

CHALLENGES FACING Renewables Industry

Unplanned outages, unusable data, and shrinking O&M budgets can create a perfect storm of lost revenue...

UNPLANNED MAINTENANCE
 Firefighting v.s. prioritization
 Lots of data, not much insight

SHRINKING O&M BUDGETS
 O&M Productivity
 Workforce Dynamics

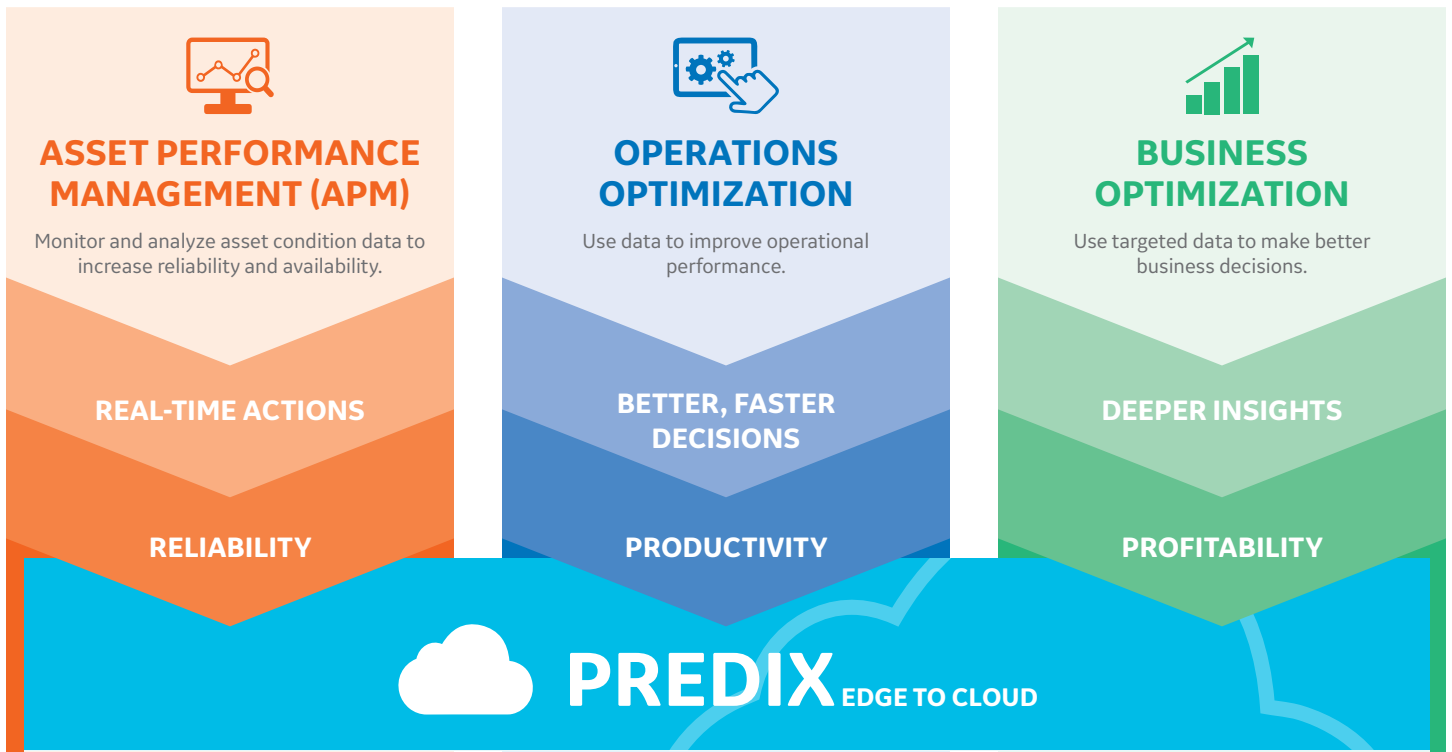
MISSED/LOST REVENUE
 Imbalance penalties
 Suboptimal trading

... but with **GE's Digital Wind Farm solution**, you can take charge of your future!

OUR SOLUTION: DIGITAL WIND FARM

Hardware + GE Software = Improved Wind Farm Economics

Connect your assets, technology, and data to generate deep business insights that deliver outcomes specific to your needs.



Our Digital Wind Farm apps are empowering
261 wind farms
 for 70 CUSTOMERS

Sensor data and analytics to gain greater reliability, flexibility and productivity.

13,500+
Assets Monitored

\$36MM
Annual O&M savings and reduced downtime

2000+
Anomalies Resolved Yearly

150+
Physics-based and Statistical Software Analytics

WE ALREADY DO IT...

20 GW
of wind power connected to our **Predix operating system**

Optimize the performance and efficiency of your people and machines to drive outcomes.

10,502
Turbines Optimized

62/261
Customers/Wind Farms Around the World

1.3/\$75MM
Estimated TWh and value (USD) of additional generation

75
Sites Using DPOD

13,500
monitored turbines
use our analytics to drive

Leverage machine sensor data, sophisticated analytics and software to gain greater reliability, flexibility and productivity to serve customers and markets.

6% better forecast =
\$126K
per farm/year lower imbalance penalties

2-3% AEP across **1.5 GW** GE/non-GE fleet

WEEK-AHEAD FORECASTING
better O&M planning

DAY-AHEAD FORECASTING
Manage Grid Expectations

64%
Power leaders believe their security strategy not aligned with today's risk environment ⁽¹⁾

CYBER SECURITY
Reduce Enterprise Risk.
Protect customer assets and brand.

> 90%
Power leaders say growth only achieved through enhanced management of risk with strategic adoption of technology

31%
Power leaders named security as one of the top concerns in the use of data and analytics ⁽²⁾

GET CONTROL, VISIBILITY, INNOVATION, AND OUTCOMES WITH **GE'S DIGITAL WIND FARM TECHNOLOGY.**

Learn more at GERenewableEnergy.com/Digital-Solutions



1. Source: Ernst & Young
 2. Source: Industrial Internet Report for 2015, GE and Accenture