How to Improve Wind Turbine Operations: Predictive Maintenance

Increase availability and control costs via condition monitoring

WIND POWER BY THE NUMBERS

340,000+
Wind turbines operating globally

$101.5 B
Invested to-date in Wind Capacity globally

In U.S. wind comprises 20% of total power
(and the largest source of renewable generating capacity in country)

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

KEY BENEFITS OF PREVENTATIVE O&M STRATEGY VIA CONDITION MONITORING

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

IDENTIFIES when turbine part requires repair

AVOIDS down-tower component replacements

REDUCES costs associated with replacement parts and use of cranes

REPAIR COST DE-ESCALATION IN ACTION

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

1. Detect vibration increase on a component
2. Condition monitoring system triggers alarm to alert analyst
3. Technicians resolve issue before it escalates into major problem

ACHIEVE TOTAL ASSET PROTECTION

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

CONTACT BENTLY NEVADA TO LEARN MORE | WWW.BENTLY.COM/WIND