



ACTIVECHARGE



PERMANENTLY REDUCE BLADE MONITORING COST, ENHANCE PROFITABILITY, AND DETECT CATASTROPHIC FAILURE INDICATORS

Self-powered, integrated sensor-and-data-transmitter solution to continually monitor anywhere in wind turbine blades.



Provides near-real-time data and prescriptive actions that can be integrated with turbine controller.



Eliminates the need for battery replacement and costly turbine shutdowns, increasing owner profits.



Can be installed during blade construction or as a retrofit during next scheduled repair.



Works with all 1MW+ wind turbines.

QUICK FACTS:

- Permanently reduce blade monitoring expense
- Increase profitability & reliability
- Reduce catastrophic blade failures
- Self-powered, non-intrusive design
- Solution-as-a-Service (SaaS): we do it for you!
- Integrated with O&M software system

AVAILABLE AS SOLUTION-AS-A-SERVICE (SAAS):

We will install, maintain, and upgrade the system + provide prescriptive actions to the turbine controller for a fixed fee.



KEY TECHNICAL ADVANTAGES

Patent Pending

Tested, non-contact (magnetic excitation) design:
20+ year expected life

Installed Inside the Blade

Negligible mass compared to blade = no interference with operation or aerodynamics. No wires along inside the body of the blade, eliminating a path for lightning to travel from blades to turbine structure, significantly reducing catastrophic failure probability

Integrated, Intelligent Design

Fully compatible with leading wind energy portfolio management software dashboards: no learning/adaption cost or curve

Easy Installation

Can be installed during turbine fabrication or as a retrofit, including turbine controller integration

MANUFACTURER BENEFITS

- Gain competitive edge in the marketplace by offering wind turbines that cost less to operate and maintain over lifetime, and will likely have lower catastrophic failures
- Enhanced turbine and portfolio operational data availability: can be leveraged to develop better products
- Ability to monitor wind turbine blades that cannot be monitored well with current methods

PORTFOLIO OWNER BENEFITS

- Available as Solution-as-a-Service (SaaS)
- Permanently reduce downtime and cost of replacing sensor batteries every three-five years. Payback period less than three years; expected life of 20+ years
- Fewer shutdowns: higher production
- Frequent and reliable near-real-time data helps detect structural failure symptoms to prevent catastrophic failures: lower insurance cost