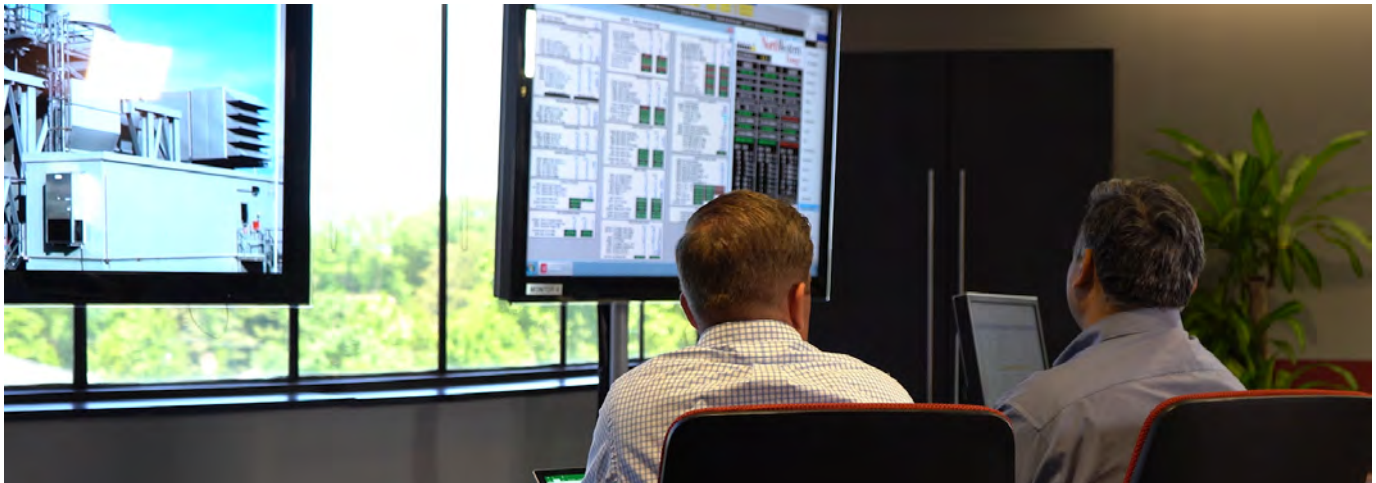


# AFTERMARKET UPGRADES & RETROFITS FOR FT8<sup>®</sup> and FT4000<sup>®</sup> GAS TURBINES



Mitsubishi Power Aero is the place to go when considering upgrades or retrofits for your FT8<sup>®</sup> and FT4000<sup>®</sup> gas turbine equipment, as we add value for customers who need maximum reliability and ease of operations. Your plant is a long-term investment, and our suite of upgrade and retrofit products helps keep it running efficiently. Learn more about the latest Mitsubishi Power Aero upgrade and retrofit offerings for your FT8<sup>®</sup> and FT4000<sup>®</sup> gas turbines.

## LEADING UPGRADES

Mitsubishi Power Aero offers a range of upgrades to meet a variety of needs:

### CONTROL SYSTEMS

Our hardware and software upgrades ensure your systems are running on the latest technology and operating systems. The Gen II Control System Upgrade provides customers with consistent and rapid control of their gas turbines while allowing flexibility to make software changes independently.

### DIGITAL VALVE POSITIONER

The digital valve positioner features a robust, model-based control algorithm for fast and accurate valve/actuator positioning while providing a prolonged valve motor life.

### GAS SYSTEM PURGE CREDIT

Implementing a purge credit upgrade will reduce the start-up time of your plant and improve system response.

### DUAL-FUEL CAPABILITY

For customers looking to enhance plant flexibility, Mitsubishi Power Aero can add multiple fuel capabilities. Recently, we upgraded the multiple fuel capability of our gas turbine packages to use the increasingly popular liquefied petroleum gas (LPG). LPG is cleaner than fuel oil, easily transported and stored, and readily available in many countries. Giving our customers this choice allows them to address new emissions requirements and reduce costs if LPG is available regionally.

## NEW DEVELOPMENTS

In the near future, Mitsubishi Power Aero plans to test and validate two exciting upgrades/retrofits to improve your plant's performance.

The first is our clutch retrofit design for twin engine units, which allows disengagement of the non-fired turbine while your unit is operating as a single engine. By avoiding losses associated with drag, this design saves fuel while producing the same output. In addition, the clutch retrofit would allow the plant to run in synchronous condensing mode to generate or absorb reactive power, either adjusting the grid's voltage or improving the power factor.

The second innovation is the introduction of wet compression technology utilizing our specialized nozzles that cool air intake into your compressor. We expect a notable increase in power for FT8-1 and FT8-3 engine users while also maintaining the durability of your hardware.



## CUSTOMER VALUE

At Mitsubishi Power Aero, our upgrades and retrofits are a cornerstone of enhancing your ownership experience. The existing suite of upgrades and retrofits, along with our latest innovations, reflect our commitment to moving our products onward and upward. Working with our team ensures collaboration from product and system experts throughout the life cycle of your equipment.

## CONTACT US

Contact the Mitsubishi Power Aero Customer Service Department to learn more.

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