

STANDBY POWER/HEALTHCARE

ST. JOSEPH'S HEALTHCARE HAMILTON



- // **Where:** Hamilton, Ontario, Canada
- // **What:** MTU Onsite Energy Series 1600 generator sets for 2 x 550 kW standby power
- // **Why:** To support surgical procedures and ensure patient safety, generator sets are designed to accept changes in loads with minimal voltage and frequency dips

REGIONAL HOSPITAL'S NEW SURGICAL WING REQUIRES SOPHISTICATED ELECTRICAL BACKUP POWER GENERATOR SETS MEET STRINGENT LOAD ACCEPTANCE REQUIREMENTS TO ENSURE PATIENT SAFETY

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.

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."

"The engineering specifications for SJHH's power system were very precise because of the criticality of the hospital application. The system needs to supply a steady, dependable level of power even as the load on the system changes."

// // // Scott Boumeester, director of off-highway sales, Harper Power Products



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.

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 the 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.

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.



For More Information:
(866) 787-3271
Sales@PTSdcs.com

MTU Onsite Energy Corporation
 100 Power Drive
 Mankato, MN 56001 USA
 Phone: +1 800 325 5450
 +1 507 625 7973
 Fax: +1 507 625 2968
 powergenregion3@mtu-online.com



MTU Onsite Energy Corp. (formerly Katolight Corporation) is a leading producer of diesel-powered generator sets from 30 kW to 3,250 kW and natural-gas-powered generator sets from 30 kW 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.

MTU Onsite Energy Corp., a Tognum Group company based in Mankato, Minnesota, combines the expertise of Katolight and MTU Detroit Diesel Power Generation 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.