



# Wind turbine blade spacing monitoring





## Overview

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This article outlines six key tips for implementing wind turbine blade monitoring, based on proven approaches in modern wind energy operations. This is where Turbit takes the lead with its data-driven monitoring approach: By integrating additional sensor data, including Weidmüller's BladeControl, a comprehensive monitoring system is being established. BladeSave aims to increase the average annual availability of wind turbines from 95% to 98-99% by optimising maintenance to. Wind turbine blades (WTBs) have increased in size and complexity, resulting in higher operational demands and maintenance costs. By detecting blade defects early, operators can extend turbine blade lifespan, maintain peak energy output, and avoid costly unplanned downtime. Yet, promptly identifying faults and damage remains a significant challenge, leading to costly maintenance and consumption of resources. Rotor blade pitch misalignment constitutes an.



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### [BladeSave: Innovative New Wind Turbine Blade Monitoring](#)

BladeSave is a fusion of structural health monitoring with a blade management software to link the data and provide a comprehensive solution for wind turbine management.

### [Monitoring the blades of a wind turbine by using videogrammetry](#)

Based on advanced videogrammetry, this study proposes a series of techniques to detect structural defects in the blades of turbines during their normal operation.



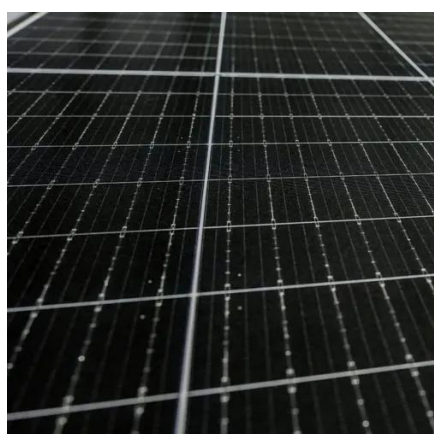
### [Optimal Design and Operational Monitoring of Wind Turbine Blades](#)

The wind turbine blade is a critical component of any wind energy system. Its design, testing, and performance monitoring play a key role in power generation. With the increased use of composites

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### [A machine-learning-based approach for active monitoring of blade ...](#)

Rotor blade pitch misalignment constitutes an essential issue, causing downtime and reduced energy production. Traditional inspection methods are resource-intensive, time-consuming, ...



### [6 Key tips , Implementing Wind Turbine Blade Monitoring](#)

This article covers 6 best practices for implementing wind turbine blade monitoring, based on proven approaches in modern wind energy operations.

### **Intermediate-Scale Fatigue Testing and Structural Health Monitoring ...**

Combining intermediate scale-blade testing, as presented in this study, with efficient sensing and continuous monitoring systems provides information that enhances blade reliability ...



### **Wind Turbine Blade Monitoring**

With Turbit's Blade Monitoring, we can identify primary damages in turbine blades that often lead to severe secondary damage in the drivetrain. By addressing these issues early, we ...

### **Overview of RF-based structural health monitoring of wind turbine blades**



Radio frequency (RF) and microwave radar technologies offer an effective non-contact and weather-resistant method for assessing wind turbine blade deflection.



### [A State-of-the-Art Review of Structural Health Monitoring](#)

SHM techniques are essential for the effective assessment and maintenance of WTBs. Exposed to harsh conditions such as high winds and temperature fluctuations, continuous monitoring ...

### [Design of a Blade Clearance Monitoring System for Wind Turbine](#)

This paper designs a millimeter-wave radar-based wind turbine blade headroom monitoring system, which uses millimeter-wave radar to monitor the headroom value a





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