

# Technical due diligence

## Confidence in procurement

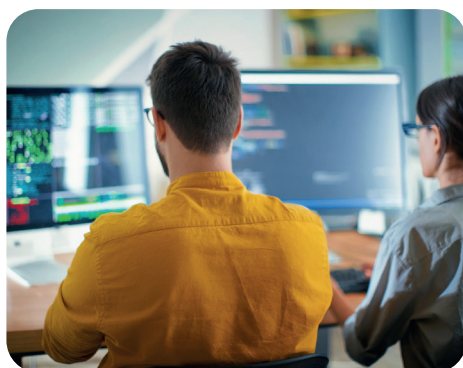
Assurance that blades meet technical expectations and are backed by rigorous testing and certifications.

## Thorough insight

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

## Confidence in operation

With a thoroughly assessed blade design and operational strategy, our customers can be more assured in their investment and operational decisions.



We offer a detailed, independent assessment of wind turbine blade designs. Choosing the right blades during procurement is critical. This service focuses on technical rigour, examining full-scale testing methods and certification schemes, and highlighting where these may fall short. While certification is important, it often only meets minimum standards. Established OEMs frequently go beyond this baseline — our analysis identifies these differences, enabling better-informed procurement choices. By combining in-house structural expertise with one of the industry's most extensive global blade damage databases, we help customers identify unseen risks, benchmark designs, and ultimately make strategic decisions with confidence.

## What we offer

### Structural evaluation

A deep dive into the blade's structural integrity, highlighting risks not visible through certification alone. Our insights are enhanced by comparative analysis with global blade damage data.

### Full-scale and sub-component testing evaluation

We assess whether testing programmes truly replicate real-world loading conditions, with recommendations to strengthen test coverage and reliability.

### Certification and implications

Review of certifications specifically targeted at structural integrity and testing process (especially full-scale and sub-component testing).

### Recommendations and 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.