

Operations Optimization for Coal-Fired Power Plants



The need to minimize costs, maximize availability and enhance operational flexibility is more important than ever. GE Operations Optimization 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 Optimization

Proven Technology

Over **150** installations at coal plants

Proven over **17** years of operation

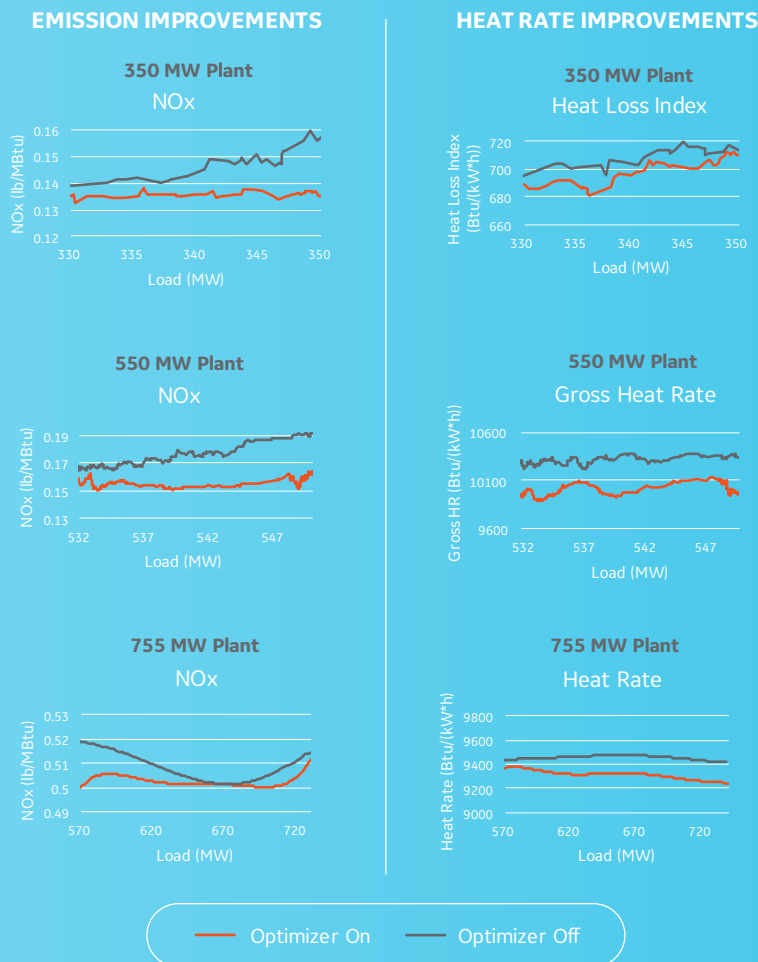
49% Wall-Fired & **43%** T-Fired boilers

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)**

Fleet Load Optimized: **1 MM GWhrs**

NOx Savings: **6.7 K tons**

CO2 Savings: **1 MM tons**

Customers Speak



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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

WEBINAR

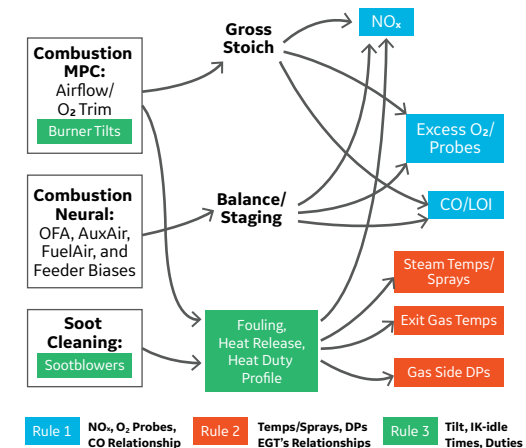
The New Era of Digital for Coal-Fired Plants

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

[VIEW WEBINAR](#)

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.



Want to learn more?

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

[DOWNLOAD NOW](#)

*Representative customer outcomes are not guarantees of results.