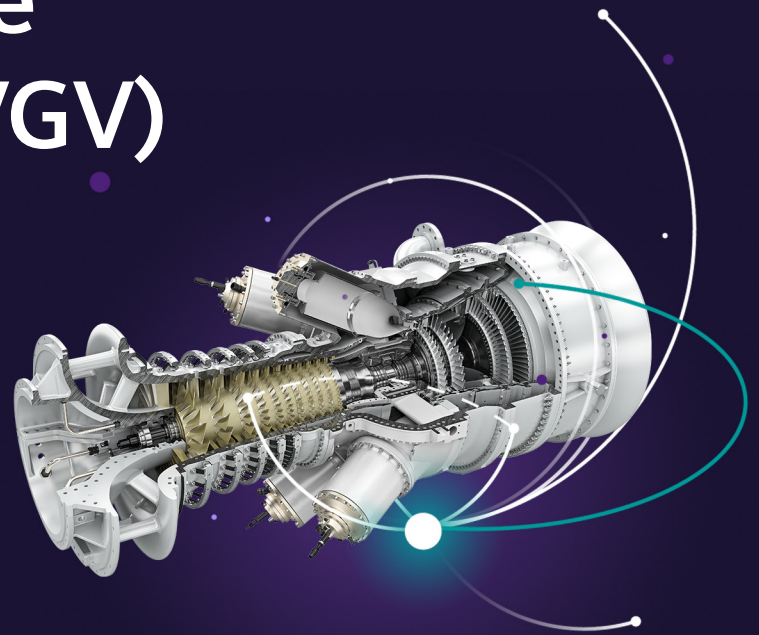


Electric Variable Guide Vane (EVGV) upgrade



[siemens-energy.com](https://www.siemens-energy.com)

Background

The variable guide vanes (VGVs) are located within the compressor stage of a gas turbine and control the air flow through the compressor. This is particularly important during start up and shut down to reduce the possibility of stall and surge. VGV actuation systems have historically been either hydraulic, pneumatic or electric but many of these parts are facing obsolescence issues.

The new electric VGV actuator is designed to replace the hydraulic, pneumatic and early electric actuators across the Siemens Energy Industrial Turbomachinery Ltd (SEITL) SGT fleet.

Fleet applicability

The new EVGV assembly is designed to fit the existing support bracket on the core and is compatible with SGT-100, SGT-300, and SGT-400, as well as in the legacy fleet model SGT-200.

Product design

- The electric actuator uses a 24 VDC motor, integrated drive electronics (in a certified explosion-proof enclosure) and a gearbox to drive the ram which modulates the compressor guide vanes.
- This actuator is more accurate and faster acting than any previous system, improving operability and reliability.
- A single, factory-calibrated component enables easy installation.
- Where it replaces early electrical actuators it will improve response time and accuracy whilst addressing obsolescence.
- Where it replaces hydraulic or pneumatic systems it will improve operability, address current and future obsolescence, and remove the complexity of additional systems (e.g. hydraulic pumps, filters, accumulators).

Benefits



Latest technology



Future proof against obsolescence



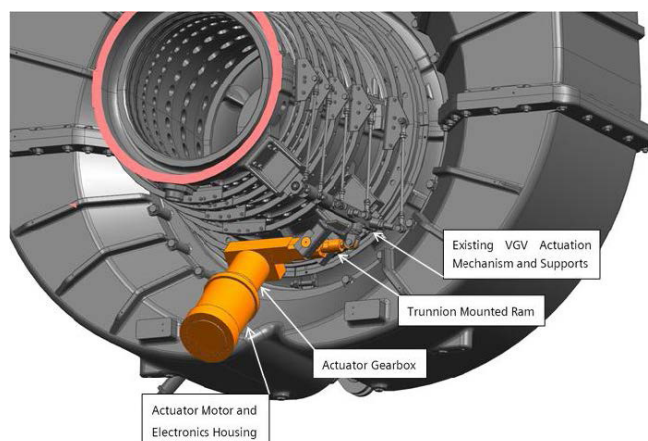
Improved reliability and availability



Improved control and response



Ease of Installation



For inquiries or additional information, please reach out to your Siemens Energy contract or sales representatives, who will be happy to assist you.

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