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New MTU 10V 1600 engine brings fuel efficiency, low emissions to key MTU Onsite Energy generator sets

The new MTU 10V 1600 Tier 2 engine replaces the venerable Detroit Diesel Series 60 in the important 450 kW to 500 kW power node.

Mankato, MN – [MTU Onsite Energy](#) is using the new MTU 10V 1600 engine to boost the fuel efficiency and lower exhaust emissions in its new 450 kW and 500 kW standby-rated Series 1600 generator sets. The 10-cylinder EPA Tier 2 engine is the latest configuration of the Series 1600 diesel engine family from MTU that also includes a 12V, an 8V and a 6-cylinder inline used in other power generation nodes. As a replacement for the venerable Detroit Diesel Series 60, the MTU 10V 1600 engine has been specifically designed to deliver exceptional reliability, high power density and fuel efficiency in emergency standby, prime power and peak-shaving applications.

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“Generator sets in the 450 kW to 500 kW power node play a very important role in the onsite power market,” says Al Prosser, director of sales. “This node fits the onsite power requirements of a broad category of commercial facilities, and generator sets based on the Series 1600 10V will provide these facilities with the most technically advanced diesel generators available.”

The new 450 kW Series 1600 10V generator set has a standby rating of 450 kW and a prime rating of 400 kW. The new 500 kW Series 1600 10V generator set has a standby rating of 500 kW and a prime rating of 450 kW. Both generator sets come with many standard features that previously required custom ordering. For example, all Series 1600 generator sets feature a redesigned outlet box that incorporates both the circuit breaker and control panel, providing the flexibility to mount the control panels and breakers to the right or left depending on the need. The design also allows the main circuit breaker to be installed in a compartment on the right or left side. This is a standard design feature that previously would have required custom engineering.

The Series 1600 generator sets also have an improved electrical stub-up for easier installation compared to previous generator sets in this power range. In addition, the outlet box is mounted directly to the base of the unit, which subjects the components to less vibration, extending their longevity.

“The ISO 8528-5 testing for transient response has proven these generator sets have remarkable load acceptance. Our engines are rated at 85 percent load factor (Emergency Standby Power), as compared to the much lower 70 percent load factor limit stated by the ISO 8528-1 standard,” says Prosser. “This performance at a higher load factor translates into greater power availability for a given kW rating. These generators also meet all applicable UL requirements, and are tested for NFPA 110 one-step-rated load acceptance.”

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(MTU-8174)

New 450 kW and 500 kW generator sets powered by the new MTU 10V 1600 engine feature exceptional reliability plus high power density and fuel efficiency for emergency standby, prime power and peak-shaving applications.

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MTU Onsite Energy Corporation

MTU Onsite Energy Corp. (formerly Katolight Corporation) is a leading producer of diesel-powered generator sets from 30 to 3,250 kW and natural gas-powered generator sets from 20 to 400 kW for standby, prime power and cogeneration applications. The company also provides automatic transfer switches, paralleling switchgear, controls and accessories for complete power system solutions. Based in Mankato, Minnesota, MTU Onsite Energy Corp. combines the expertise of Katolight and MTU Detroit Diesel Power Generation under one brand to meet the ever-increasing distributed power needs of customers in North America and around the world. MTU Onsite Energy Corp. is part of the Tognum Group's business unit, Onsite Energy and Components. For more information, visit www.mtu-online.com

Tognum

With its two business units, Engines and Onsite Energy & Components, the Tognum Group is one of the world's leading suppliers of engines and propulsion systems for off-highway applications and of distributed energy systems. These products are based on diesel engines with up to 9,100 kilowatts (kW) power output, gas engines up to 2,150 kW, stationary fuel cells up to 345 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 portfolio of the Onsite Energy & Components business unit includes distributed energy systems of the brand MTU Onsite Energy and fuel-injection systems from L'Orange. The energy systems comprise diesel engines for emergency standby power, prime power and continuous power, as well as cogeneration power plants based on gas engines, fuel cells and gas turbines that generate both power and heat.

In 2009, Tognum generated revenue of €2.5 billion and employs more than 8,700 people. Tognum has a global manufacturing, distribution and service structure with 27 fully consolidated companies, more than 140 sales partners and over 500 authorized dealerships at approximately 1,200 locations. The shares of Tognum AG (ISIN: DE000A0N4P43) have been stock-exchange listed since 2007 and are included in the MDAX.

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