



Conestoga-Rovers & Associates Project Summary

KEY PROJECT ELEMENTS

- Detailed Design
- Approvals
- Construction Services
- Commissioning
- Landfill Gas to Energy System
- Utility Interconnection
- Electricity Generation

SARNIA LANDFILL GAS TO ENERGY PROJECT SARNIA, ONTARIO



OWNER: BLACKWELL RENEWABLE ENERGY INC.
DURATION: SPRING 2007 TO FALL 2007

Blackwell Renewable Energy Inc., an affiliate of Bluewater Power Generation Corp. contracted Toromont Power Systems (Toromont) to undertake a turnkey project to utilize available landfill gas from the Sarnia Landfill in the City of Sarnia for the purposes of electricity generation.

Toromont retained CRA Contractors Ltd. (CRACL) to undertake the design activities, construction, and installation of a landfill gas utilization facility.

CRACL's scope of work included geotechnical investigation, plant foundation design, fuel gas conditioning system design, electrical systems design, and utility interconnection design. Furthermore, CRACL was responsible for overseeing and undertaking all on-site construction activities and mentoring the plant commissioning process.

The project involved the installation of one modular Caterpillar G3520C 1.6 MW generator set, landfill gas conditioning module, electrical module, and electrical switchgear. Civil work included excavation, granular placement, and grading for the equipment compound area. Mechanical work included the installation of above ground landfill gas piping and supports as well as the rigging and complete mechanical installation of all equipment. Electrical work included the installation of electrical equipment, instruments as well as power, and control wiring to support the export of electrical power.

GENERAL INQUIRIES:
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WEB SITE:
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