

POWER PROJECTS



TOROMONT CAT – ONTARIO ELECTRICITY FINANCIAL CORPORATION – TEMPORARY POWER PROJECT GREATER TORONTO AREA, ONTARIO



Duration: June – July 2003

Power: 115 MWe Peak Shaving

Ontario Electricity Financial Corporation (OEFC) contracted Toromont Cat Power Systems to execute, under an intensely compressed schedule, the design, construction and commissioning of three temporary natural gas power generation facilities to help sustain the Ontario electricity grid during potential peak-period power shortages.

The project was executed at three different sites in the Greater Toronto Area. The Markham site, which utilizes natural gas turbine generation was constructed with a capacity of 98.8 MWe. The Concord and Beare Road sites each utilized natural gas reciprocating engine technology with power capacities of 8.75 and 7.5 MWe respectively. Under the compressed schedule as mandated by OEFC, 115 MWe of capacity was designed, built and constructed in an eight week period. Each site required site preparation and earthworks, installation of electrical ground grids, installation of natural gas metering stations, installation of high pressure and low pressure natural gas piping, and installation of natural gas train assemblies, installation of high voltage overhead pole lines, procurement and installation of electrical transformation from utility voltage to generator voltage, provision of electrical interconnection cabling for power, communications and signals, development and installation of utility protection schemes as required, installation of site fencing and security; and assembly of generation equipment, exhaust systems, ventilation systems, etc.

The duration of the project was 8 weeks from the approval to proceed to the generation of power. The project was delivered on schedule and on budget.

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