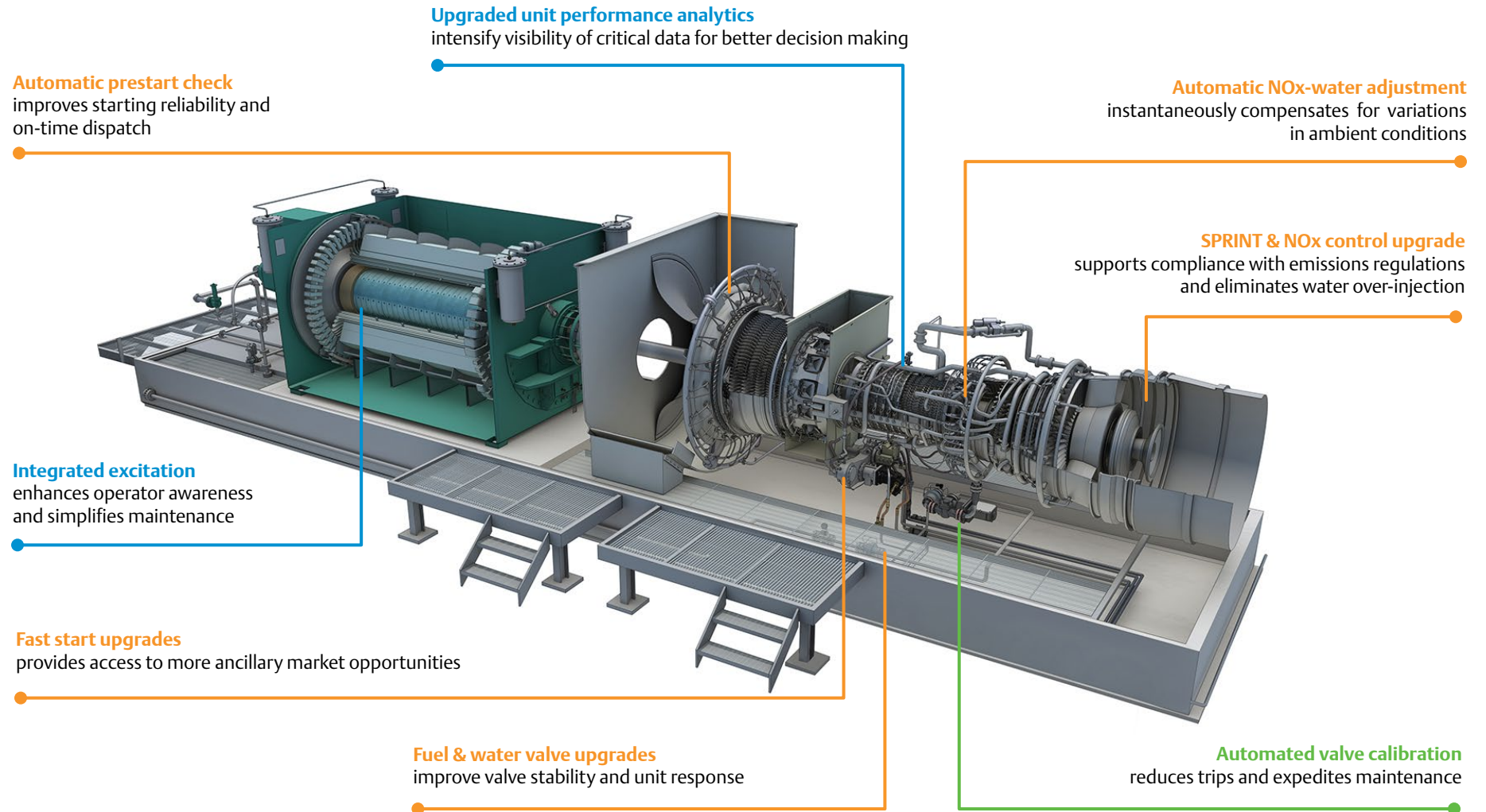# Ovation™ Control & Optimization Solutions for GE LM-Series Gas Turbines

Emerson offers a fully-engineered and field-proven packaged retrofit for GE LM-series gas turbines that:

Improves unit operation

Streamlines maintenance

Increases operator performance

Upgraded unit performance analytics
intensify visibility of critical data for better decision making

Automatic prestart check
improves starting reliability and on-time dispatch

Automatic NOx-water adjustment
instantaneously compensates for variations in ambient conditions

SPRINT & NOx control upgrade
supports compliance with emissions regulations and eliminates water over-injection

Integrated excitation
enhances operator awareness and simplifies maintenance

Fast start upgrades
provides access to more ancillary market opportunities

Fuel & water valve upgrades
improve valve stability and unit response

Automated valve calibration
reduces trips and expedites maintenance

EMERSON™

Innovation. It's In Ovation.™

At Emerson, we continue to evolve our Ovation automation platform well beyond the bounds of traditional distributed plant control. In addition to native advanced applications for optimizing plant operations, Ovation now supports integrated machinery health monitoring and generator excitation as well as embedded simulation and enhanced cybersecurity solutions.

One Platform Delivering Infinite Solutions.

Ovation Excitation

Reduce costs and simplify excitation system engineering and maintenance via a high-performance Ovation module that provides fully integrated generator control, limiting and protection functions designed to meet IEEE 421 standards.

Ovation Machinery Health™ Monitor

Simplify and improve protection and prediction of critical rotating assets via a high-performance Ovation module that provides continuous online monitoring of vibration and other machinery health parameters with orbit, waveform and spectrum analysis display capabilities.

Ovation Embedded Simulation

Eliminate the cost and complexity of maintaining a separate simulator platform by using a common set of engineering tools to keep both high-fidelity and empirical Ovation-based models current with plant control logic.

Power and Water Cybersecurity Solutions

Enhance your plant's cybersecurity posture with embedded Ovation security functions and comprehensive cybersecurity solutions and services, all designed to help you meet regulatory requirements without disrupting the controlled process.

Reduce Risk   **Increase Reliability**   **Lower Lifecycle Costs**

OVATION™

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