Ovation™ Control & Optimization Solutions for Siemens-Westinghouse Gas Turbines

Emerson offers a fully engineered and field-proven Ovation-based packaged retrofit for Siemens-Westinghouse gas turbines that:

- **Improves unit operation**
  - Integrated excitation enhances operator awareness and simplifies maintenance.
  - Automated valve calibration reduces trips and expedites maintenance.
  - Enhanced fuel gas, oil ignition and water injection logic improves unit starting reliability and reduces trips.
  - Integrated vibration monitoring quickly identifies bearing issues via high resolution waveform trends on the operator HMIs.
  - Improved exhaust temperature control optimizes part-load efficiency in combined cycle operation.

- **Streamlines maintenance**
  - Automated turning gear scheduling reduces disc wear and blade problems.
  - Integrated governor and sequencer control simplifies maintenance and reduces costs.
  - Automated DLN protection and tuning provides on-line pulsation protection and tuning for seasonal and gas changes.

- **Increases operator performance**
  - Integrated governor and sequencer control simplifies maintenance and reduces costs.
  - Automated turning gear scheduling reduces disc wear and blade problems.
  - Improved exhaust temperature control optimizes part-load efficiency in combined cycle operation.
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.

**Innovation. It’s In Ovation.™**

**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.

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**Reduce Risk**

**Increase Reliability**

**Lower Lifecycle Costs**