

Ovation™ Control & Optimization Solutions for GE Heavy-Duty Gas Turbines

Emerson offers a fully engineered and field-proven Ovation-based packaged retrofit for GE heavy-duty gas turbines that:

Improves unit operation

Streamlines maintenance

Increases operator performance

Integrated excitation
enhances operator awareness
and simplifies maintenance

Dynamic swirl chart
monitors exhaust spreads and
quickly identifies trip cause

Automated DLN tuning
accommodates seasonal tuning
and gas constituent variations

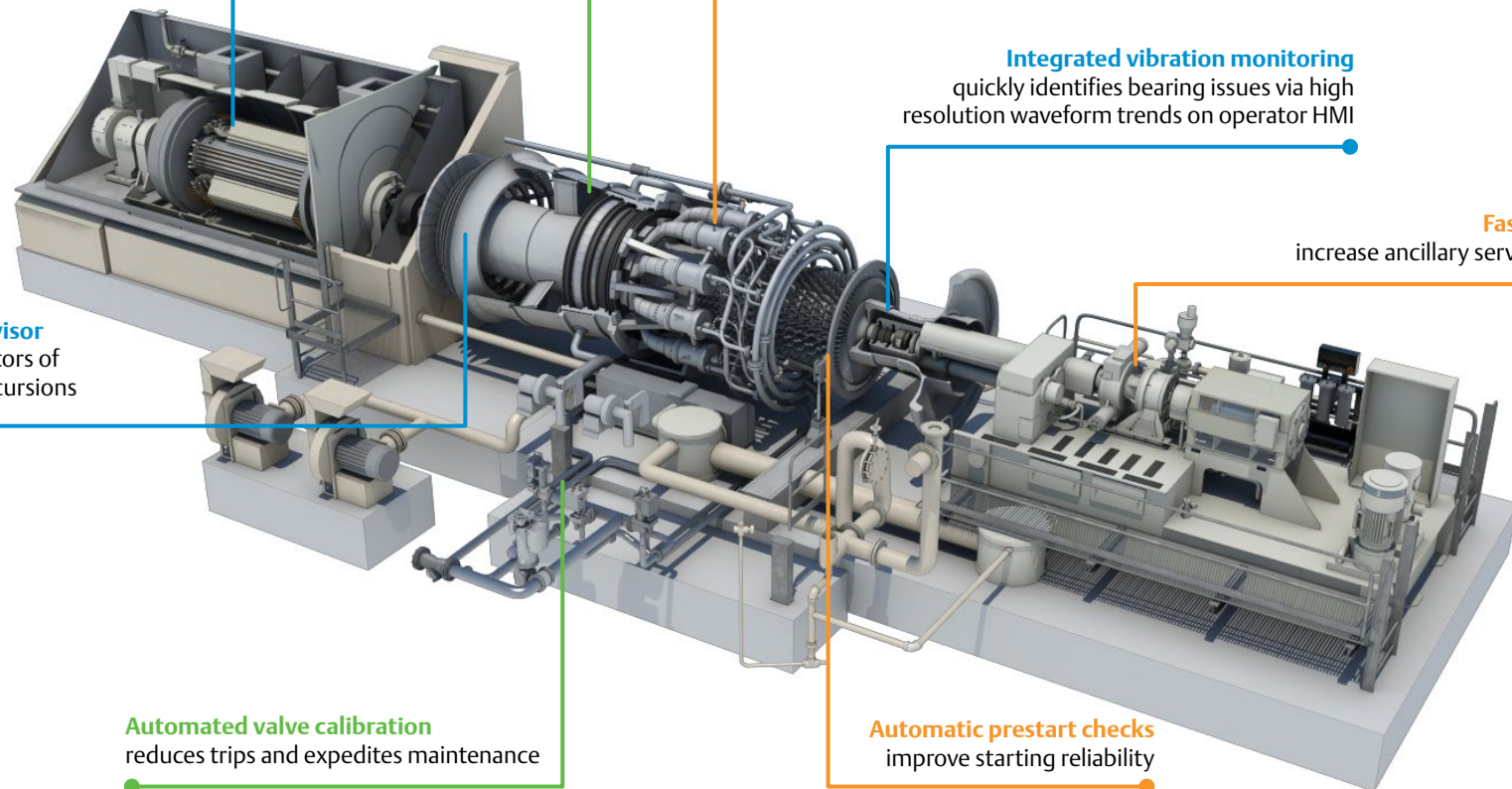
Integrated vibration monitoring
quickly identifies bearing issues via high
resolution waveform trends on operator HMI

Fast start upgrades
increase ancillary service opportunities

NOx-CO advisor
alerts operators of
potential excursions

Automated valve calibration
reduces trips and expedites maintenance

Automatic prestart checks
improve starting reliability



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, comprehensive Power and Water Cybersecurity Suite 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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