

GE LM2500+G4 Marine Gas Turbines to Power Italian Navy's PPA Offshore Patrol Ships



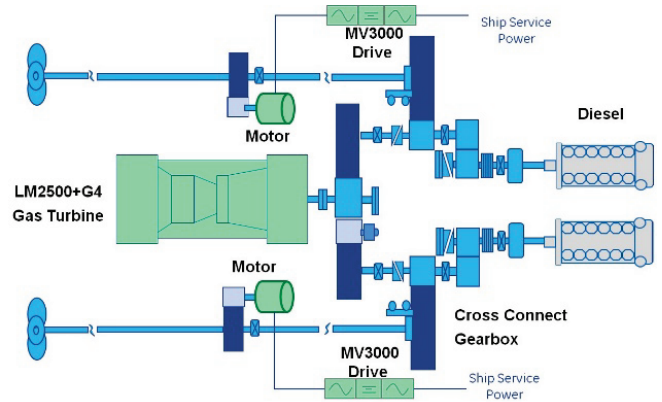
GE LM2500+G4 marine gas turbines will soon power the Italian Navy's new Pattugliatori Polivalenti d'Altura (PPA) multipurpose offshore patrol ships. GE's contract includes an order for seven LM2500+G4 gas turbines. The ship's flexible and unique hybrid propulsion plant will feature small gearbox mounted-motors for low speed operations, two propulsion diesels for mid-speed service and the LM2500+G4 gas turbine to reach 32+ knots. GE also will be responsible for the electrical system integration of the hybrid system.

The PPA project is an example of the GE Store: the LM2500+G4 gas turbines will be built in Evendale, Ohio; Avio Aero will manufacture the LM2500+G4 turbine control system at its facility in Brindisi, Italy; and GE Power Conversion will manufacture the drives. GE LM2500+G4 marine gas turbines were also chosen to power 20 new European Multi-Mission FREMM frigates: 10 ships for the Italian Navy, eight ships for the French Navy, and one ship each for the Egyptian and Royal Moroccan navies.

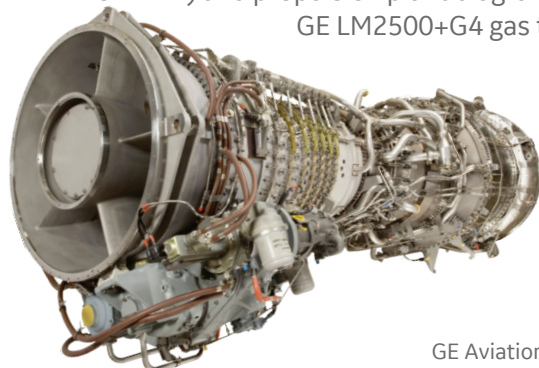
LM2500+G4 Marine Gas Turbine

The LM2500+G4 gas turbine is the fourth generation of the LM2500 marine gas turbine. Main features are increased power (17%) compared to the third generation LM2500+, the same high availability and reliability and the same high efficiency in excess of 39%. The increase in power is derived from a combination of a 6% increase in airflow, higher exhaust gas temperatures and a higher pressure ratio.

To date, GE has on order or has delivered more than 385 LM2500+G4 gas turbines. All GE marine gas turbines reliably operate the world over in some of the most arduous conditions, in temperatures ranging from -40 to 120°F/-40 to 48°C.



The PPA hybrid propulsion plant diagram (above) and a GE LM2500+G4 gas turbine (below)



Shown is an artist rendering of the Italian Navy's PPA offshore patrol ship (by courtesy of FINCANTIERI S.p.A. – All rights reserved)