



Austria's Largest Cogeneration Plant Using Gas Engines Features GE's Jenbacher Technology

- *GE's J624 Two-Stage Turbocharged Gas Engines Represent Latest in Jenbacher Technology*
- *Flexibility, High Efficiency and High Reliability Key Reasons Energie AG Selected GE*
- *Project to Provide Heat to Customers and Power to Local Grid*

KIRCHDORF AN DER KREMS, AUSTRIA—June 3, 2013—The largest cogeneration plant powered by gas engines in Austria was recently commissioned in Kirchdorf an der Krems (Kirchdorf). [Energie AG Oberösterreich Wärme GmbH](#) (Energie AG) upgraded its district heating facility by replacing the existing steam turbines with three of GE's (NYSE: GE) latest Jenbacher J624 gas engines, allowing for greater flexibility and higher efficiency. Energie AG serves about 1,400 customers in the communities of Kirchdorf, Schlierbach and Micheldorf in Upper Austria.

"As our steam turbines reached the end of their life, we looked for a solution with a proven record for high efficiency, low emissions and flexibility. [GE's gas engine technology](#) was the best product for our requirements," said Dr. Andreas Kolar, CFO of the Energie AG and [managing board](#) of the Energie AG Wärme division. "Additionally, the J624's small size allowed for us to minimize the modifications and extensions to our building, saving us time and money and allowing us to continue to meet the needs of our customers."

Under the terms of the project, GE provided three [J624, two-stage turbocharged gas engines](#) to Integral Montage Anlagen – und Rohrtechnik Gesellschaft m.b.H., which handled the installation at Energie AG's site. GE's J624 gas engine has an output of 4.4 megawatts and is the world's first gas engine with two-stage turbocharging, providing high electrical efficiency (45.4 percent), thermal efficiency (43.7 percent) and overall efficiency (89.1 percent).

The J624 units, which are running on natural gas, offer customized hydraulic integration, which gives customers the ability to achieve their desired temperature level. Its quick start/stop sequences and automatic control (depending on thermal load), allow the unit to run to the customer's exact desired heat profile.

"For more than 60 years, our Jenbacher gas engines business has been driving technology forward as we develop solutions for the never-ending list of new technological challenges to stationary gas engines. The J624 two-stage turbocharged engines being used at the Energie AG's largest gas engine cogeneration plant in Austria represent the latest Jenbacher technology available today," said Karl Wetzlmayer, general manager—gas engines for GE Power & Water. "Energie AG selected our advanced technology for this important project, which will both provide heat to the town of Kirchdorf and electricity to the local grid."

With the new two-stage turbocharger, the output of GE's J624 gas engine has increased by 10 percent. The two-stage turbocharging is the enabling technology to increase the specific output and efficiency of the gas engine. This new technology offers significant output and efficiency advantages

under hot environment conditions, and it offers a higher total efficiency for combined heat and power applications.

All of GE's gas engines are high-speed engines running at 1,500 rpm and therefore have higher power density when compared to medium- and low-speed engines. Today, GE has delivered more than 2,600 [type 6 gas engines](#) worldwide, running on all types of gaseous fuels from pipeline gas to low BTU gas to high hydrogen gas.

GE's Jenbacher gas engines are part of GE's [ecomagination](#) portfolio. Ecomagination is GE's commitment to provide innovative solutions that maximize resources, drive efficiencies and make the world work better. To qualify for the portfolio, products and services must demonstrate both improved economic value and environmental performance.

GE's Jenbacher engine technology is part of the company's portfolio of innovative distributed power solutions, designed to give businesses and communities around the world the ability to generate more reliable and efficient power using a variety of fuels in diverse locations on or off the grid. GE's distributed power portfolio also includes [GE's aeroderivative gas turbines](#), [Waukesha gas engines](#) and [Clean Cycle waste heat recovery solutions](#).

About GE

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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. Power & Water's six business units include Distributed Power, 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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