

LM6000 Enhanced Package

A reliable and integrated solution for Offshore and Onshore applications

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- ■ ■ □ Pipeline
 - ■ ■ ■ LNG
 - ■ ■ ■ Gas reinjection and storage
 - ■ ■ ■ Offshore applications
 - □ □ Refinery & Petrochemical
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Offering a new solution for offshore and onshore applications, GE Oil & Gas introduces its **LM6000 Enhanced Package**, which builds on more than 16 million hours of experience compiled by GE's LM6000 aeroderivative gas turbine fleet. The LM6000 is the highest efficiency gas turbine that can guarantee NOx emissions at 15ppm in the 35 - 60 MW range.

The new, integrated package features the LM6000 aeroderivative gas turbine coupled with a centrifugal compressor for mechanical drive duty. It has been specifically designed to meet the stringent requirements of the liquefaction market, with special attention to floating LNG applications where compressor operation and fuel flexibility are key.

Key characteristics

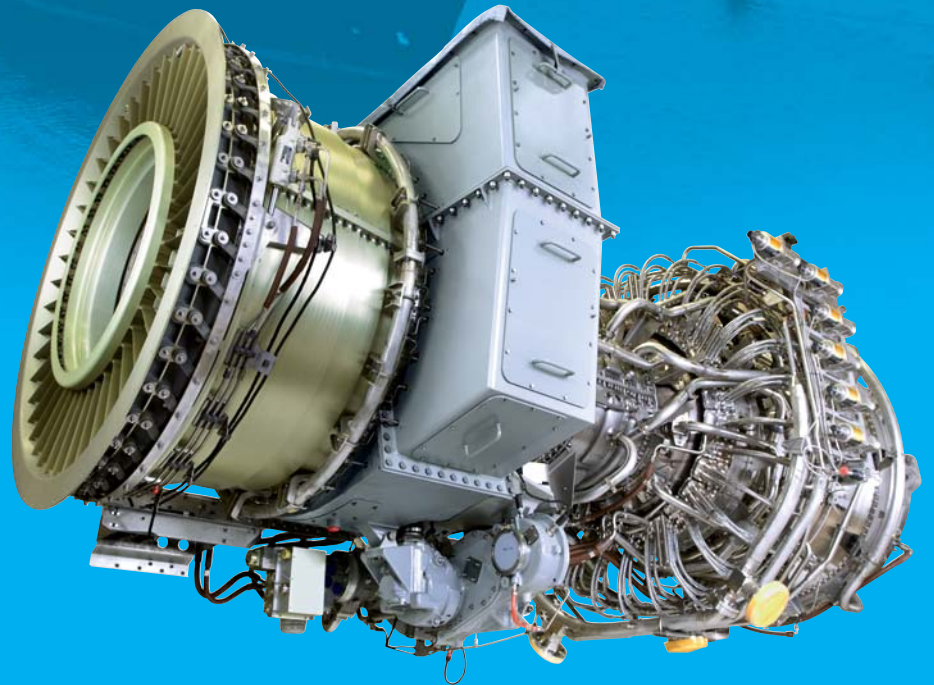
Reduced footprint and weight

Enhanced reliability and availability

Compact modular design reduces installation and commissioning time and ensures ease of maintenance

High efficiency of LM6000 provides fuel cost savings and NOx and CO₂ emission reductions

Leverages on GE's proven experience with marine environment applications, as well as the successful PGT25+ product line



Applying proven, advanced technologies to deliver greater value

Gas Turbine

The LM6000 is a simple-cycle, two-shaft, high performance gas turbine derived from the powerful GE CF6-80C2 high bypass turbofan aircraft engine, delivering more than 44 MW at over 42% thermal efficiency. A direct drive provides 60,000 shaft horsepower from either end of the low pressure rotor for a wide range of electric power generation and mechanical drive applications in any environment.

Mechanical Drive

The LM6000's design allows full speed range capability from 50-105% of the rated speed of 3600 RPM. Continuing the tradition of the established record of GE's PGT25+, the LM6000 is ideal as a source of drive-power for pipeline compression, offshore platforms and gas re-injection, as well as for LNG compressors, both onshore and offshore.

Enhanced Package designed for ease of operation and maintenance

The new **LM6000 Enhanced Package** has been optimized for high reliability, reduced weight and footprint, and fast installation. The main auxiliary systems have been integrated into the gas turbine package to drastically reduce interconnecting cables and pipes, and minimize flushing onsite. Remote I/O control panels can be used for quick connection and to allow functional testing in the GE workshop.

GENERAL SPECIFICATIONS

Compressor

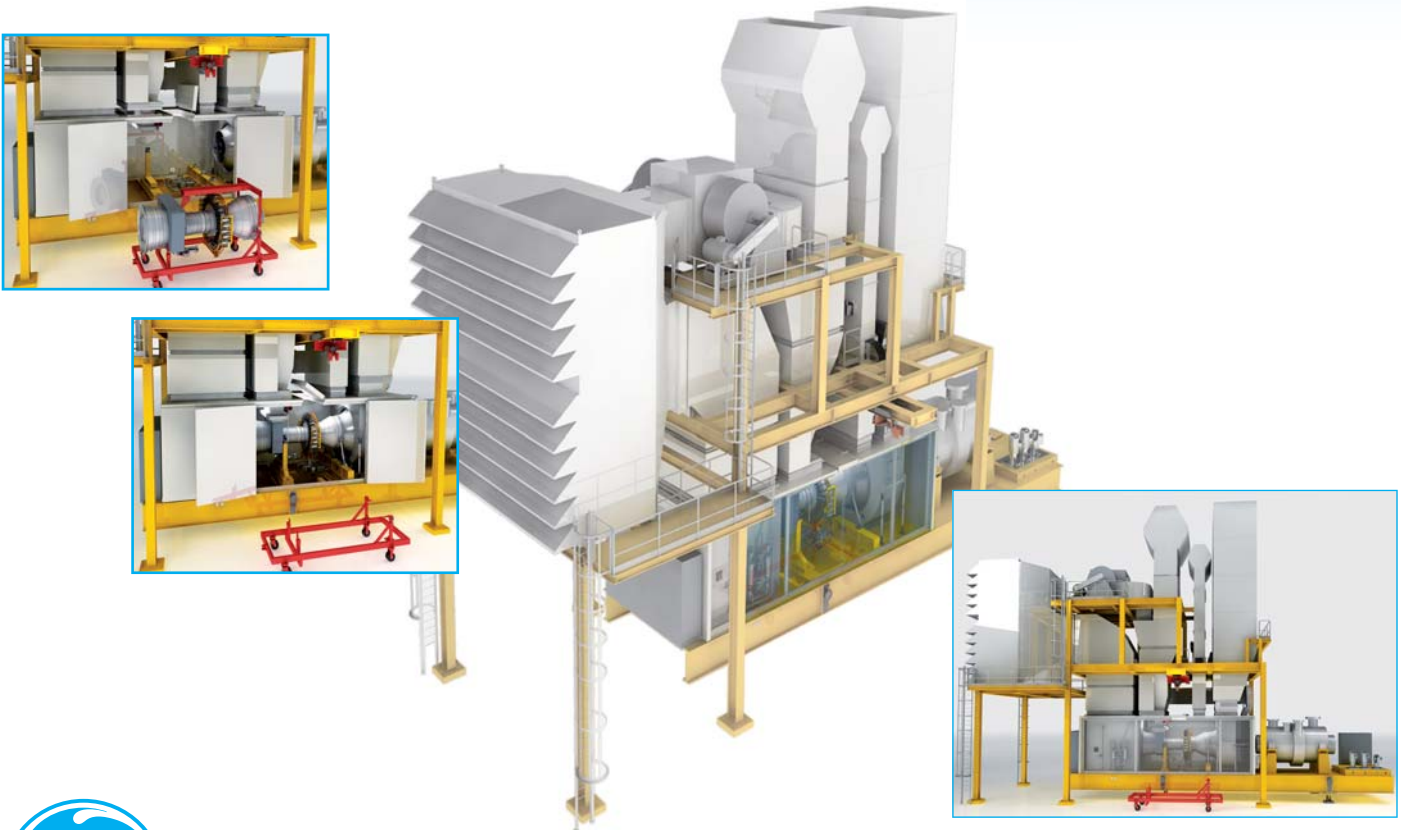
- Two axial compressor (LPC, HPC)
- LPC five stage
- HPC fourteen stage
- Pressure ratio 28,5:1

Combustion & Emission Control

- Single Annular combustion chamber (LM6000PC)
- Dry Low Emission (DLE) system for 25ppm NOx (LM6000PD)
- Dry Low Emission (DLE) system for 15ppm NOx (LM6000PF)

Turbine

- Two stage HPT
- Six stage LPT (3600 RPM)



GE imagination at work