

POWER PROJECTS



SUDBURY DISTRICT ENERGY LAURENTIAN HOSPITAL CO-GEN PLANT SUDBURY, ONTARIO



Duration: 2000-2002

Power: 6.9-MWe Prime, 4.7-MWt Embedded

Toromont Cat Power Systems constructed a co-generation plant inside of the Sudbury Regional Hospital (Laurentian Site) on behalf of Sudbury District Energy Corporation at Sudbury, Ontario. The 6.9-MWe of electrical power is connected to the hospital's electrical system and excess generated power is exported to the local utility's grid. The thermal power (4.7-MWt capacity) of steam and hot water is used within the hospital complex for heating, disinfection, humidification and cooling through the use of an absorption chiller. The plant consisted of two 3.45-MWe reciprocating engine-generator sets, thermal heat transfer equipment, thermal heat rejection equipment, medium voltage switchgear, motor control centres, control panels, utility interconnection (protection, metering, communications), building envelope and building systems and remote control and monitoring (SCADA).

Toromont was required to provide design services for the electrical installation of the power generation equipment and the development of PLC programming for the control and monitoring systems.

General Inquiries: powersystems@toromont.com

Website: www.toromontpowersystems.com

1-877-CAT POWER

