



Smart Boiler from GE Digital

Comprehensive monitoring and maintenance for reliable, efficient boiler operations

Transform your boiler into a Smart Boiler with the Boiler Reasoner Pack

Are your boilers operating at peak performance? For many organizations, boilers are one of the largest consumers of natural gas. To help ensure maximum reliability and efficiency, you need comprehensive monitoring and maintenance.

The Smart Boiler Reasoner Pack from GE Digital, built on our [Mobile](#) platform, provides sophisticated analytics to detect faults, improve efficiency, and prevent maintenance problems in boiler system components and controls. With Smart Boiler, you don't have to guess what is wrong with your equipment. Let your assets tell you what they need!

Outcomes

- Decrease boiler energy and maintenance costs up to 25% with comprehensive monitoring and predictive analytics
- Improve uptime and comfort
- Increase operational efficiency with faster resolution
- Enhance decision making and collaboration with Notes, KPIs and Tasks – for the right actions
- Lower fuel consumption with greater efficiency
- Helps ensure no loss of performance
- Speed maintenance, where and when you need it
- Know the corrective action to take without having to guess
- Detect and predict based on your equipment type, regardless of equipment manufacturer/vendor

01 Improve efficiency with analytics

Driving Asset Performance Management (APM), the Smart Boiler analytics continuously monitor operating parameters to recognize patterns, identify issues, and determine their causes. Additionally, the Boiler Reasoner Pack recommends the right corrective actions to optimize efficiency and increase performance. The system analyzes your energy costs and alerts you to non-optimal performance.

02 Access KPIs, anytime anywhere

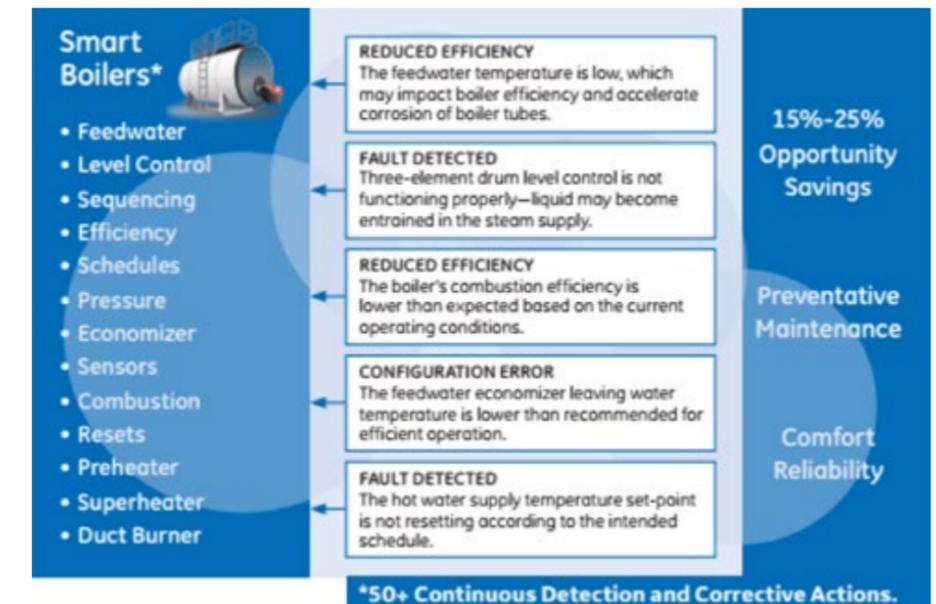
Always have critical boiler information at your fingertips with Key Performance Indicators (KPIs) and analytic results available anytime, anywhere you are. Not only are you armed with the right performance and status information, you also have system interaction data and can trend this information on demand collaborate on the solution.

03 Resolve issues quickly

Aggregated asset and fleet health displays intelligently alert you to a current condition or predictive issue, drawing your attention to the most critical information. With advanced notifications and condition-based actions, your operators can take the right actions on state, probable cause and alarm severity, automatically prioritized to indicate processes or equipment in trouble.

04 Connect your data

The Boiler Reasoner Pack can connect and gather data from thousands of equipment types, supporting 200+ protocols. It detects and predicts issues based on the equipment type, regardless of equipment manufacturer/vendor. The diagnostics and advanced analytics cover hot water, low and high pressure steam boilers, and industrial process boiler systems across your facilities.



Smart Boiler enables you to drive greater reliability and efficiency for peak performance of your boiler operations.

Wasted energy increases over time unless you take action. Don't wait for recommissioning or retrocommissioning. Achieve "continuous commissioning" with automated monitoring and predictive analytics, reducing costs and maintenance.



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Features

- Smart monitoring and analysis of boiler system components and controls
- Analytics identify probable causes and recommend corrective action
- No hardware or maintenance costs
- Decision support when you need it—on artphones and tablets
- Advanced Fault Detection and Diagnostics to watch your entire systems and internal interactions in areas such as:
 - Process: Switching and staging, schedules vs. runtimes, pre- and post-purge cycles, firing and standby cycle duration, blow down cycles
 - Control: Equipment operations, combustion, water & de-aerator water level, temperature/pressure
 - Energy: Sensors, make-up water leak detection, condensate return, mass conservation, cogeneration analysis, system efficiency verification

Software Requirements

- Application Server
 - Microsoft® Windows® Server 2008 R2 (64-bit), Server 2012 R2, Server 2012 (64-bit)
 - Microsoft® SQL Server® 2008 R2 SP2 Standard Edition, 2012 Standard Edition
- Clients
 - Microsoft Internet Explorer 11.0
- App
 - Available on iOS, Android™ and PC

Hardware and software requirements are representative and may vary by customer deployment. Please consult the product documentation for more details.



Smart Boiler with the Boiler Reasoner Pack helps you detect and predict issues based on the equipment type.

Find out how Smart Boiler can help you drive reliable, efficient boiler operations.

LEARN MORE





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Services

In the world of the Industrial Internet of Things (IIoT), organizations are able to optimize productivity, reduce costs, and achieve operational excellence. While this is an exciting time for opportunity and growth, it can also bring on new challenges, questions, and uncertainty. No matter where you are on your IIoT journey, GE Digital and its experienced global partners have the right services offering for you.

[Advisory Services](#) We can help you plan and start your IIoT journey with fourth generation HMI/SCADA in a way that aligns to your specific business outcomes.

[Managed Services](#) We can completely maintain your critical machines from one of our remote locations around the world using model-based predictive-analytic technology..

[Implementation Services](#) Our experienced global Automation partners can implement a collaborative, multi-generational program that marries your existing investments to the right enhancements and technology.

[Education Services](#) We specialize in education services to ensure that you're leveraging our solutions to the fullest extent with our training and certificate programs.

[GlobalCare Support Services](#) Let us help by ensuring that your business continues to operate at its highest efficiency, all while mitigating risks to your investments.

[Wurldtech Security Services](#) Our solutions provide industrial-grade security for a wide range of OT network and application topologies.

Take charge of operations with decision support HMI/SCADA

First, leverage HMI/SCADA as the foundation for an efficient operation. Then, drive the right response on the alarms that matter. Finally, increase consistency and conformance to standards, improving accountability on task completion and preventing mistakes.

Related Products



[HMI and SCADA](#)

Take your operations to the next level with GE Digital's proven HMI and SCADA solutions, powered by the Industrial Internet.



[Mobile](#)

Take industrial automation to a new level with GE Digital's Mobile Apps, transforming operational data into actionable information, accessible anywhere, anytime.

Continue your IIoT journey

Transforming your business requires foundational innovations that lay the groundwork for future success. It requires connecting assets and processes securely to drive operational efficiencies, reduce unplanned downtime and improve performance.



[Workflow](#)

GE Digital's Workflow helps you prevent mistakes, reduce response times, and optimize processes for greater productivity, less risk, and higher quality.



[Historian](#)

Get Predix IIoT connectivity and data management with Historian, which optimizes asset and plant performance through time series industrial data collection and aggregation.

About GE

GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry.

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