# **How to Improve Wind Turbine Operations: Predictive Maintenance**





"In wind turbine operations, reducing repair costs delivers higher savings than reducing downtime; however, both are important."

### **KEY BENEFITS OF PREVENTATIVE O&M** STRATEGY VIA CONDITION MONITORING

Proactive monitoring of turbine components identifies atypical part operation before failure occurs



when turbine part requires repair



### **REPAIR COST DE-ESCALATION** IN ACTION

Here's what a real-life wind farm condition monitoring solution looks like:







1. Detect vibration

#### 2. Condition monitoring system triggers alarm to alert analvst

#### 3. Technicians resolve issue before it escalates into major problem

### **RUN-TO-FAILURE VS. CONDITION MONITORING**

increase on a

component

Proactively deescalating maintenance costs is key to successful and sustainable wind operations



costs associated with replacement parts and use of cranes



## ACHIEVE TOTAL ASSET PROTECTION

A comprehensive condition monitoring solution -trusted hardware, software and service expertise effectively de-escalates maintenance costs



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