GE Power & Water’s Distributed Power business is a leading supplier of aeroderivative gas turbines and packaged generator sets for industrial and marine applications. Our products and services help power the potential of customers across a wide range of operational profiles and industries by increasing efficiency while reducing environmental impact.

GE’s continued investment in research and development of aircraft engine technology enables the LM series of gas turbines to maintain a leadership position in technology, performance, operational flexibility and value to the customer. With power output from 18 to 100 MW and the ability to operate with a variety of fuels and emission control technologies, GE’s aeroderivative gas turbines have gained wide acceptance in the industry, with total operating experience surpassing 100 million hours.

**Products known for...**
- Operational flexibility
- High efficiency
- Superb reliability
- Fast installations

**Providing diverse solutions for...**
- FPSO
- Grid Stability
- Utilities
- Oil and Gas
- Industrial
- Pipeline
- Temp Power
- Marine
Fast, Flexible Power

At GE, we recognize the individual operating schemes of our customers are vast and varied. That is why we are committed to providing a flexible portfolio of products to support a full spectrum of operating needs: from fast starts and load following to get peak customers on the grid quickly, high availability and reliability to keep base load customers online for the long haul. Whatever your scenario, we can tailor a solution to meet your needs.

Operational flexibility is inherent to GE’s portfolio of aeroderivative gas turbines and a critical component of our customers’ success. We understand the importance of speed and flexibility when it comes to responding to power demands. Our gas turbines are designed to meet these challenges with efficiency and cost effectiveness.

Fast Installation with Less Interruption

GE is committed to maintaining short manufacturing cycles supported by dependable, predictable delivery times and a robust supply chain. Our modular package designs and on-going interconnect innovation allow for shorter manufacturing cycles and faster installation times with less installed and operational costs than field erected units. All of our units undergo rigorous factory testing after assembly and are ready for operation soon after arriving on site—translating into lower installation costs, shorter project schedules, and reduced financial risk for our customers.

The integration of skid-mounted support systems requires less installation work, time and expense. Fewer materials are shipped directly to the site, reducing the amount of civil works, utilizing package support systems and less foundation work than alternate generation. Our compact, lightweight package design allows for installation flexibility and less process interruption.

Products known for operational flexibility, high efficiency, superb reliability and fast installations

Providing diverse solutions for various industries

- Utilities – peak power, combined cycle, distributed generation, grid stability
- Oil & Gas – mechanical drive, power generation
- FPSO – offshore power with our compact 538 and 538e packages
- Industrial – combined heat and power
- Mobile power – emergency power, peak demand, mining and O&G applications
- Marine – power and propulsion
Fast Starts and Cycling Capability
The ability to go from cold iron to full power in just 10 minutes and the ability to start and stop in short, 15-minute cycles (several times per day if necessary) without impacting maintenance intervals make GE’s aeroderivative gas turbines exceptionally adept at accommodating fluctuating demand with increasing efficiency across multiple industry segments. GE’s aeroderivative gas turbines can be the first to respond to a peak power demand opportunity, without the costs of a spinning reserve.

Load Following
Thanks to a two-rotor design, GE’s aeroderivative portfolio provides higher part power efficiency and faster response to load changes than other similar gas turbines in the industry. This load matching allows for greater grid stability of voltage and frequency, and provides greater starting torque for mechanical drive applications.

High Availability/Reliability
By utilizing aircraft experience and design, our aeroderivative design approach incorporates features such as split casings, modular construction, individual replacement of internal and external parts, and GE’s “lease pool” engine program. Our extensive use of high quality components common with parent aircraft engines validates engine reliability and offers reduced parts cost.

Various inspections and hot section repairs can be performed on the gas turbine at site within the turbine enclosure. The “Hot Section,” HPT and combustor can be removed/replaced in the field within 72 hours, allowing for greater availability during planned maintenance. Greater availability is achieved by the on-condition maintenance program, which inspects and repairs only as necessary to desired operational condition.

Wide Fuel Range
At GE, we understand flexibility in fuel choices is a high priority. Our Alternate Fuels Center of Excellence is leading the industry in identifying, designing, and delivering fuel flexibility options—all with the high reliability, availability, and maintainability standards you expect from GE.

Our experience on liquid biofuels is proven and growing. In addition to conventional turbine fuels such as #2 diesel, jet fuel, and kerosene, aeroderivative gas turbines are designed to run on a range of alternates—from light distillates like naphtha, to greener fuels such as biodiesels and ethanol derived from various feedstocks. Our package and engine systems have over 450,000 hours of successful operations on naphtha fuel, and over 23,000 hours of operation using biodiesel.

Examples of fuel versatility for our gas turbine and package products include:

**Gaseous fuel**
- Pipeline and liquefied natural gas (LNG)
- Syngas (low and medium BTU)
- Propane, high hydrocarbon gas
- Wellhead, associated gas
- Coal bed methane (CBM)
- Landfill gas (LFG)
- Coke oven gas (COG)
- Refinery/process flare gas
- LNG for marine propulsion

**Liquid fuel**
- #2 Diesel
- Jet fuel, kerosene
- Naphtha
- Biodiesel
- Ethanol
- Liquid blends
- Butane
Aero Energy Services

GE customers benefit from a wellspring of operating experience and service expertise that is unmatched in the industry. Our service offerings are designed to help customers meet their operational goals, utilizing field expertise and unique technologies to deliver key results. From simple maintenance services to sophisticated technology upgrades to end-to-end outage services, we can help you keep your equipment operating reliably and efficiently.

Reduced Maintenance Costs

GE's on-condition maintenance philosophy allows the condition of your engine to dictate maintenance activities. Our aeroderivative packages are designed with a high degree of accessibility for easy maintenance including:

- Modular construction permits component inspection/replacement without total disassembly
- Approximately 40 different ports for conclusive on-site borescope inspections
- High pressure compressor split case design
- Individually replaceable compressor blades, stator vanes, and HPT rotor blades
- Horizontally split casings allow detailed inspection and partial blade replacement on-site
- Externally replaceable gearbox and seals
- Externally mounted accessories for easy replacement
- Lightweight aeroderivative design allows fast, on-site engine exchange
- Pre-installed cranes to handle the lightweight aeroderivative gas turbines, allowing for fast engine exchanges

Engine Repair Capability

Our world-class and worldwide network of Service Centers provides our customers with quick turnarounds and convenience. Our Centers of Excellence have the capability to overhaul and repair GE units with quick turnarounds. We are the only LM service centers globally certified to the Aerospace Quality Standard AS9100.

Re-energize Your Plant with GE's Repower Program

GE's Repower program provides the option of replacing older gas and steam turbine equipment with new LM gas turbine technology as an alternative to purchasing a completely new gas turbine package and balance of plant equipment.

Repowering existing gas turbine equipment allows retention of existing plant infrastructure to reduce costs while achieving substantial improvements in thermal efficiency, power output, availability, emissions, fuel efficiency and capital cost savings.
Contractual Service Agreements (CSAs)

Our contractual service agreements (CSAs) create a customized maintenance solution by integrating OEM technical knowledge and remote monitoring and diagnostics with field service, parts, and repairs to protect your investment, improve operational productivity and reduce costs. The CSA is a highly customizable product designed for the wide range of aeroderivative applications, packaging designs, operational demands and geographic locations. Options include full or partial maintenance cost risk transfer, engine-only up to full plant coverage, thermal and operational performance guarantees, integrated access to lease and rotable assets, onsite technical support, comprehensive maintenance planning and a full range of remote services support.

Field Services

GE’s aeroderivative Global Field Services network offers world-class service and support that can anticipate and respond to customer needs throughout the product life of their GE LM engines and packages. Offering the highest quality parts, tools and technical support, these teams are dedicated to reducing downtime and achieving a lower cost of operation. Field Service offerings include periodic inspections of the engine and package, hot sections, generator test and inspection, trim balances, vibration surveys, performance testing, controls calibration, and all Level 1 and 2 maintenance.

Asset Management

GE’s aeroderivative lease pool program is designed to help customers reduce overall life cycle costs and provide a low cost method for maintaining unit availability. Customers can improve site availability by leasing equipment from GE when their own equipment is at a depot for repair, or when equipment is being repaired on site. This program allows lease customers to continue operations to serve their customers and meet their business objectives.

Lease assets are provided under member or non-member lease agreement concepts. Member and non-member rates and options are structured to cover the actual and opportunity costs to GE for every operating and non-operating hour.

Aeroderivative Field Services Locations

Level 2: A center that performs basic field and module repairs
Level 4: A center that performs component repairs
Product Directory

LM2500® Family

GE’s LM2500 has been one of the top selling aeroderivative gas turbine in its class for over 40 years and continues to evolve to provide increased customer value. Offering 18–35 MW with up to 41% efficiency, the LM2500 is capable of serving the demanding and diverse power needs typical of the oil and gas and industrial segments. Its proven reliability and availability, dual fuel capability, outstanding emissions as low as 15 ppm NOx, and fast load response give the LM2500 the ability to meet the demands of a wide range of industries. Moreover, its lightweight and compact design allows for fast installation and ease of maintenance.

The product family boasts over 1,500 installed units and over 65 million hours of operating experience across a variety of operating applications ranging from cogeneration to land-based power generation and mechanical drive to platform power generation and mechanical drive. Derived from the CF6-6® and TF39 aircraft engines used on wide body jetliners, the LM2500 family is a hot-end drive, two-shaft gas generator with free power turbine. Maintaining a high degree of commonality with its flight-tested forerunners, the LM2500 family continues to build its reputation as the most reliable industrial gas turbine generator in its class.

The LM1800e™ is the member of the LM2500 family enhanced for 18 MW power requirement applications. The lower rating allows a lower firing temperature, further extending the hot section and combustor life. As for all members or the LM2500 family, the six-stage power turbine of the LM1800e allows direct drive operation at 50 or 60 Hz (3000 or 3600 rpm), as well as mechanical drive.

The LM2500+™ adds a 17th compressor stage to the LM2500, thereby increasing the engine pressure ratio and airflow to grow the total power output of the gas turbine to over 31 MW. The LM2500+ provides increased power output with the same legendary reliability of the LM2500 family.

LM2500+G4™ is the fourth generation of the LM2500 product. The LM2500+G4 operates at higher rotational speeds and pressure ratios than the LM2500+, providing more power—up to 34 MW. High temperature alloys and cooling technology allow higher power output without affecting reliability.

Packages

GE offers a variety of installation packages that can meet the particular needs of your site. We have a package that can provide high availability with a minimum of site resources. Our cold weather package can operate at –39° C without affecting gas turbine operation. The 538 offshore package is the smallest, lightest packaged power solution in its class.

TM2500® (Fast, Mobile Power Solutions)

GE’s TM2500 Trailer Mounted Unit is a power plant on wheels capable of producing more than 21 megawatts of power on short notice. The TM2500 is a portable version of the well-proven LM2500 Aeroderivative gas turbine. The units are extremely flexible and can be transported by ship, air or road to some of the most remote places around the globe.

The latest enhancements of GE’s trailer mounted unit is the TM2500+™, offering a 31% increase in power in a more compact footprint that can reduce the time between contact and commissioning. The TM2500+ is ideal for providing a base load bridge to permanent power installations or for generating backup power supporting natural disaster relief, plant shutdowns or equipment maintenance. Producing more than 27 MW of power, the TM2500+ can power over 12,000 average-sized U.S. households. The TM2500+ can achieve full power in less than 10 minutes with 37% efficiency and an average noise level of just 87 dBA.
### Mechanical Drive

<table>
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<tr>
<th>MODEL</th>
<th>Output MW</th>
<th>Heat Rate</th>
<th>Pressure Ratio</th>
<th>Power Turbine Speed (RPM)</th>
<th>Exhaust Flow lb/sec</th>
<th>Exhaust Temp. °F °C</th>
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Notes: Performance based on 59°F ambient temperature, 60% RH, sea level, no inlet/exhaust losses on natural gas fuel with no NOx media, unless otherwise specified. Turbine inlet temperature, exhaust flow and exhaust temperature at ISO rating conditions. TM2500 60 Hz based on a Brush air-cooled generator with brushless exitation @ 0.90 PF, 59°F cooling air, 13.8 kV (50 Hz @ 11.5 kV).

† With water injection for NOx control to 25 ppm
†† gearbox

Now packaged on a two-trailer system with a top-mounted air inlet filter and exhaust assemblies, GE’s TM2500+ requires 77% less space than its predecessor. Both the inlet filter assembly and the exhaust duct are mounted directly on top of the main trailer assembly, making the TM2500+ easier to transport by ship, rail or road to even the most remote locations around the globe. The improved TM2500+ design offers an increased number of quick-disconnect fittings, to simplify and accelerate the installation process, which can enable assembly and set-up in just one day.
LM6000

GE’s LM6000 gas turbine family employs proven advanced emissions technology, package flexibility and diverse fuel capabilities that differentiate its ability to serve a broad spectrum of energy users. The LM6000 offers 40 MW to over 50 MW with up to 42% efficiency and 99% fleet reliability in a flexible, compact package design for utility, industrial and oil and gas applications. With fast ramp rates, 10-minute starts, cycling and load following capability, high efficiency and modular maintenance, the LM6000 has been one of the top selling gas turbines in its class for the last 10 years.

Expanding global heritage

Based on the CF6-80C2® aircraft engine, the LM6000 has achieved over 21 million operating hours with over 1,000 units shipped to customers globally—over four times more experience than all other competing gas turbines in its class combined. A global network of over 240 LM6000 owners paired with GE’s broad energy solutions portfolio yields an expansive source of operating expertise and experience unique to GE.

Imagination at work

GE’s aeroderivative gas turbine business invests in diversified, efficient, reliable products and services that enhance customer operability and availability while addressing global energy concerns. Since its commercial introduction in 1992, the LM6000 engine and package design has continued to grow in its capacity to meet a broad spectrum of customer needs through technology developments like 15 ppm Dry Low NOx combustion, spray intercooling for power enhancement, fiber optic distributed controls and off-gas/liquid fuel flexibility.

GE introduced the latest enhancement of its proven LM6000 product line in June of 2008 with the launch of the LM6000-PG with single annular combustor (SAC) and its dry low emissions equivalent, the LM6000-PH. The enhancements include increased power and exhaust energy in the same size gas turbine. The power increase comes from the same 4.5 m X 21.5 m package footprint as existing 50 Hz LM6000 technology, yielding a power density improvement of nearly 20%. The LM6000-PG and LM6000-PH provide combined cycle power in the range of 65 MW to 125 MW (2-on-1 combined cycle configuration) with efficiencies ranging from 52% to close to 55%, depending on selected emissions control methods.

The improved combined cycle efficiency of the LM6000-PG and LM6000-PH can reduce fuel consumption by the equivalent of 33,000 barrels of oil per year, when compared to other similar aeroderivative solutions in its class. GE’s LM6000 uprate also reduces carbon dioxide emissions by 6,500 tons over the course of a typical operating year—the same emissions reduction achieved by removing 2,500 cars from the road annually.
Notes: Performance based on 59°F ambient temperature, 60% RH, sea level, no inlet/exhaust losses on natural gas fuel with no NOx media, unless otherwise specified. Turbine inlet temperature, exhaust flow and exhaust temperature at ISO rating conditions.

† With water injection for NOx control to 25 ppm.

* Please contact your local GE representative for additional information.

### MODEL Output MW Heat Rate Pressure Power Turbine Exhaust Flow Exhaust Temp. Ratio Speed (RPM) lb/sec kg/sec °F °C

<table>
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<tr>
<th>MODEL</th>
<th>Output MW</th>
<th>Heat Rate</th>
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LMS100®

GE’s revolutionary LMS100 provides a single, economical solution for the dispatch needs of nearly every global power segment. Offering 100 MW with unparalleled 44% efficiency, 10 minute start times, unmatched hot day performance, load following and cycling capabilities, the LMS100 is the ideal power generation solution for nearly every dispatch scenario.

The best of both worlds
The LMS100 core engine is derived from the CF6® family of aircraft engines—the same baseline as the LM6000. The current LM6000 fleet of more than 1,000 gas turbine generator sets has surpassed the 21 million hour mark with outstanding reliability and availability of 99.2% and 97.7%†, respectively. The low pressure compressor (LPC) is derived from GE’s MS6001FA gas turbine with more than 90 units in operation and having accumulated in excess of two million fired hours.

Powering the world ... responsibly
Better efficiency means less fuel burned per megawatt generated and fewer CO₂ emissions. The efficiency advantage of the LMS100 extends beyond base load operation into both part power and hot day conditions. Real operating flexibility brings industry-leading efficiencies and improves grid system capability.

Qualifying for the GE ecomagination portfolio, the LMS100 is designed to be more energy efficient than a typical simple cycle gas turbine system.

Now available with Dry Low Emissions (DLE) technology, the LMS100 allows customers to sustain current low emissions levels while eliminating system water requirements, thereby safeguarding a valuable resource at a rate of more than 40 million liters of water each year. The annual water savings achieved by the LMS100 DLE is the equivalent of the amount of drinking water required for more than 165,000 people every day. This technology improvement also translates into a potential cost savings of up to $100,000 over the course of an average peak electricity usage season.

† Based on ORAP® statistical information, from a sample of more than 160 LM6000™ units reporting data to Strategic Power Systems, Inc. All rights reserved. SPS®
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<td>497</td>
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<td>222</td>
<td>763</td>
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Notes: Performance based on 59°F ambient temperature, 60% RH, sea level, no inlet/exhaust losses on natural gas fuel. Turbine inlet temperature, exhaust flow and exhaust temperature at ISO rating conditions. LMS100PA utilizes water injection for NOx control to 25 ppm. LMS100PB utilizes Dry Low Emissions technology for NOx control to 25 ppm.
Facts and Figures

- Headquarters in Houston, Texas
- Major manufacturing facilities: Houston, Texas and Veresegyhaz, Hungary
- Number of employees worldwide: ~1,600
- Applications in over 55 countries
- Total turbines manufactured: 3,700
- Total operating hours: over 100 million