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GE Highlights Trailer-Mounted TM2500 Technology at Power-Gen Asia

BANGKOK—October 4, 2012—GE (NYSE: GE) is showcasing its TM2500 trailer-mounted aeroderivative gas turbines at the Power-Gen Asia tradeshow being held October 3 -5 in Bangkok, Thailand. GE recently celebrated the production of its 100th TM2500, a cornerstone in delivering fast, flexible, reliable power generation anywhere at any time. Thirteen units for Japan are included in GE's fleet of 100.

Known throughout the industry as GE's —power plant on wheels,‖ GE introduced the TM2500 a little more than a decade ago. The milestone unit rolled off the production line at GE's facility in Veresegyház, Hungary, where GE manufactures all 50-hertz TM2500 packages. GE's Jacintoport manufacturing facility located outside of Houston, Texas, assembles 60-hertz power generation packages.

"Fast, efficient, reliable power generation—those are hallmarks of the TM2500, and today we celebrate an important milestone as these products are meeting customer demand for fast, temporary or emergency power generation,‖ said Darryl Wilson, president and CEO—aeroderivative gas turbines for GE Power & Water, who made the announcement during GE's customers' User Conference.

"Today, customers in 22 countries are reaping the benefits of TM2500's temporary and permanent power needs,‖ Wilson said. —This unit, one of 16 packaged in our Hungary facility, will join a growing fleet that is well suited for providing a base load bridge to permanent power or for generating backup power supporting natural disaster relief, plant shutdowns or equipment maintenance. It also can play a vital role in helping customers overcome generation constraints such as hydropower shortages."

A recent project in Japan illustrates how the TM2500 is working to solve the rapid power needs of customers around the globe. Thirteen of GE's TM2500 and TM25000+ units are helping alleviate power shortages in the country. GE began shipping the TM2500 and TM2500+ aeroderivative gas turbines in response to Japan's needs following the earthquake and tsunami in March 2011. The first units were shipped in April 2011, following an aggressive schedule that utilized site preparation and logistics teams around the world.

The TM2500 aeroderivative gas turbine has a rich legacy. It is the portable version of the LM2500 aeroderivative gas turbine, which has been the backbone of the global fleet since it was unveiled in 1969. Today's newest version, the TM2500+, was enhanced in 2010 to provide more power output, in a more compact footprint—two trailers instead of four—with improved interconnection designed for faster installation and set-up. It can provide up to 31 megawatts of power generation in only days, due to its unique roll-on, roll-off capabilities for air, ship or road transportation.

The TM2500+ offers multi-fuel flexibility operating on either natural gas or liquid distillate fuels and is easily converted from 50 hertz to 60 hertz. It can reach full power in less than 10 minutes and is capable of achieving nitrous oxide (NOx) emissions down to 25 ppm with water injection. Operating on natural gas at ISO baseload conditions, the TM2500+ has an efficiency of 37 percent at 60 Hz and 35 percent at 50 Hz with water injection for NOx control.

The enhanced TM2500+ recently received ecomagination™-qualification for its ability to help power cities and industries during environmental, economic and emergency power challenges. The TM2500+ provides customers with faster, more flexible distributed power generation by combining high efficiency, better fuel gas consumption and fuel flexibility, coupled with lower emissions in both

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28	29	30	31	1	2	3

fuel gas consumption and fuel flexibility, coupled with lower emissions in both the 50 and 60 hertz segments. Ecomagination is GE's commitment to providing innovative solutions that maximize resources, drive efficiencies and help make the world work better.

"The TM2500+ is a key member of GE's recently introduced PowerXpand™ Portfolio, which features several GE technologies designed for customers looking to address temporary power needs or searching for permanent power 'in a pinch,'— Wilson added. —Our growing PowerXpand Portfolio also includes the Jenbacher J320 containerized gas engine generator set and the V250/V228 diesel engine generator sets – allowing GE to deliver rapid power solutions that are reliable, whenever and wherever it is needed."

GE's innovative distributed power solutions— which range in size from 100 kilowatts to 100 megawatts—offer industries and communities around the world the ability to generate reliable and efficient on-site power with a variety of fuels to promote greater local energy security and reduced emissions. GE's distributed power portfolio includes GE aeroderivative gas turbines, Jenbacher and Waukesha gas engines and waste heat recovery solutions.

About GE

GE (NYSE: GE) works on things that matter. The best people and the best technologies taking on the toughest challenges. Finding solutions in energy, health and home, transportation and finance. Building, powering, moving and curing the world. Not just imagining. Doing. GE works. For more information, visit the company's website at www.ge.com.

About GE Power & Water

GE Power & Water provides customers with a broad array of power generation, energy delivery and water process technologies to solve their challenges locally. Power & Water works in all areas of the energy industry including renewable resources such as wind and solar; biogas and alternative fuels; and coal, oil, natural gas and nuclear energy. The business also develops advanced technologies to help solve the world's most complex challenges related to water availability and quality. Numerous products are qualified under ecomagination, GE's commitment to providing innovative solutions that maximize resources, drive efficiencies and help make the world work better. Power & Water's seven business units include Aeroderivative Gas Turbines; Gas Engines; Nuclear Energy; Power Generation Services; Renewable Energy; Thermal Products and Water & Process Technologies. Headquartered in Schenectady, N.Y., Power & Water is GE's largest industrial business.

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  - CO2 Fertilization
  - Coal Mine Gas
  - Cogeneration
  - Landfill Gas
  - Mobile & Emergency Power
  - Oilfield Power Generation
  - Sewage Gas
  - Steel Gas
  - Trigeneration
- Oil & Gas Solutions
  - Upstream
  - Midstream
  - Downstream
  - Oilfield Power Generation
- Mechanical Drive Solutions
  - Air Compressors
  - Blowers
  - Chillers
  - Pumps
- Heat Recovery Solutions
- Fuel Rating Instruments
  - Aviation Fuel Rating
  - Cetane Rating
  - Derived Cetane Rating
  - Octane Rating





Mobile & Emergency Power.

During an emergency or a period of intense growth, you need rapid, highly mobile power generation to quickly bridge the power gap. GE delivers fast, temporary expanded power through a variety of gas engine and aeroderivative gas turbine solutions, including our PowerXpand* portfolio.

GE's PowerXpand portfolio consists of the three generator sets: TM2500+ trailer-mounted aeroderivative gas turbine; containerized Jenbacher J320 gas engine; and 12V228 diesel engine.

How It Works

Due to their smaller sizes and GE's ability to rapidly ship, build and commission these technologies, our distributed power solutions are well-suited to respond to a variety of scenarios demanding rapid power generation. The PowerXpand portfolio delivers fast, efficient, flexible, and reliable power when and where you need it, including:

- Helping countries reach electrification goals
- Providing bridge power solutions for growing demand
- Bringing power to remote areas
- Responding quickly to emergency power situations
- Generating backup power to support maintenance, overhauls or outages at power plants or large-scale projects/events

Features and Benefits

- Rapidly portable. Trailer-mounted systems respond to the need for fast or mobile power, and can be transported globally by ship, air, or road.
- Wide range of applications. Our solutions provide scalable power output from 1 MW to 31 MW, and are easily converted from 50 Hz to 60 Hz.
- Efficient and reliable. These products offer operational flexibility, high efficiency, superb reliability, and low emissions.
- Fuel flexibility. Units can operate on natural gas or liquid distillate fuels.
- Fast startup and cycling. Units can achieve full power in less than 10 minutes, and offer excellent short cycle capability.
- Rapid installation. Fast, seamless installation and commissioning allow for operation soon after arrival.
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About this capture

GE's highly developed Jenbacher gas engine and aeroderivative technology can turn steel production by-product gases into efficient power generation with a reduced environmental footprint.

Power Generation Solutions



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Heat Recovery Solutions



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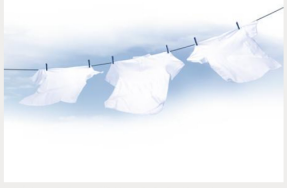
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CO2 Fertilization



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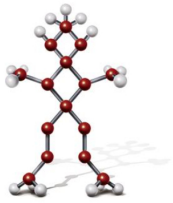
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Steel Gas



Trigeneration



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  - Mobile & Emergency Power
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  - Sewage Gas
  - Steel Gas
  - Trigeneration
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GE Power & Water
Distributed Power

TM2500+™ Mobile Gas Turbine Generator

50/60 Hz Applications

fact sheet



GE Power & Water now offers a faster, more reliable solution for bridging the gap between energy outages and dependable power generation. As the newest enhancement of GE's trailer-mounted unit, the TM2500+ offers a 31% increase in power in a more compact footprint with less time than ever between contract and commissioning.

Perfect for on-demand power, the TM2500+ is capable of producing up to 31 megawatts of power—achieving full power in less than 10 minutes.

Key Product Features and Benefits

- Developed specifically to respond to the need for fast or mobile power
- Small Footprint 24 m x 7 m (78 ft x 21 ft)
- Flexible to operate on either natural gas or liquid distillate fuels
- Dual Frequency—50/60 Hz quick conversion
- Low emissions with demineralized water injection 25 ppm (gas)/42 ppm (liquid)
- Quick to dispatch
- Easy to operate and maintain

imagination at work

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Improved Design

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+ easily transported by ship, air, or road to even the most remote locations around the globe.

The improved TM2500+ design offers an increased number of quick-disconnect fittings, which simplifies and accelerates the installation process allowing for assembly and setup in just one day.

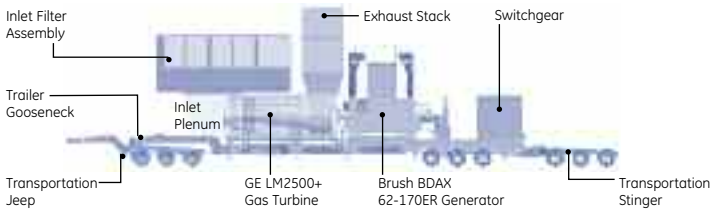
Leveraging experience gained from over 60,000 hours of operation in a variety of applications around the globe, the TM2500+ is easily converted from 50 to 60 Hz and is capable of operating on either natural gas or liquid distillate fuels. The unit also offers the option of water injection for NO_x suppression down to 25 ppm. The TM2500+ incorporates GE's lightweight LM2500+ aeroderivative gas turbine with the Brush 170ER generator.

Applications

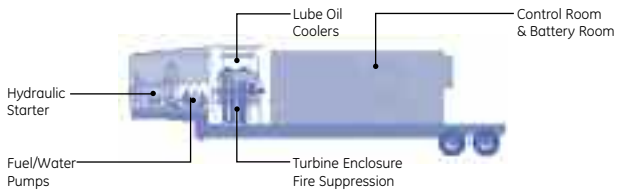
GE has sold more than 2,000 LM2500 and LM2500+ units in power generation applications worldwide, making it the world's most experienced, reliable gas turbine solution for temporary power applications.

- Supplementing power to the grid for peak shaving or managing seasonal demands
- Overcoming generation constraints such as hydropower shortages
- Backup power to support maintenance, overhauls, or outages at power plants or for large-scale projects
- Power for remote areas
- Emergency power support during natural disasters
- O&G and Mining applications

TM2500+ General Arrangement



Auxiliary Trailer



Model	Water Injection (NOx = 25 ppmvd @15% O_2)	Output (MW)	Heat Rate (Btu/kWh)	Heat Rate (kJ/kWh)	Efficiency (%)	Pressure Ratio	Power Turbine Speed (RPM)	Exhaust Flow (lb/sec)	Exhaust Flow (kg/sec)	Exhaust Temp (F)	Exhaust Temp (C)
60 HZ											
TM2500+	None	30.688	8830	9316	39	22.5	3600	192.2	87.2	959.1	515
TM2500+	Yes	30.988	9285	9796	37	22.8	3600	196.6	89.2	906.0	485.6
50 HZ											
TM2500+	None	26.190	9246	9755	37	21.2	3000	184.5	83.7	925.0	496.1
TM2500+	Yes	26.190	9705	10239	35	21.3	3000	187.2	84.9	879.0	470.6

*60 Hz based on a Brush air-cooled generator w/brushless excitation @ 0.90 PF, 59°F cooling air, 13.8 kV (50 Hz @ 11.5 kV), Ambient air: 59°F, 60% RH, Sea level

For more information, contact your GE representative or visit www.ge-aero.com

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GEA17258I (10/2013)

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