

Press Release



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MTU Onsite Energy brings gas power solutions to North America

- **Reliable, highly efficient, low-emission and cost-effective power generation**
- **Suited for a variety of applications, including farm operations, hospitals, universities and manufacturing**
- **Efficiency rates above 90 percent with cogeneration and trigeneration**
- **Gas engines Series 400 up to 360 kWe**
- **Gas engines Series 4000 up to 2,100 kWe**
- **Full fuel gas flexibility**

HOUSTON / FRIEDRICHSHAFEN, Germany, June 20, 2012 — MTU Onsite Energy, the global Tognum Group brand of distributed energy systems, will now offer continuous power systems in North America. These systems generating electricity and heat (CHP) run on natural gas, biogas, sewage gas or landfill gas and have been successfully installed in Europe and Asia for more than 35 years. The wide range of usable fuels opens the way to a large number of applications, such as farming operations, municipal buildings, hospitals, campuses and manufacturing facilities.



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“Due to the population and the parallel economic growth we will have a constantly rising demand for energy all over the world, and this technology means that electricity and heat can be generated onsite where they are needed — reliably, extremely efficiently and in an environmentally friendly way,” said Ulrich Kemnitz, executive vice president for Onsite Energy at Tognum AG. “This is an important contribution for the future world’s sustainable development.”

The CHP process, also known as combined heat and power, is one of the ways for businesses and other large facilities to control costs for heating, lighting and cooling, because it employs technology that extracts multiple forms of usable energy from a single fuel source: electrical power via a generator and thermal power thanks to the exhaust heat from the engine. “This means we can achieve efficiency rates above 90 percent and are able to utilize virtually all of the energy present in the gas,” explained Kemnitz. Compared to the use of separate heat and power systems, CHP is beneficial for the environment, thanks to its utilization of alternative fuels, low emissions and reduced overall fuel usage. MTU Onsite Energy CHP systems can create any combination of heat and electricity for applications that have a simultaneous need for electrical and thermal power for more than 8,000 hours per year.

“Most packaged CHP systems are based on gas turbines or gaseous-fueled reciprocating engines,” said Stefan Kohler, senior manager, North American sales, MTU Onsite Energy. “Gas turbines have typically been favored for very large applications, but natural gas or biogas reciprocating engines have the



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flexibility to power applications from 100 kW to 5 MW at a lower cost. Our proven CHP systems are designed to be complete solutions for our customers' environmental and business needs.”

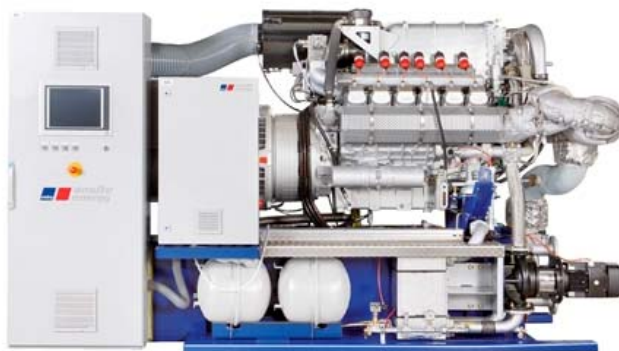
Two models of the MTU Onsite Energy CHP system are available in North America. The compact Series 400 model, which is fueled by natural gas, biogas, landfill gas or sewage gas, produces 128 to 358 kWe. The larger Series 4000 model produces 764 to 2,135 kWe and is fueled by natural gas. The electric power can be used to power some or all of the electricity needed by a facility. An exhaust heat exchanger is used to capture the high-quality heat from the exhaust system. Additional heat can be captured from the engine's cooling system. This heat can be used to make hot water or low-pressure steam for a wide variety of uses, such as space heating, food processing, wastewater treatment or swimming pool heating.

The CHP system is also able to produce a combination of power, heat and cooling, or trigeneration. The lower-temperature heat from the reciprocating engine's cooling system in the CHP system is especially suited for powering an absorption chiller — which uses heat energy to produce cooling.

MTU Onsite Energy is offering its CHP systems through a network of authorized distributors throughout the United States, Canada and Mexico.



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MTU Onsite Energy gas power solutions for cogeneration include the Series 400 model, which produces 128 to 358 kWe and generates electricity and heat from natural gas, biogas, sewage gas or landfill gas.



MTU Onsite Energy gas power solutions for cogeneration include the Series 4000 model, which produces 764 to 2,135 kWe and is fueled by natural gas.



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⇒ **Additional press photos can be downloaded from the Tognum website under www.tognum.com/press/press-pictures/**

About Tognum America

Tognum America (formerly MTU Detroit Diesel) is a Tognum Group company and is responsible for the manufacture, sales and support of MTU and MTU Onsite Energy branded products in North and Latin America.

With its two business units, Engines and Onsite Energy, the Tognum Group is one of the world's leading suppliers of engines and propulsion systems for off-highway applications and of distributed power generation systems. These products are based on diesel engines with up to 9,100 kilowatts (kW) power output, gas engines up to 2,150 kW and gas turbines up to 45,000 kW.

The product portfolio of the Engines business unit comprises MTU engines and propulsion systems for ships; for heavy land, rail and defense vehicles; and for the oil and gas industry. The Onsite Energy business unit supplies distributed power generation systems carrying the MTU Onsite Energy brand. These comprise diesel engines for emergency power, prime power and continuous power, as well as cogeneration power plants based on gas engines and gas turbines that generate both power and heat. Tognum's product portfolio also features fuel-injection systems built by L'Orange.

In 2011, Tognum generated revenue of around €2.97 billion and employs approximately 10,000 people. Tognum has a global manufacturing, distribution and service structure with 23 fully consolidated companies, more than 140 sales partners and more than 500 authorized dealerships at approximately 1,200 locations. Since September 2011, Engine Holding GmbH, a joint venture between Daimler AG and Rolls-Royce Group plc, has a majority holding in Tognum.

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