

# OPTIMIZED ASSET MANAGEMENT STRATEGY

OUR PREVENTATIVE MAINTENANCE STRATEGIES REDUCE OPERATIONAL EXPENDITURES (OPEX)



## OVERVIEW

Most operations and maintenance (O&M) strategies in the wind turbine industry are based on undocumented decision making, which in most cases is far too conservative. The scope of work for servicing is typically based on un-questioned, poorly defined or outdated risk assessments. Optimization of services involves a critical look at current maintenance practices and potential system re-designs.

The key to implementing a successful maintenance strategy is therefore twofold. First, owners and operators (O&O) must decide to invest in putting a plan in place. Second, O&O must rely on those who have a deep understanding of wind economics and engineering with proven track records that can complete end-to-end workstreams.

## BUSINESS CHALLENGE

**Reducing OPEX** - Customer needed assistance in understanding the maintenance requirements and how to implement a plan to reduce operational expenditures for their 2MW class turbines.

**O&M Scope Creation** - Customer needed to update risk assessment activities and identify potential system re-designs.

## THE CREADIS SOLUTION

CREADIS delivered an effective preventative maintenance strategy based on predefined risks and maintenance requirements that were evaluated via **Failure Mode Effect and Criticality Analysis (FMECA)**. A risk matrix and decision log was developed to define maintenance processes and ultimately extend the customer's 2MW turbine life expectancy.

In addition, having maintenance procedures performed accurately and in the right intervals, increased the average time between service visits from every **6 months** to every **12 months**. This also reduced downtime, reduced OPEX, and increased overall asset performance.

*- CREADIS can manage the entire process of a service optimization project. Allowing the customer to make sound cost versus risk decisions and both defining and implementing their maintenance strategy, without compromising the safety of the personnel or the WTG.*

