Customers Speak

Proven Technology

Listen to the experts, including a large coal power producer, discuss the benefits of digital and optimization to lower heat rates and improve emissions.

2016 Cumulative Results

* How Operations Optimization Works for Boilers

The boiler optimization component of Operations Optimization uses multiple model-based triggers to create real-time alerts to impending excursions, imbalances, and other adverse conditions. The solution employs a combination of expert rules, empirical models and thermodynamic calculations with outcome optimizing controls to achieve improved boiler performance.

Challenge: OMU needed to reduce emissions and improve flexibility.

Solution: Early adopter of Operations Optimization.

Results:

- Reduced emissions with NOx benefits of 10–17%, improved heat rate by 0.5% and significantly reduced outages related to issues like tube ruptures.*
- "GE Boiler Optimization Solution can anticipate, predict and evaluate which makes it a very powerful tool for the operators to utilize."
  - John Allen, Operations Manager
  - Owensboro Municipal Utilities, Owensboro Kentucky

Real World Results

Fleet Load Optimized:

- 1 MM GWhrs
- NOx Savings: 6.7 K tons
- CO2 Savings: 1 MM tons

2016 Cumulative Results*

- Total Calculated Benefits: $151 MM
- Total Availability, Fuel, & NOx Benefits: ($103 MM + $48 MM)

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John Allen, Operations Manager
Owensboro Municipal Utilities, Owensboro Kentucky

WEBINAR

The New Era of Digital for Coal-Fired Plants

Listen to the experts, including a large coal power producer, discuss the benefits of digital and optimization to lower heat rates and improve emissions.

Want to learn more?

Read our executive brief “Achieving Better Coal Plant Efficiency and Emissions Control with Digital”