

# SMARTENERGY

THE LEADING INDUSTRY  
PARTNERSHIP FOR  
WIND TURBINE  
MONITORING TO **SAVE**  
**TIME AND MONEY**

## PROBLEM

The **life span** of these machines, along with the **availability of service issues** and **high maintenance costs** all contribute to the problems faced by owners/operators of wind farms.





## SOLUTION

By using an array of sensors streaming information to software coupled with Cloud-Based Artificial Intelligence and sophisticated engineering reports allows for **optimal availability of service** and **predictive maintenance** thus **reducing costs, extending lifetime**, and ultimately **improving ROI**.



Our **SMARTENERGY** solution **minimizes downtime** and **maximizes productivity**





MONITOR, ANALYZE  
AND MANAGE ALL  
SENSOR DATA



MAKE DECISIONS  
BASED ON CLEAR  
INSIGHTS



PROTECT ASSETS  
AND AVOID  
COSTLY DISASTERS



## SMARTENERGY — A WINNER

- **EASY** installation during or after the manufacture of any wind turbine.
- **CONVENIENT** mobile-friendly visibility through the secure dashboard to monitor and respond to wind turbine sensor data.
- **INTEGRATED** solutions connecting accelerometers, tiltmeters, GPS, strain gauges, fiber-optic and vibrating wire sensors with the state-of-the-art **SMARTENERGY** software.
- **AFFORDABLE** detection of bolts and welds for early structural degradation to protect assets and limit the risk and effects of disasters.
- **RELIABLE** watchdog continuously monitoring the entire technical platform to ensure 99% system uptime.



# Maximize Availability for Service Extend Lifetime of Your Asset

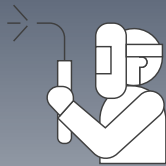
01



**BOLTS  
COME LOOSE**

**WE'VE GOT YOU  
COVERED**

02



**WELDS  
CRACK**

**YOU'LL KNOW  
IMMEDIATELY**

03



**UNBALANCED  
GENERATOR**

**WE SENSE IT**

04



**STRUCTURAL  
FATIGUE**

**WE'RE ON TOP OF  
THAT FOR YOU**

Drift 1.1 cm  
Peak acc  
0.12 %g

Drift 1.5 cm  
Peak acc  
0.2 %g

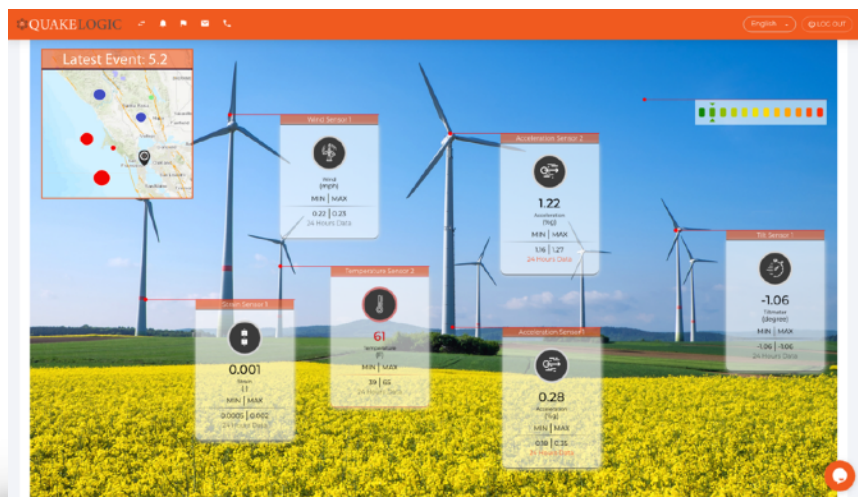
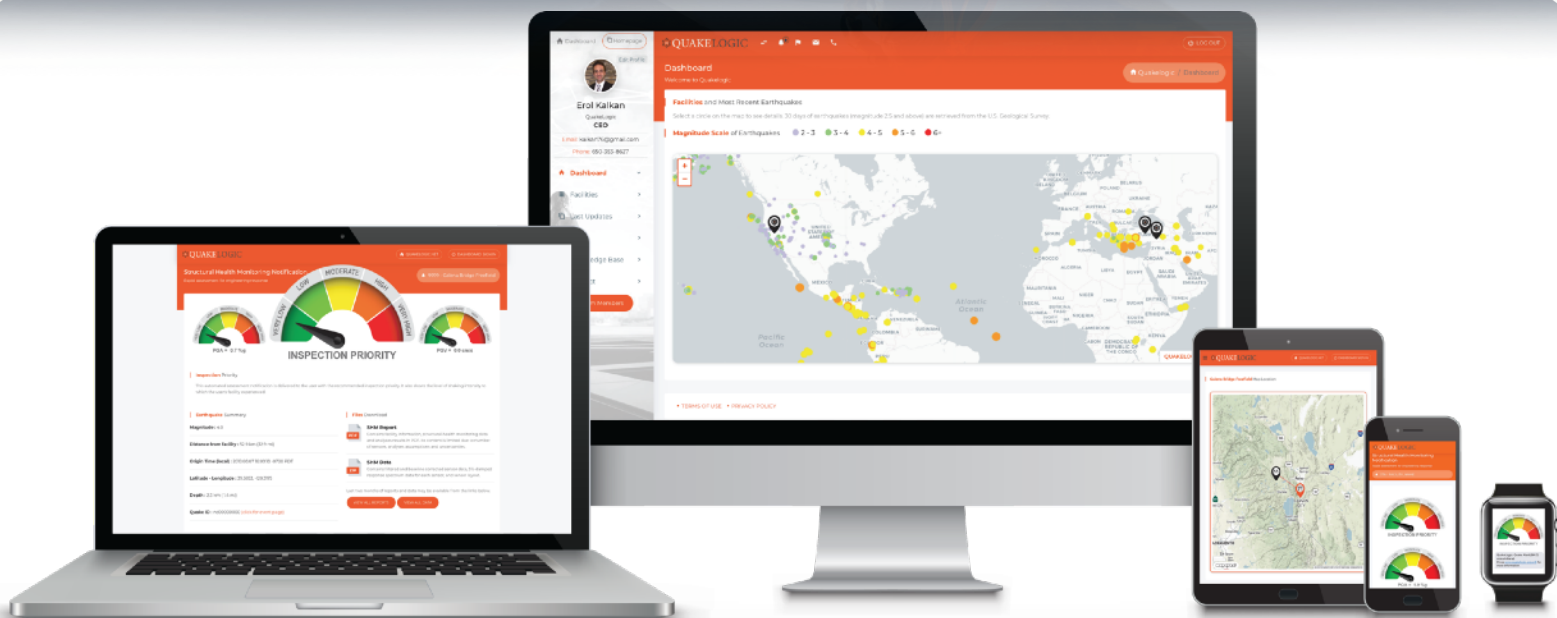
Drift 1.0 cm  
Peak acc  
0.10 %g

PGA  
0.02 %g





# NOW YOU CAN MONITOR HEALTH OF YOUR ASSET FROM YOUR DESK, **WITH NO HARDHAT REQUIRED**





# SMART MONITORING OF WIND FARMS

## — MADE SEAMLESS



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