

CASE STUDY

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April 6, 2011

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Emergency power system meets stringent load acceptance requirements of new surgery center

St. Joseph's Healthcare Hamilton chooses MTU Onsite Energy Series 1600 generator sets for 2 x 550 kW standby power with exceptional transient response.

HAMILTON, Ontario—St. Joseph's Healthcare Hamilton (SJHH), a teaching hospital affiliated with McMaster University, is known as a regional "center of excellence" for a variety of surgical specialties--thoracic, kidney and urinary, vascular and head and neck--as well as minimally invasive surgery and surgical robotics research. With a 120-year history of caring for the communities surrounding Hamilton, [SJHH](#) recently expanded its specialties with a new three-story Surgical/Perioperative Tower. The tower's 100,000-plus square feet of new construction and renovation features new surgical rooms, post-anesthesia care beds, a day surgery center and sterile-processing department.

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The sensitive electronic equipment in SJHH's new unit requires equally sophisticated electrical backup power. [The MTU Onsite Energy](#) Series 1600 generator sets are specifically designed to accept changes in loads with minimal voltage and frequency dips. This transient response--or ability to respond quickly to variations in loads--ensures that surgical procedures and patient safety will not be compromised in the event of a power failure.

"The engineering specifications for SJHH's power system were very precise because of the criticality of the hospital application," said Scott Boumeester, director of off-highway sales for [Harper Power Products](#), the local MTU Onsite Energy distributor headquartered in Toronto. "The system needs to supply a steady, dependable level of power even as the load on the system changes."

Power system meets code-required electrical standard

The MTU Onsite Energy power system consists of two 550 kW generator sets that meet the electrical requirements of the Canadian Standard Association's CSA 282/32. This standard mandates that the units provide power at a steady state within three seconds after 75 percent of the load is applied.

Each [generator set](#) is powered by a 12-cylinder Series 1600, the latest diesel engine from MTU and the first ever in its power range designed from the ground up for power generation applications. The generator drive engine is designed with greater cylinder displacement per horsepower compared with other engines, giving it more built-in reserve capacity to handle changing loads. Standard features include EPA Tier 2 certification, ISO 8528-5 compliance at 85 percent load factor, NFPA 110 one-step load acceptance and UL recognized digital control panels.

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The new Perioperative wing is part of a complete redevelopment of St. Joseph's Healthcare Hamilton. With advances in medicine, surgical facilities and emergency standby systems, the hospital continues to fulfill its mission of excellent care for residents of Hamilton and the surrounding area.

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At the new surgical tower at St. Joseph's Healthcare Hamilton, MTU Onsite Energy generator sets provide steady, dependable backup power even as the load on the system changes.



Two MTU Onsite Energy 550 kW Series 1600 generator sets meet stringent load acceptance requirements at the new Surgical/Perioperative Tower, St. Joseph's Healthcare Hamilton.

(MTU-8199)

MTU Onsite Energy Corporation

MTU Onsite Energy Corp. 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 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 and gas turbines that generate both power and heat.

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In 2010, Tognum generated revenue of around €2.56 billion and employs more than 9,000 people. Tognum has a global manufacturing, distribution and service structure with 25 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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