

# Operations Performance Management for Coal-Fired Power Plants



The need to minimize costs, maximize availability and enhance operational flexibility is more important than ever. GE Operations Performance Management is a powerful digital solution that improves plant productivity by pushing the operations envelope to be more flexible and available when markets demand it while minimizing emissions, outages and maintenance costs.

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## Proven Results for Boiler Optimization – a Function of Operations Performance Management

### Proven Technology

Over **150** installations at coal plants

Proven over **17** years of operation

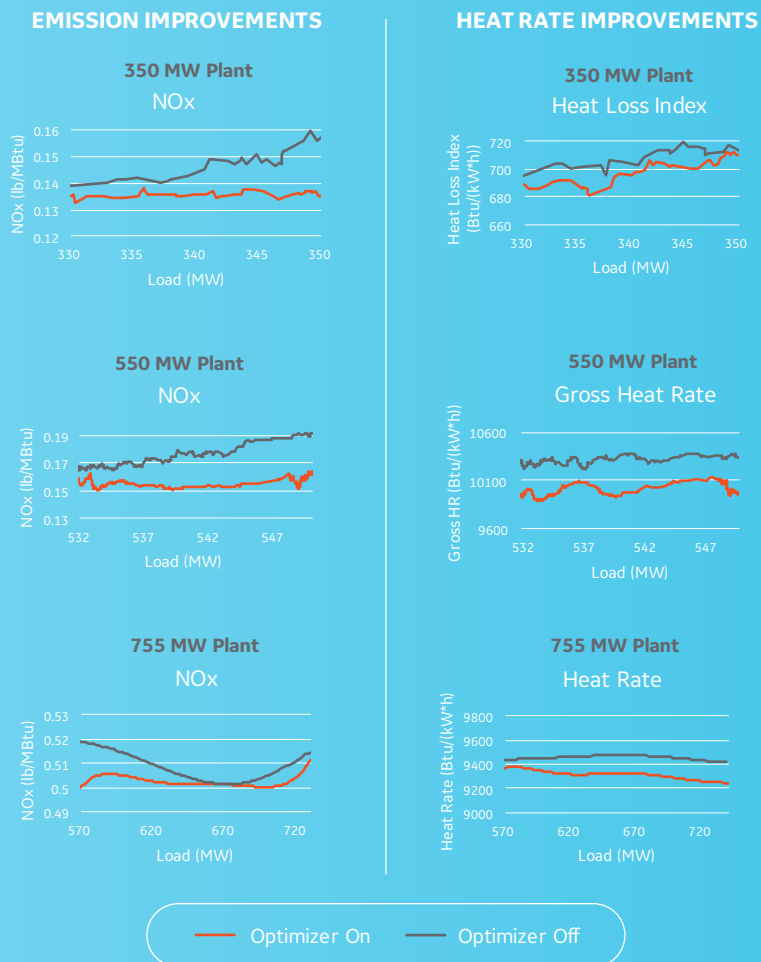
**49%** Wall-Fired & **43%** T-Fired boilers

From **50 MW** to **1 GW** plants

Total **20 GW** capacity under management

### Real World Results

Data derived from plants monitored by GE's M&D Center



### 2016 Cumulative Results\*

Based on 150 units, average 400 MW output

Total Calculated Benefits: **\$151 MM**

Total Availability, Fuel, & NOx Benefits: **(\$103 MM + \$48 MM)**

Potential GHG Benefits:

Fleet Load Optimized: **1 MM GWhrs**

NOx Savings: **6.7 K tons**

CO2 Savings: **1 MM tons**

\*Representative customer outcomes are not guarantees of results.

### Customers Speak



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**Challenge:** OMU needed to reduce emissions and improve flexibility.

**Solution:** Early adopter of Operations Performance Management.

**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

### WEBINAR

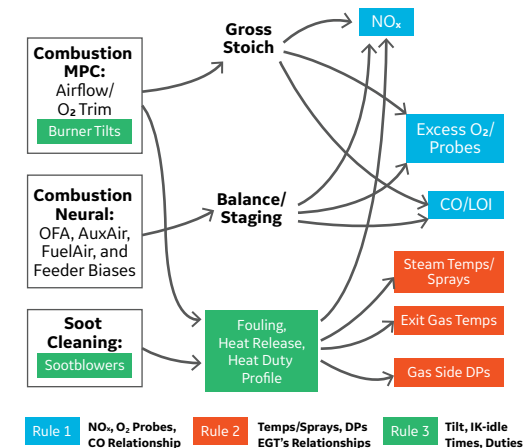
## The New Era of Digital for Coal-Fired Plants

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

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### How Operations Optimization Works for Boilers

The boiler optimization component of Operations Performance Management 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 out-come optimizing controls to achieve improved boiler performance.



### Want to learn more?

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

[DOWNLOAD NOW](#)