Turning Fleet Knowledge into Action

GE’s Monitoring & Diagnostics Center in Atlanta remotely monitors critical operations data at sites around the world.

One of the largest monitored fleets of gas turbines in the world
Every day GE collects over 30,000 operating hours of data from 1,500 gas turbines deployed at 502 sites in 58 countries.

Predictive Insight
What is the equipment doing? Unusual noises, excessive vibrations, high temperatures? 100+ physical sensors and 300 virtual sensors per gas turbine help foresee and forestall issues before they occur.

Algorithmic Analysis
90% of cases resolved by GE M&D engineers. GE’s M&D teams have developed hundreds of physics-based proprietary algorithms that provide early warning of more than 60 different failure mechanisms.

Accelerated Productivity
Knowing the issue and fixing it before it becomes a problem. Getting your equipment up and running in as little or no down time as possible.

Customer Sites
In 2014:
- 12,000,000 hours of operational data collected a year
- 35,000 operational alarms analyzed
- 132 system failures avoided
- $70,000,000 in customer savings

Saving customer equipment, time, and money

Other OEMs
Industry-wide Applicability
GE’s device-agnostic predictive capabilities monitor over 40 different technologies and equipment from major OEMs, including Siemens, Rolls Royce, Alstom, Flowserve, Waukesha, and Byron Jackson.

Increased M&D customer saves in 1 year by nearly 25%

2013
- 3,087 customer assists ($70M saved)

2014
- 2,369 customer assists ($53.9M saved)

24/7/365
GE’s continually growing worldwide experience base—combined with innovative statistical methods—increases the probability of detection while reducing false alarms.

Generating solutions with customers 24x7 to save time, money, and equipment.