

POWER PROJECTS



SUDBURY DISTRICT ENERGY CENTRAL UTILITIES PLANT SUDBURY, ONTARIO



TOROMONT ENERGY LTD.

POWER: 5.0-MWe Prime, 10.3-MWt Distributed

Formed in 1998 Sudbury District Energy is a public/private relationship between the City of Sudbury, Greater Sudbury Hydro and Toromont Energy.

The 5.0-MWe of electrical power is connected to the local utility's grid. The thermal power (10.3-MWt capacity) is distributed by 2.5 km of underground insulated piping to heat 7 office/municipal buildings in the downtown area. The plant consists of two 2.5-MWe reciprocating engine-generator sets, three 2.0-MWt step fired natural gas boilers, thermal heat transfer equipment, thermal heat rejection equipment, medium voltage switchgear, motor control centres, control panels, utility interconnection, electrical substation, building envelope, building systems, and remote control and monitoring (SCADA).

The result of this unique arrangement is Northern Ontario's first ever district energy co-generation facility – its purpose to provide heating, cooling and power requirements for many public and private sector buildings in Sudbury's downtown core.

Some of the benefits Sudbury will derive from this facility are greater energy self sufficiency, decreased energy consumption through a more efficient system, establish Sudbury as an energy leader in Northern Ontario and improve the city's economic development opportunities.

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