

POWER PROJECTS



WARDEN ENERGY CENTRE MARKHAM, ONTARIO



Owner: Markham District Energy Inc.. Commercial Operation on June 2, 2008

Markham District Energy Inc. (MDEI) contracted Toromont Cat Power Systems to undertake a turnkey project for a natural gas fuelled combined heat and power plant to support a district energy system in the Town of Markham for the purposes of electricity generation and heat recovery.

The 5.2 MW plant facility consists of two Caterpillar G3612 natural gas driven reciprocating engine generator sets; jacket water; after cooler; oil cooler and exhaust heat recovery systems; waste heat rejection systems; natural gas fuel systems; compressed air systems; ventilation systems; high and low voltage switchgears; power transformers; motor controls; plant controls and automation.

The Warden Energy Centre is a natural gas fired 5 MW combined heat and power facility that will be integrated into the existing district energy system operated by Markham District Energy. In addition to electricity production, the thermal energy recovered from the facility will be used to heat and cool the Markham downtown core, known as the Markham Centre, consisting of commercial, residential and institutional buildings.

Electricity from the facility is delivered to the local distribution grid. Recovered heat in the form of hot water is supplied to a district energy system. The site currently owned by the Town of Markham has been leased by Markham District Energy to develop the facility. The key components of the facility include two low emissions natural gas reciprocating engine generator sets.

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