with operational loads, and any disparity is translated into a measure of risk.

Risk Profiling:

- **Categorization:** Parameters to classify damages and their risks.
- **Load Regions:** Differentiating primary from secondary load areas.
- **Criticality:** A qualitative and/ or quantitative analysis of identified hotspots.

Monitoring and Maintenance Guidance:

- **Inspection Guidelines:** Tailored methods targeting identified hotspots.
- **Mitigation:** Strategies to reduce damage initiation and progression.

This advisory service takes a strategic approach to enhance wind turbine blade performance. We identify vulnerable blades and offer guidance for smarter decisions, which ultimately reduce costs, increase Annual Energy Production (AEP), and boost blade reliability.

Wind turbine blades vary in design and face unique operating conditions. A one-size-fits-all strategy can lead to excessive costs and risks. The Strategic Blade Risk Profiling emphasizes the importance of tailored solutions, ensuring that operators make cost-effective choices suited to their specific needs.

