



GE Power & Water at POWER-GEN International 2012 Orlando, Florida, U.S.A.

DECEMBER 11-13, 2012

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; 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.

Click on the links to the right to view press releases and additional information. For full interactivity, please view in the most recent version of Adobe® Acrobat or Adobe Reader.

*Trademark of General Electric Company



Press Releases

Thermal Products:

Golden Spread Electric Picks GE FlexEfficiency* 60 Technology for Three New Projects in Texas
GE Launches Gas Turbine Filter Shown to Help Reduce Gas Turbine Degradation (Air Filtration)

Power Generation Services:

GE Celebrates Milestone of Selling 100th Advanced Gas Path System
GE's AGP Technology Helps South Korean Customer Earn Award Finalist Honor
Advanced Gas Path Solution Qualifies for GE's ecomagination* Portfolio

Aeroderivative Gas Turbines:

GE Aeroderivative Gas Turbines Tapped for Independent Power Project in Myanmar

Water & Process Technologies:

GE introduces New Dust Control Solutions for Coal Handling Operations in North America
Lakeland Electric Project to Save between 15 to 20 Percent of Coal Supply Costs Annually with GE's Coal Technology Treatment

Critical Power:

GE Announces Zenith Controls ZT30 Automatic Transfer Switch

Additional Resources

Spokesperson Biographies

GE Power & Water at POWER-GEN International 2012

www.ge-flexibility.com

Follow us on Twitter: [@GE_PowerWater](https://twitter.com/GE_PowerWater)



News Release

Golden Spread Electric Cooperative Selects GE FlexEfficiency* 60 Technology for Three New Projects in Texas

- *Deal Continues Industry Momentum for GE's New FlexEfficiency 60 Portfolio*
- *Gas-Fired Units to Meet Power Needs for Irrigation, Boost ERCOT Reserve Margins*
- *Well-Proven GE 7F 5-Series Gas Turbines Address Region's Varying Power Needs*

ORLANDO, FLA.—December 11, 2012—Golden Spread Electric Cooperative, Inc. of Amarillo, Texas, is the latest customer to select GE's (NYSE: GE) FlexEfficiency 60 technology, which was introduced in September of this year. The cooperative is purchasing three GE 7F 5-series gas turbines for three new power plants that will enter operation between March 2015 and March 2017, GE announced today at [POWER-GEN International 2012](#) in Orlando.

[The 7F 5-series gas turbine](#) is a fully validated member of GE's FlexEfficiency 60 Portfolio and provides significant fuel savings, lower emissions and operating flexibility. The Golden Spread projects follow more than \$1.2 billion in orders GE previously announced for its FlexEfficiency 60 gas turbines, including five 7F 5-series gas turbines for three sites in the United States.

[Golden Spread](#) will install the 7F 5-series gas turbines at sites to be determined in the Texas Panhandle or West Texas, to provide power for its cooperative members who operate in the Southwest Power Pool (SPP) and Electric Reliability Council of Texas (ERCOT) electric operating grids.

"Our members depend on us for reliable and efficient power, and we have selected GE's new FlexEfficiency 60 technology to meet those needs," said Mark Schwartz, president and general manager of Golden Spread Electric Cooperative. "We believe that the 7F 5-series gas turbine will provide a good match for our diverse electricity requirements."

As part of [GE's FlexEfficiency 60 Portfolio](#), the 7F 5-series gas turbine incorporates advanced combustion technology to deliver operating flexibility, including better turndown capability, while sustaining higher levels of efficiency compared to earlier gas turbine models. This can translate into increased revenue across a wide range of operating conditions.

"As the new order with Golden Spread Electric Cooperative demonstrates, we continue to see strong industry acceptance for our new FlexEfficiency products," said Paul Browning, president and CEO, Thermal Products of GE Power & Water. "This technology offers an unprecedented combination of baseload efficiency and operating flexibility to address the complex needs of today's energy grid. The 7F 5-series offers both the flexibility and the proven performance to meet Golden Spread's wide range of power generation requirements."

Golden Spread is an existing GE customer and already has a fleet of five GE gas turbines. GE's Measurement & Control business has provided upgrades and GE Power Generation Services is providing an OpFlex* Peak Fire upgrade to 7F 3-series units in the fleet. OpFlex Peak Fire is an application available in the OpFlex Solutions Suite, a portfolio of advanced controls software applications developed to give customers increased flexibility to improve their power plant technology.

The 7F 5-series gas turbine has been validated at GE's full speed, full load gas turbine validation test facility in Greenville, South Carolina, USA. This dual fuel, non-grid connected facility has the capability to test part loads, peak loads, variable frequency operation, and transient capability. The 7F 5-series gas turbine has met or exceeded GE's validation requirements through extensive testing and operation.

With more than 800 7F gas turbines operating in the field providing over 29 million fired hours and 700 thousand fired starts, customers around the world have come to rely on the proven reliability and availability of GE's 7F gas turbines.

For more information about GE's FlexEfficiency 60 technology, visit www.ge-flexibility.com.

For more information and images, visit [GE's POWER-GEN International site](#).

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.

Follow GE Power & Water and ecomagination on Twitter [@GE_PowerWater](#) and [@ecomagination](#).

###

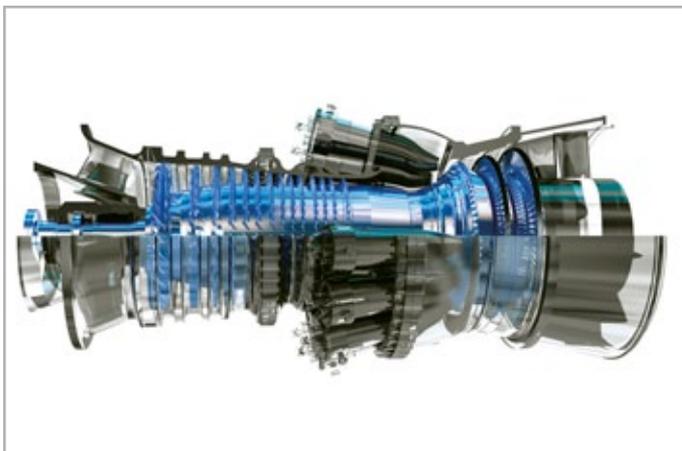
* Trademark of General Electric Company

For more information, contact:

Cynthia White
GE Power & Water
+1 518 956 4839
cynthiam.white@ge.com

Ken Darling or Howard Masto
Masto Public Relations
+1 518 786 6488
kenneth.darling@ge.com
howard.masto@ge.com

See next page for related images.



7F 5-Series Gas Turbine

GE's 7F 5-series gas turbine provides reliable power output while delivering fuel savings and reduced emissions. It has completed full speed, full load validation testing and is slated for deployment in exceptionally demanding applications.



FlexEfficiency* 60 Portfolio

GE's FlexEfficiency 60 Portfolio is a comprehensive suite of advanced power generation technologies for 60 hertz countries engineered to enable greater use of natural gas, wind and solar, transforming the way utilities bring cleaner energy to the world. The FlexEfficiency 60 Portfolio combines record-breaking efficiency, which will reduce emissions and save money, along with unprecedented flexibility, which will enable utilities to deliver power quickly when it is needed and to ramp down when it is not, balancing the grid cost-effectively.

For image files, please contact:

Gina DeRossi
Masto Public Relations
+1 518 786 6488
gina.derossi@mastopr.com



FlexEfficiency Truck Tour

GE is traveling to cities across North America to demonstrate how the FlexEfficiency 60 Portfolio is meeting today's environmental challenges while driving economic growth. The FlexEfficiency Truck is on the floor at POWER-GEN International.

*Trademark of General Electric Company



News Release

GE Launches New Inlet Filter Shown to Help Reduce Gas Turbine Degradation

- *ClearCurrent PRO Cartridge Filter Helps Provide Predictable and Reliable Gas Turbine Performance*
- *Inlet Systems Installed with ClearCurrent PRO Offer Improved Output, Lower Heat Rates and Overall Turbine Efficiency*

ORLANDO, FLA.—December 11, 2012—GE (NYSE: GE) today introduced [ClearCurrent PRO](#), an innovative gas turbine inlet filter cartridge that has been field tested and shown to positively affect gas turbine performance while helping to reduce the effects of turbine degradation.

GE is the only company that manufactures gas turbines and the inlet filtration systems that are key contributors to good gas turbine performance. With the release of ClearCurrent PRO, which contains PRO (Predictable, Reliable Output) technology, [GE's Air Filtration business](#) has shown that selecting the right filter and monitoring air quality is one of the most important aspects to delivering the turbine performance that operators require.

The filtration portfolio expansion supports GE's growing focus on the use of natural gas, the cleanest fossil fuel, for power generation. GE's ClearCurrent PRO cartridge filters are compatible with GE's [FlexEfficiency* Portfolio](#).

Keeping pace with the growing demand for natural gas power generation equipment, GE's Air Filtration business added more than 115 new jobs in 2012. Over the next five years, GE plans to invest nearly \$11 million to improve its facilities that produce the ClearCurrent PRO cartridges.

"The integration of GE's air filtration and heavy duty gas turbine technologies has enabled an unprecedented level of performance over the life of the power plant," said Keith White, general manager of GE's Air Filtration business. "ClearCurrent PRO's inlet filter offers enhanced output and lower fuel costs for turbine operators."

The Air Filtration team monitored the performance of ClearCurrent PRO for the last several years at a variety of worldwide installations, including both coastal and inland sites. The team found that inlet systems installed with ClearCurrent PRO offered improved output, lower heat rates and overall turbine efficiency compared with earlier technologies. Reduced degradation is vital to turbine operators that can potentially see savings on maintenance costs, or more revenue, due to increased power generation.

"Degradation-based maintenance is very important to turbine operators," said Paul Sennett, product line leader for gas turbine inlet systems at GE. "Our PRO technology can help reduce that degradation and make it so that the choice of inlet filters has a direct correlation to turbine performance."

ClearCurrent PRO cartridges are available in both galvanized and stainless steel. For an up-close look at the ClearCurrent PRO and how an inlet filter can help turbine performance, visit the Air Filtration team at the GE booth No. 2689 at the [POWER-GEN International](#) show Dec. 11-13 in Orlando, Fla.

For more information and images, visit [GE's POWER-GEN International site](#).

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.

Follow GE Power & Water on Twitter [@GE_PowerWater](#).

###

For additional information, please contact:

Lori Ragsdale
GE Power & Water
Air Filtration
+1 816 313 4496
lori.ragsdale@ge.com

Gina DeRossi or Howard Masto
Masto Public Relations
+1 518 786 6488
gina.derossi@mastopr.com
howard.masto@ge.com

See next page for related images.



ClearCurrent PRO cartridge filter

GE's ClearCurrent PRO cartridge filter helps reduce gas turbine degradation while providing predictable and reliable turbine performance.

For image files, please contact:

Gina DeRossi

Masto Public Relations

+1 518 786 6488

gina.derossi@mastopr.com



News Release

GE to Install Its 100th Advanced Gas Path System at South Korea's Largest Electric Utility to Improve Gas Turbine Performance by Nearly 5 Percent

- *Advanced Gas Path Solution Delivers Industry-Leading Upgrade Performance*
- *Additional Output to Support South Korea's Rapidly Growing Energy Demand*
- *AGP Solution Offered Through GE's FlexEfficiency* Advantage Portfolio*
- *FlexEfficiency* Advantage Taps the Power of the [Industrial Internet](#), Connecting People, Data, and Machines*
- *Proven Technology is Operating Globally on 22 GE 7F Gas Turbines*

ORLANDO, FLA.—December 11, 2012—GE (NYSE: GE) today announced an agreement with Korea Southern Power Company, Ltd. (KOSPO) to upgrade two 7F gas turbines with its FlexEfficiency* Advantage [Advanced Gas Path \(AGP\)](#) solution, marking the 100th system sold to date. AGP technology delivers industry-leading gas path upgrade performance and operational flexibility by increasing gas turbine output, efficiency and availability. KOSPO, South Korea's largest electric utility, is installing the technology on two units at its Pusan plant in Incheon to support the region's population growth and economic expansion.

GE announced the project at this week's [POWER-GEN International 2012](#) trade conference in Orlando, Fla. AGP upgrade technology broadens the operating range of installed gas turbine assets with performance improvements including up to a 4.8 percent output increase and fuel efficiency improvement as much as 1 percent in combined-cycle operation. This solution also enables GE customers to benefit from the industry's longest maintenance intervals of up to 32,000 hours or 900 starts, which can extend outage intervals by up to 33 percent. AGP design innovations also can help lower lifecycle maintenance costs by extending gas turbine asset and parts life out to as much as 96,000 hours.

"Celebrating this important benchmark with KOSPO is quite gratifying for the GE team, considering the key role this solution is playing to support South Korea's growing demand for energy," said Fintan Tuffy, general manager, fleet analytics and performance management, GE's Power Generation Services business. "We are seeing strong momentum with customers around the globe in adopting AGP technology as they recognize how the flexibility it provides can address their multiple operational demands. Additionally, our global field services footprint enables us to deliver this solution to customers in a timely manner and continue supporting their long-term maintenance needs."

GE's [FlexEfficiency* Advantage](#), which features the AGP solution, enables GE customers to deploy 21st century technology to their installed power generation assets and current operational demands. GE leverages the latest in thermodynamic design and its exclusive systems understanding to deliver modern-day efficiency and output while maintaining low emissions. Since installing its first [heavy-duty gas turbine](#) in 1949, GE has amassed more than 25 terabytes of OEM engineering data, plus more than 93 million hours of real-world operating data. GE analyzes this vast repository of information daily to extract the fundamental, systems-based knowledge needed to optimize performance.

GE customers around the globe currently are operating 22 [7F gas turbines](#) with AGP technology to address a wide scope of regional market dynamics:

- KOSPO has installed six AGP systems at its Shinincheon plant to generate 130 megawatts (MW) of additional power. With South Korea's burgeoning economy driving higher demand for electricity, the upgrades have helped ensure the country's grid stability and provided a higher reserve margin of power, which previously dipped as low as 4 percent during peak demand periods. "We approached GE as a partner to identify a solution that would address the growing economic diversity and demand for energy that our country is experiencing," said Kyung-kyu Lim, manager, KOSPO's PowerGen department. "Having the ability to deliver more power by upgrading our existing infrastructure has been a timely and cost-effective approach to meeting our customers' needs, while maintaining our commitment to clean energy production."

- Calpine Corporation's Los Medanos and Pastoria plants in California, and Westbrook facility in Maine, have experienced a 5.5 percent output increase since installing AGP technology on six GE 7F gas turbines. They also have experienced an approximately 1 percent improvement in site heat rates. This performance has better positioned the plants to bid more competitively for power demand, as well as capitalize on opportunities to capture additional revenue.
- A Southeastern U.S. GE customer is deploying AGP technology on its 7F gas turbines as part of its long-term fleet modernization strategy. The project is improving the power provider's operational efficiency, expanding its capacity and will help manage long-term costs more effectively to deliver additional value to the company's customers and shareholders.
- AGP upgrades on two 7F gas turbines at Duke Energy's Smith Energy Complex in Raleigh, N.C., are currently being installed and will generate an output increase of 16 MW and fuel efficiency increase of more than 1 percent. Richmond County's growing population and regional business footprint has driven incremental power demand, along with the need for the site to operate more flexibly as market conditions fluctuate.
- In Alberta, Canada, TransCanada Energy Ltd.'s MacKay River cogeneration plant needed to deliver more electricity and steam capacity, while maintaining high operational availability to support its nearly 24-hour-a-day manufacturing cycle. The upgrade currently is being installed and MacKay expects to increase its power output by 4.5 percent, while maintaining its low emissions footprint to remain aligned with Alberta's clean energy policies.
- IBERDROLA, Mexico's leading private power generation company, installed AGP upgrades on eight units at its TAMAZUNCHALE and Altamira V plants to manage operational costs including fuel consumption. Additionally, since deployment of the technology in 2010, the output gained from the upgrades has enabled IBERDROLA to increase its operational revenue by winning more bids for power in the region.

GE has leveraged more than 30 million hours of 7F operational experience, including 150,000+ operating hours of AGP systems data, in applying design innovations to key gas turbine components including hot gas path buckets, nozzles and shrouds. Cooling and sealing advancements on these and other components enable a GE gas turbine to operate at higher temperatures, which translates to increased output in varying ambient conditions and operating profiles. The system's cooling and sealing features also help GE customers achieve more operational efficiency and, in turn, lower fuel consumption.

The AGP solution also has qualified for GE's [ecomagination](#)* portfolio. The technology enables power providers to reduce fuel consumption up to 1 percent or more, as well as CO₂ emissions, while operating with the flexibility they need amid shifting market conditions. ecomagination is GE's commitment to imagine and build innovative solutions to today's environmental challenges while driving economic growth.

A GE customer operating a 2x1 7F combined-cycle plant, powered by a 7F gas turbine with AGP technology, and generating a net output of 525.2 MW, can reduce its CO₂ emissions by 11,400 tons per year. This reduction equates to the annual CO₂ emissions of approximately 2,200 cars on U.S. roads. Under these same operating conditions, the site also could realize an annual fuel savings of more than \$790,000 at a natural gas price of \$3.75 per MMBtu.

For more information and images, visit [GE's POWER-GEN International site](#).

To view GE's Advanced Gas Path press kit, please [click here](#).

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.

Follow GE Power & Water on Twitter [@GE_PowerWater](#).

###

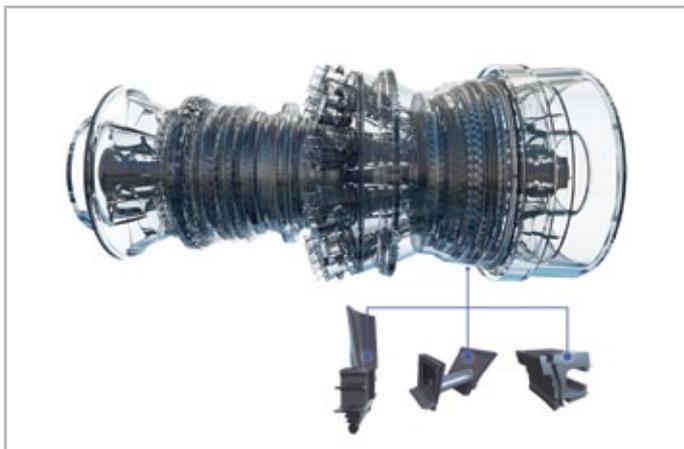
* Trademark of General Electric Company; may be registered in one or more countries.

For more information, contact:

Michael Goldstein
GE Power & Water
+ 1 678 844 6653
michael.goldstein@ge.com

Gina DeRossi or Ken Darling
Masto Public Relations
+1 518 786 6488
gina.derossi@mastopr.com
kenneth.darling@ge.com

See next page for related images.



AGP Assembly with components

The buckets, shrouds and nozzles for all three hot gas path stages of GE's 7F gas turbine feature design advancements that drive industry-leading upgrade performance in output, efficiency and asset/parts life.



PGS Generation IQ Center2

GE monitoring and diagnostic facilities including the Generation IQ[®] Center in Atlanta, GA, have amassed more than 93 million hours of real-world operating data, which is analyzed for development of solutions including GE's Advanced Gas Path upgrade.

*Trademark of General Electric Company

For image files, please contact:

Gina DeRossi

Masto Public Relations

+1 518 786 6488

gina.derossi@mastopr.com



News Release

GE Advanced Gas Path Upgrade Helps Korean Utility Win Finalist Honors for Power Engineering's Best Gas Project of the Year Award

- *Korea Southern Power Company, Ltd. (KOSPO) Receives Recognition at POWER-GEN International Conference*
- *Advanced Gas Path Solution has Boosted KOSPO's Power Capacity in Response to Country's Growing Demand for Electricity*
- *Project Helps Ensure Grid Stability by Increasing Region's Grid Reserve Margin*
- *Announcement of Additional KOSPO Upgrades Marks Commitment for GE's 100th AGP System*
- *FlexEfficiency* Advantage Taps the Power of the [Industrial Internet](#), Connecting People, Data, and Machines*

ORLANDO, FLA.—December 11, 2012—GE (NYSE: GE) customer Korea Southern Power Company, Ltd. (KOSPO) today was recognized as a finalist for a Power Engineering 2012 Best Gas Project of the Year award at the [POWER-GEN International 2012](#) trade conference in Orlando, Fla. To respond to growing power demand in the region, KOSPO, South Korea's largest electric utility, installed GE's Advanced Gas Path (AGP) upgrade technology on six 7F gas turbines at its Shinincheon plant. GE developed the AGP solution by leveraging its [FlexEfficiency* Advantage](#), which applies unparalleled data analytics and knowledge to make customers' existing assets smarter.

"We are a leading power provider in South Korea, and this project is an important part of our strategy to meet the region's current energy demands and future economic expansion," said Kyung-kyu Lim, manager, KOSPO's PowerGen department. "Using GE's technology helped us to expand the performance of our current power generation equipment and quickly deliver additional electricity to our customers. We achieved this without the infrastructural and environmental impacts we would have faced by building a new plant. KOSPO thanks GE for being a true partner on this project, as well as Power Engineering for this wonderful recognition."

South Korea, one of the few developed countries able to avoid recession during the global financial crisis, saw its economy grow more than 6 percent in 2010 due to a burgeoning manufacturing base and steady population growth. KOSPO needed an immediate solution to help ensure grid stability without negatively impacting the company's commitment to reducing its environmental footprint.

KOSPO and GE collaboratively developed a plan to optimize the performance of six existing GE gas turbines at Shinincheon. The project included installing GE's early [AGP technology](#), combined with an enhanced compressor, dry low NO_x (DLN2.6) extended interval hardware combustion system and cooling optimization package. Since completion of the installation, the upgrade has resulted in total incremental output of 130 megawatts (MW), plus reduction in NO_x from 20 ppm to 9 ppm. The additional capacity also is playing an integral role in ensuring the region's grid stability by elevating its reserve power margin, which had dipped as low as 4 percent during peak demand periods.

"We are delighted to see KOSPO receive such esteemed recognition for the impact this project is making in South Korea," said Fintan Tuffy, general manager, fleet analytics and performance management, GE's Power Generation Services business. "Their commitment to fulfilling the needs of their customers, while strategically planning for the country's ongoing economic growth, was evident throughout this project. With our local resources in the region, the GE team was able to complete this project on KOSPO's compressed schedule, and will be available to support the plant throughout its lifecycle."

GE today also announced an agreement with KOSPO to install AGP technology on two additional [7F gas turbines](#), marking its 100th AGP system commitment to date. KOSPO will have the upgrades installed on units at the Pusan plant located in

Incheon. The upgrade is expected to deliver 20 MW of additional power while maintaining low NO_x emissions of 9 ppm. This announcement further extends KOSPO's partnership with GE to help South Korea keep pace with its steadily growing energy demands.

Installed in three phases, the project was challenged to return the units to service as quickly as possible. GE's site team responded by reducing the outage by seven days, while maintaining the safety and technical integrity of the upgrade. The upgraded units, to date, have contributed more than 6,745,980 MWh in accumulated generation to the grid.

The AGP solution delivers industry-leading upgrade performance featuring increased output, efficiency and availability, which can be deployed flexibly according to operational needs. AGP upgrade technology broadens the operating range of installed gas turbine assets with performance improvements including up to a 4.8 percent output increase and fuel efficiency improvement as much as 1 percent, both in combined-cycle operation. This solution also enables GE customers to benefit from the industry's longest maintenance intervals of up to 32,000 hours or 900 starts, which can extend outage intervals by up to 33 percent. AGP design innovations also can help lower lifecycle maintenance costs by extending gas turbine asset and parts life out to as much as 96,000 hours.

The AGP solution has qualified for GE's [ecomagination](#)* portfolio. This technology enables power providers to reduce fuel consumption up to 1 percent or more, as well as CO₂ emissions, while operating with the flexibility they need amid shifting market conditions. ecomagination is GE's commitment to imagine and build innovative solutions to today's environmental challenges while driving economic growth.

Through the FlexEfficiency Advantage, GE customers can deploy 21st century technology to their installed power generation assets and current operational demands. GE leverages the latest in thermodynamic design and its exclusive systems experience to deliver modern-day efficiency and output while maintaining low emissions. Since installing its first [heavy-duty gas turbine](#) in 1949, GE has amassed more than 25 terabytes of OEM engineering data, plus more than 93 million hours of real-world operating data. This vast repository of information is analyzed every day to extract the fundamental, systems-based knowledge needed to optimize performance.

For more information and images, visit [GE's POWER-GEN International site](#).

To view GE's Advanced Gas Path press kit, please [click here](#).

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.

Follow GE Power & Water on Twitter [@GE PowerWater](#).

###

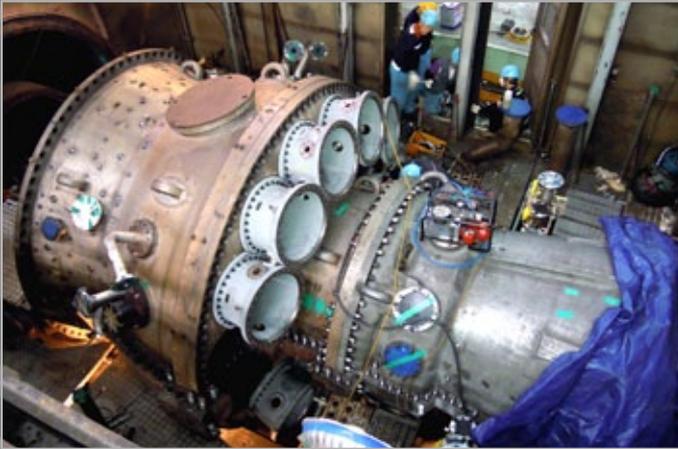
* Trademark of General Electric Company; may be registered in one or more countries.

For more information, contact:

Michael Goldstein
GE Power & Water
+ 1 678 844 6653
michael.goldstein@ge.com

Gina DeRossi or Ken Darling
Masto Public Relations
+1 518 786 6488
gina.derossi@mastopr.com
kenneth.darling@ge.com

See next page for related images.



KOSPO AGP1

GE's 7F gas turbine at the Shinincheon plant, South Korea, which is operated by Korea Southern Power Company, Ltd. (KOSPO), is reassembled following installation of Advanced Gas Path technology.

For image files, please contact:

Gina DeRossi

Masto Public Relations

+1 518 786 6488

gina.derossi@mastopr.com



News Release

GE's ecomagination* Qualified Advanced Gas Path Technology Leverages Company's FlexEfficiency* Advantage to Cut Fuel Consumption, Emissions

- *Solution Joins GE's ecomagination Portfolio with Industry-Leading Upgrade Performance*
- *AGP Technology Applies Data and Knowledge to Make Machines Smarter*
- *Proven Technology is Operating on 22 GE 7F Gas Turbines Worldwide*
- *FlexEfficiency* Advantage Taps the Power of the [Industrial Internet](#), Connecting People, Data, and Machines*

ORLANDO, FLA.—December 11, 2012—GE's (NYSE: GE) [FlexEfficiency* Advantage](#) Advanced Gas Path (AGP) solution has qualified for the company's ecomagination* portfolio by delivering proven, industry-leading upgrade performance to customers with existing [GE heavy-duty gas turbines](#). AGP technology enables power producers to benefit from greater operational flexibility driven by increased output, efficiency and availability, while also reducing fuel consumption and CO₂ emissions. ecomagination is GE's commitment to providing innovative solutions that maximize resources, drive economic performance and help make the world work better.

GE made the announcement at this week's [POWER-GEN International 2012](#) trade conference in Orlando, Fla. [GE's AGP solution](#) broadens the operating range of installed gas turbines with performance improvements including up to a 4.8 percent output increase and fuel efficiency improvement as much as 1 percent in combined-cycle operation. This solution also enables GE customers to benefit from the industry's longest maintenance intervals of up to 32,000 hours or 900 starts, which can extend outage intervals by up to 33 percent. AGP design innovations also can help lower lifecycle maintenance costs by extending gas turbine asset and parts life out to as much as 96,000 hours.

"Our customers are challenged on a daily basis to operate their existing assets under ever-changing market conditions while remaining compliant with evolving environmental regulations," said Fintan Tuffy, general manager, fleet analytics and performance management, GE's Power Generation Services business. "The Advanced Gas Path solution enables energy producers to generate more power when it's needed and, at the same time, strengthens our customers' position as environmental stewards in the communities that they serve."

To qualify for the [ecomagination](#) portfolio, products and services must significantly and measurably improve customers' operating performance or value proposition and environmental performance. GreenOrder, an LRN advisory group focused on sustainability strategy, verifies the offerings' claims.

Findings showed that a typical combined-cycle plant powered by a [GE 7F gas turbine](#) with AGP technology, and generating a net output of 525.2 megawatts (MW), can reduce its CO₂ emissions by 11,400 tons per year. This reduction equates to the annual CO₂ emissions of approximately 2,200 cars on U.S. roads. Under these same operating conditions, the site also could realize an annual fuel savings of more than \$790,000 at a natural gas price of \$3.75 per MMBtu.

GE's FlexEfficiency Advantage, which features the AGP solution, enables GE customers to deploy 21st century technology to their installed power generation assets and current operational demands. GE leverages the latest in thermodynamic design and its exclusive systems understanding to improve efficiency and output while maintaining low emissions. Since installing its first heavy-duty gas turbine in 1949, GE has amassed more than 25 terabytes of OEM engineering data, plus more than 93 million hours of real-world operating data. GE analyzes this vast repository of information daily to extract the fundamental, systems-based knowledge needed to optimize performance.

AGP technology is performing in 22 GE 7F gas turbines commissioned around the globe. Each has helped customers meet their changing market needs, including reduced emissions, lower operating costs and increased revenue generation.

- In Incheon, South Korea, Korea Southern Power Company, Ltd. (KOSPO) partnered with GE to install AGP upgrades on six 7F gas turbines at its Shinincheon plant to generate 130 MW of additional power, while reducing its NO_x emissions from 20 ppm to 9 ppm. With Korea's burgeoning economy driving higher power demand, the project is helping ensure the country's grid stability and providing a higher margin of reserve power, which had previously dipped as low as 4 percent during peak demand periods.
- Calpine Corporation's Los Medanos and Pastoria plants in California, and Westbrook facility in Maine, have experienced a 5.5 percent output increase since installing AGP technology on six GE 7F gas turbines. They also have experienced an approximately 1 percent improvement in site heat rates. This performance has better positioned the plants to bid more competitively for power demand, as well as capitalize on opportunities to capture additional revenue.
- In Alberta, Canada, TransCanada Energy Ltd.'s MacKay River cogeneration plant needed a solution to deliver more electricity and steam capacity, while maintaining high operational availability to support its nearly 24-hour-a-day manufacturing cycle. The upgrade currently is being installed and MacKay expects to increase its power output by 4.5 percent, while maintaining its low emissions footprint to remain aligned with Alberta's clean energy policies.

For more information and images, visit [GE's POWER-GEN International site](#).

To view GE's Advanced Gas Path press kit, please [click here](#).

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.

Follow GE Power & Water on Twitter [@GE_PowerWater](#).

###

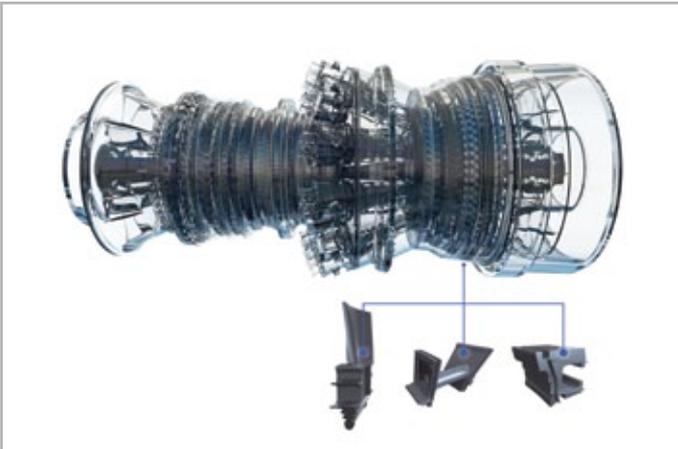
* Trademark of General Electric Company; may be registered in one or more countries.

For more information, contact:

Michael Goldstein
GE Power & Water
+1 678 844 6653
michael.goldstein@ge.com

Gina DeRossi or Ken Darling
Masto Public Relations
+1 518 786 6488
gina.derossi@mastopr.com
kenneth.darling@ge.com

See next page for related images.



AGP Assembly with components

The buckets, shrouds and nozzles for all three hot gas path stages of GE's 7F gas turbine feature design advancements that drive industry-leading upgrade performance in output, efficiency and asset/parts life.

For image files, please contact:

Gina DeRossi

Masto Public Relations

+1 518 786 6488

gina.derossi@mastopr.com



News Release

GE Aeroderivative Gas Turbines Tapped for Independent Power Project in Myanmar

- *One of the First Projects in Myanmar since the U.S. Government Lifted Sanctions*
- *Project to Help Meet Myanmar's Urgent Electricity Requirements*
- *Natural Gas Seen as a Key to the Country's Energy Future*
- *Project Expands GE's Growing Role in Supporting Myanmar's Future*

YANGON CITY, MYANMAR—December 11, 2012—GE (NYSE: GE) [aeroderivative gas turbine technology](#) has been selected for one of the first projects in Myanmar since the U.S. government recently lifted sanctions on U.S. investment in the country. A fast-track project, the new natural gas-fired power plant facility will enter commercial service no later than the second quarter of 2013 and will produce about 100 megawatts to help meet Myanmar's rapidly growing power requirements.

The project announced today further expands GE's role in helping Myanmar develop its infrastructure to support a growing society. GE Healthcare and GE Capital Aviation Services Limited also have announced other initiatives in Myanmar earlier this year.

GE will supply two [LM6000-PC Sprint](#) aeroderivative gas turbine-generators and technical advisory services for the plant, located in Alhone Township, Yangon City, Myanmar. Independent power producer TOYO Thai Power Corp. in Singapore (TTPSG) is the owner/operator of the plant and will sell the power to Myanmar's Ministry of Electric Power.

"Myanmar has abundant energy resources, most notably hydropower and natural gas, which can be tapped for power generation and oil and gas exploration," said Hironobu Iriya, president & CEO of TTPSG. "Due to the availability of natural gas, we expect that gas-fired combined-cycle projects will play an increasingly important role in increasing Myanmar's power supply to support the country's urgent need for more power."

Myanmar is planning to add 450 megawatts of gas-based capacity as part of an initiative to double the country's installed electricity capacity by 2015. Currently, more than 20 percent of the country's installed capacity is natural gas-based power generation.

"Gas-fired combined-cycle power plants can be delivered and installed to meet tight project schedules making this technology an excellent fit for addressing Myanmar's immediate electricity requirements," said Darryl Wilson, president and CEO—[aeroderivative gas turbines](#) for GE Power & Water. "In addition, the reliability and overall performance of these plants have been proven in thousands of applications worldwide."

GE's portfolio of innovative distributed power solutions gives businesses and communities around the world the ability to generate reliable and efficient power using a variety of fuels anywhere, whether on or off the grid. GE's distributed power solutions gives customers of all types—including industrial businesses, developing communities, government agencies managing disaster relief and other emergency power situations—the ability to generate reliable, sustainable power whenever and wherever it is needed. GE's distributed power portfolio includes [GE aeroderivative gas turbines](#), [Jenbacher and Waukesha gas engines](#) and [Clean Cycle waste heat recovery solutions](#).

GE's innovative LM6000-PC Sprint aeroderivative gas turbines operate at high efficiency, feature superior fuel consumption and flexibility and enable lower emissions and water usage compared to other units in their class. The technology is qualified under [ecomagination](#), GE's commitment to provide innovative solutions that maximize resources, drive economic performance and help make the world work better.

The LM6000 offers reliability of greater than 99 percent and availability of more than 97 percent, along with a high level of operating flexibility and proven dry low nitrous oxide (NO_x) emissions technology that guarantees NO_x emissions as low as 50 ppm at 15 percent Oxygen. The machine's high efficiency enables lower fuel consumption per unit of power output than competitive technologies, yielding fuel cost savings and carbon dioxide reductions for turbine operators.

The two LM6000-PC Sprint aeroderivative gas turbines for the TTPSG project will be equipped with modified nozzles to accommodate the medium BTU gas that will be the fuel for the plant. The gas turbines will be manufactured at GE facilities in Cincinnati, Ohio, and the gas turbine-generator sets will be packaged at GE's plant in Hungary.

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 helping to 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.

Follow GE Power & Water, its aeroderivative business and ecomagination on Twitter [@GE_PowerWater](https://twitter.com/GE_PowerWater), [@GE_Aero](https://twitter.com/GE_Aero) and [@ecomagination](https://twitter.com/ecomagination).

###

For more information, contact:

Rick Goins
GE Power & Water
+1-281-740-1422
richard.goins@ge.com

Gina DeRossi or Howard Masto
Masto Public Relations
+1 518 786 6488
gina.derossi@mastopr.com
howard.masto@ge.com

See next page for related images.



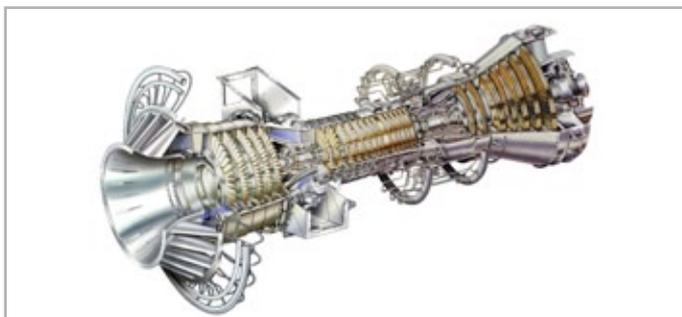
FlexAero LM6000-PC

GE's LM6000-PC aeroderivative gas turbine (above) will soon be generating power for the people of Burma. The LM6000-PC is a cornerstone of GE's ecomagination approved LM6000 fleet that provides up to 48 MW of fast, flexible, reliable and efficient power generation.



FlexAero LM6000

GE's LM6000 aeroderivative gas turbine fleet includes the new ecomagination approved LM6000-PH (above), which features 48 MW of fast, flexible, reliable and efficient power generation with no water for emissions control. The LM6000-PH, and its -PG variant, meet/exceed emissions standards as denoted by the GERD and Kyoto Protocols.



FlexAero LM6000-PC SPRINT

GE recently received contracts to supply two LM6000-PC SPRINT aeroderivative gas turbine-generators and technical advisory services for the first independent power plant in Myanmar.



FlexAero LM6000

GE's LM6000 aeroderivative gas turbine fleet celebrates its 20th year of fast, flexible, reliable and efficient power generation. The fleet includes the new ecomagination approved LM6000-PH (above), which features 48 MW of power generation with no water for emissions control. The LM6000-PH, and its -PG variant, meet/exceed emissions standards as denoted by the GERD and Kyoto Protocols.

For image files, please contact:

Gina DeRossi
 Masto Public Relations
 +1 518 786 6488
gina.derossi@mastopr.com



News Release

GE Introduces New Dust Control Solutions for Coal Handling Operations in North America

- *New PowerTreat* Series of Products Addresses Material Handling Needs at Coal Power Plants*
- *Increases Safety by Lowering the Risk of Spontaneous Combustion*
- *PowerTreat is Part of GE's CoalPlus* Portfolio*

ORLANDO, FLA.—December 11, 2012—GE (NYSE: GE) today introduced a new line of products in North America designed to maximize the value of coal brought into power plants by reducing material losses and mitigating fuel degradation brought about by oxidation. GE's new PowerTreat* portfolio of products includes capabilities to prevent fugitive dust emissions and promotes safe handling practices. GE made the announcement at this week's [POWER-GEN International 2012](#) trade conference in Orlando, Fla.

When coal is received at the power plant, a different set of material handling challenges arises, such as controlling fugitive dust without adding excessive amounts of water. [GE's PowerTreat](#) technologies reduce oxidation—significantly lowering the risk of hot spots, smokers and spontaneous combustion—and reduce dusting by up to 90 percent from unloading at the barge or railcar to the plant. PowerTreat also offers effective dust suppression with low moisture addition to the coal, which reduces calorific value penalties and decreases coal flow problems that result from wet coal conditions.

“As coal plants face challenges to meet or exceed environmental considerations, GE's PowerTreat program gives utilities more fuel consumption flexibility and the ability to burn challenging coal. This new line of products improves the quality of coal, while reducing dust and minimizing hazardous conditions such as spontaneous combustion and hot spots,” said John Schumann, general manager, chemical and monitoring solutions—water and process technologies for GE Power & Water.

Specifically, the PowerTreat products introduced include PowerTreat FD series, PowerTreat AD series and PowerTreat DA series. PowerTreat FD products are foaming agents used to provide high expansion ratio foam for suppressing dust at transfer points while minimizing moisture addition to the coal. PowerTreat AD products are patented anti-oxidants and dust control binders applied to coal that is directed to short term storage piles to inhibit oxidation of coal while controlling dust through agglomeration of fines. PowerTreat DA products are dust control binders applied to coal sent to short term or long-term storage. PowerTreat is part of GE's CoalPlus portfolio.

For more information and images, visit [GE's POWER-GEN International site](#).

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 Aero-derivative 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.

Follow GE Power & Water and its water business on Twitter [@GE_PowerWater](#) and [@GE_Water](#).

###

* Trademark of General Electric Company; may be registered in one or more countries.

For more information, contact:

Brian Castelli
GE Power & Water
+1 215 942 3051
brian.castelli@ge.com

Beth Coffman or Howard Masto
Masto Public Relations
+1 518 786 6488
beth.coffman@mastopr.com
howard.masto@ge.com



Lakeland Electric Projected to Save between 15 to 20 Percent of Coal Supply Costs Annually with GE's Coal Treatment Technology

- *GE's Chemical Treatment Technologies to Increase Flexibility and Efficiency in Coal-Fired Generation Operations*
- *Utility Savings on Coal Purchases Can be Passed through to Customers via Stable Rates*

ORLANDO, FLA.—December 11, 2012—The City of Lakeland, Fla., and its McIntosh Power Plant Unit #3, will save between 15 and 20 percent of coal supply costs per year by using GE's (NYSE: GE) innovative FuelSolv* coal treatment technology. FuelSolv is a portfolio of specialty chemical additives that minimize combustion challenges in the utility's coal-burning generator. The McIntosh Power Plant is part of the city's public power utility, [Lakeland Electric](#), which is the third largest public power utility in Florida with a total generation capacity of nearly 1,100 megawatts. Lakeland Electric serves around 120,000 customers and is a top quartile utility in terms of unit reliability and competitive electric rates.

A typical coal-burning power plant will spend approximately 70 percent of its operating budget on fuel. With the price of coal rising as it has, many power plants are looking to fuel their plants with lower cost and subsequently more difficult to burn coals in order to stay competitive. These changes in fuel and boiler operation may cause plants to experience an increase in ash slag deposits on the boiler walls, superheater and reheater tubes in their boilers, which reduces efficiency and increases operating costs due to tube failures, decreased heat transfer and increased maintenance costs. GE's [FuelSolv](#) is a fuel treatment program for deposit control that increases efficiency and reduces costs.

"As we see prices for bituminous coal increasing and natural gas prices decreasing, lower quality and lower priced 'harder-to-burn' coals make sense from a fuel cost perspective, but they present unique operational challenges for a power utility. GE offered a solution that allowed us to purchase less expensive coal, but burn it nearly as efficiently as our historical operations," said Ken Riddle, supervisor of chemical processes, Lakeland Electric.

FuelSolv, GE's portfolio of chemical additives, reduces slagging, which in turn allows for operating at maximum loads with minimal need to shut down for cleaning. Deposits that do form in the combustion zone are generally much easier to remove, which reduces the down time required to carry out mechanical cleaning.

Results from a pilot project estimate significant fuel cost savings. Depending on the mix of coals used, projected savings may be between 15 and 20 percent of coal supply costs per year for a 50 percent central Appalachian/50 percent opportunity fuel blend (these estimates are dependent upon current coal rates and whether the selected opportunity coal is northern Appalachian or Illinois basin bituminous coal).

In addition to the chemical additives, the plant also is utilizing GE's [Zonal* combustion monitoring](#) system to help improve boiler reliability and efficiency while reducing emissions. The combustion monitoring system provides real-time mapping of combustion quality to identify poor combustion zones and helps operators and engineers run the boiler at balance combustion conditions.

"As the demand for alternative fuel choices continues to increase, GE is committed to innovating solutions like FuelSolv and Zonal combustion monitoring for the power generation industry. This combination of products offers our customers flexibility and their fuel cost savings can ultimately be passed on to their customers," said John Schumann, global product manager—water and process technologies for GE Power & Water.

For more information and images, visit [GE's POWER-GEN International site](#).

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.

Follow GE Power & Water and its water business on Twitter [@GE_PowerWater](https://twitter.com/GE_PowerWater) and [@GE_Water](https://twitter.com/GE_Water).

###

* Trademark of the General Electric Company, may be registered in one or more countries.

For more information, contact:

Jennifer Seiler
GE Power & Water
+1 215 942 3140
jennifer.seiler@ge.com

Beth Coffman or Howard Masto
Masto Public Relations
+1 518 786 6488
beth.coffman@mastopr.com
howard.masto@ge.com

See next page for related images.



City of Lakeland McIntosh Power Plant

The City of Lakeland's McIntosh Power Plant, enabled by GE's FuelSolv technology, has experienced significant fuel cost savings by being able to alter their fuel choices.



City of Lakeland McIntosh Power Plant

A typical coal-burning power plant will spend approximately 70 percent of its operating budget on fuel. GE's FuelSolv treatment technology can help reduce those cost by up to 20%.

For image files, please contact:

Gina DeRossi

Masto Public Relations

+1 518 786 6488

gina.derossi@mastopr.com



News Release

GE Announces Zenith Controls ZT30 Automatic Transfer Switch

- *Maximizes System Uptime for Critical Power Applications*
- *Industry-Leading Fault Tolerance Simplifies Selective Coordination Design Process*
- *Minimal Footprint Provides Design Flexibility and Optimizes Space for Future Growth*

ORLANDO, FLA.—December 11, 2012—GE (NYSE: GE) announced that its Zenith Controls ZT30 UL 1008 listed 30-cycle automatic transfer switch (ATS) is now available. Designed to help maximize system availability in critical facilities, such as hospitals or data centers, the ZT30 helps to isolate a fault condition to restrict outages to the equipment affected and maintain power to critical equipment in the rest of the facility. The announcement was made at this week's [POWER-GEN International 2012](#) trade conference in Orlando, Fla.

"The National Electrical Code requires selective coordination of overcurrent protective devices in critical facilities to isolate a faulted circuit, while at the same time maintaining power to the rest of the electrical distribution system," said Samit Ranjan, president, GE Zenith Controls. "Our ATS is not only able to withstand and close-on to a fault, but also is able to supply power to the load after a fault event."

The ZT30 also has a Quick Make/Quick Break design that enables manual operation with the door closed, minimizing the operator's exposure to arc flash. A patented shutter door also is available which, when the ATS portion of a bypass switch is being tested or maintained, covers the live bus bars forming a barrier that protects maintenance personnel.

The ZT30 includes additional features such as an interchangeable source cable termination, 100 percent top or bottom cable entry and simple field configurable voltage selection that enable contractors to realize faster and easier installation. These customization capabilities enable design-consulting firms to create optimum system architecture plans.

GE's Digital Energy business is a global leader in protection and control, communications, power sensing and power quality solutions. Its products and services increase the reliability of electrical power networks and critical equipment for utility, industrial and large commercial customers. From protecting and optimizing assets such as generators, transmission lines and motors, to ensuring secure wireless data transmission and providing uninterruptible power, GE's Digital Energy business delivers industry-leading technologies to solve the unique challenges of each customer. For more information, visit <http://www.gedigitalenergy.com>.

For more information and images, visit [GE's POWER-GEN International site](#).

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.

Follow GE Energy Management and its Digital Energy business on Twitter [@GE_EnergyMgmt](#) and [@YourSmartGrid](#).

###

For more information, contact:

Margaret Hills
GE
Digital Energy
+1 905 927 5426
margaret.hills@ge.com

Matt Falso or Howard Masto
Masto Public Relations
+1 518 786 6488
matt.falso@mastopr.com
howard.masto@ge.com

See next page for related images.



GE Zenith Controls ZT30 UL 1008

GE announced that its Zenith Controls ZT30 UL 1008 listed 30-cycle automatic transfer switch is now available.

For image files, please contact:

Gina DeRossi

Masto Public Relations

+1 518 786 6488

gina.derossi@mastopr.com



Paul Browning

President & CEO,
Thermal Products,
GE Power & Water

[READ FULL BIO](#)



Fintan Tuffy

General Manager,
Fleet Analytics & Performance
Management,
Power Generation Services,
GE Power & Water

[READ FULL BIO](#)



Guillermo (Billy) Brooks

General Manager,
LM6000 Product Line,
Aeroderivative Gas Turbines,
GE Power & Water

[READ FULL BIO](#)



Mark Klaiber

Engineered Systems
Services Leader,
Water & Process Technologies,
GE Power & Water

[READ FULL BIO](#)

BIOS



Paul Browning

President & CEO,
Thermal Products,
GE Power & Water

Paul Browning is President & CEO of Thermal Products for GE Power & Water, overseeing the worldwide operations of GE's Heavy Duty Gas Turbine, Steam Turbine, Generator, Controls, Gasification and Concentrated Solar Power businesses. The global Thermal Products team is responsible for product development, sales, marketing, manufacturing, and installation of large scale electricity generating equipment.

Prior to his current position, Paul was most recently with Caterpillar Corp., as managing director, Caterpillar Motoren, based in Kiel, Germany. He was responsible for a global business in Caterpillar's Marine & Petroleum Power division.

Previously, Paul was the vice president of Turbomachinery Products in Caterpillar's Solar Turbines division. Within that division, he worked in commercial, manufacturing, and technical roles.

Paul began his professional career as a research engineer at the GE Research Center in Niskayuna, NY. He received a Bachelor of Science degree in mechanical engineering and materials science from Carnegie Mellon University and a Master's in mechanical engineering from Rensselaer Polytechnic Institute.

BIO



Fintan Tuffy

General Manager,
Fleet Analytics & Performance
Management,
Power Generation Services,
GE Power & Water

Fintan Tuffy is General Manager of the Fleet Analytics and Performance Management segment of GE's Power Generation Services (PGS) business. He is responsible for overseeing the development of service solutions for GE's installed base of Power Generation equipment around the world, leveraging analytics and new technologies that enable GE customers to operate their assets more efficiently.

Fintan has been with GE for 23 years holding a variety of technical, commercial, and operations leadership roles across various GE businesses.

He joined GE as part of the Field Engineering program, spending five years in the installation and maintenance of gas turbines segment in the Middle East and Asia. He subsequently moved to a sales role in Sydney, managing accounts across customers in the Australia and New Zealand region. He has also led GE's European parts operations based in Hungary, and most recently led the PGS business in Europe. He was named to his current role in October 2012.

Fintan earned a Mechanical Engineering degree from University College in Dublin, Ireland.

BIO



Guillermo (Billy) Brooks

General Manager,
LM6000 Product Line,
Aeroderivative Gas Turbines,
GE Power & Water

Billy earned his bachelor's degree in Mechanical Engineering from the Texas A&M University in 1987. Since joining GE Energy in early 1988, he has served in numerous technical and leadership positions. He started his GE career as a Field Engineer in Houston, and later moved into commercial roles as a Customer Service Manager and Generation Account Manager. In 1996, he was appointed General Manager for the Ohio Valley Region and in 1997 relocated to Mexico City as Regional Executive and General Manager for the Energy Mexico business. Moving to Atlanta in 1999, he served as General Manager, GE Energy Sales Integration, and then became the General Manager for Energy Services Commercial Operations. In 2003, he was named Global Sales Leader for the GE Optimization & Control business located in Minden, Nevada. In 2006, he was promoted to the role of Regional Executive for GE Energy Latin America relocating to São Paulo, Brazil. In 2009, he was promoted to O&G Account Director for the Americas with a dual role as the GE Energy Account Executive for ExxonMobil. In 2012, he accepted his current role as General Manager for the LM6000 product line. He and his family reside in his home town of Houston.

BIO



Mark Klaiber

Engineered Systems
Services Leader,
Water & Process Technologies,
GE Power & Water

Mark Klaiber is the Engineered Systems Services Leader for GE Power & Water, where he leads a global team of over 700 field service engineers to commission, operate, and repair GE Power & Water equipment at customer sites.

In this role Mark oversees the execution of \$340MM in long term Build Own Operate contracts. His other responsibilities include providing technical support and warranty administration for all GE Power & Water equipment product lines—as well as building the aftermarket services business to \$100MM+ in sales.

Prior to joining GE Power & Water in 2004, Mark held a variety of sales and services roles in GE Aviation Services, GE Industrial Systems, and GE Energy. His training and education within GE include the Edison Engineering Program, the Management Development Course, and Black Belt certification.

Mark received a Bachelor of Science degree in Mechanical Engineering from Penn State University in 1996 and a Master's degree in Business Administration from Emory University in 2003.

BIO