

COMMERCIAL PROJECTS



Project: Fletcher Business Park
930,000 Sq. Ft.
Industrial/Commercial warehouse and office

Scope of Work: 640 Premier Efficiency Collectors. The largest installation of solar thermal heating and cooling technology in the world. System includes 1.6 miles of piping, one mile of custom fabricated steel support for collectors and a 27,000 gallon water storage tank.

Project Status: Installed in December 2008

Project Partners: Vanir Energy



Project: Confederation Place Hotel, Kingston, Ontario
96-room, full service hotel
Domestic hot water and seasonal pool heating

Scope of Work: 20 Premier Efficiency Collectors, expandable to 40
Energy Terminal

Estimated Annual Output: 49,107 kWh/year

Energy Displaced: Natural gas

Estimated Cost of Solar Energy Supplied (after rebates):
25 years: 57¢/therm or 20¢/m³ (equivalent)

Estimated GHG Reduction: 15,116 kg/year

Project Status: Operating since November 2005

Project Partners: Quantum Renewable Energy



Project: Green Phoenix Apartments, Toronto, Ontario
Domestic hot water preheat

Scope of Work: 40 Premier Efficiency Collectors and
Energy Terminal
Installation and project management

Estimated Annual Output: 79,233 kWh/year

Energy Displaced: Natural gas

Estimated Cost of Solar Energy Supplied (after rebates):
25 years: 65¢/therm or 23¢/m³ (equivalent)

Estimated GHG Reduction: 24,392 kg/year

Project Status: Installed in October 2008

Project Partners: Glenbarra Energy (project management)
G.O. Tap Mechanical (plumbing); Meehan's (structural);
Tak (structural engineering); Takric (mechanical engineering)

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Project: William Fremd High School,
Palatine (Chicago area), Illinois
Indoor swimming pool heating
Scope of Work: 100 Premier Efficiency Collectors
Project management
Estimated Annual Output: 270,416 kWh/year
Energy Displaced: Natural gas
Estimated Cost of Solar Energy Supplied (after rebates):
25 years: 65¢/therm or 23¢/m³ (equivalent)
Estimated GHG Reduction: 83,249 kg/year
Project Status: Commissioned September 2008
Project Partners: General Energy



Project: Toronto Hospital for Sick Children
Domestic hot water
Scope of Work: 92 Premier Efficiency Collectors and
Energy Terminal
Turnkey installation
Estimated Annual Output: 205,000 kWh/year
Energy Displaced: Natural gas
Estimated Cost of Solar Energy Supplied (after rebates):
25 years: 68¢/therm or 24¢/m³ (equivalent)
Estimated GHG Reduction: 63,110 kg/year
Project Status: Installed in Spring 2009
Project Partners: Mondial Energy under PPA agreement;
Glenbarra Energy (project management)



Project: Frito-Lay, Dallas, Texas
Domestic hot water
Scope of Work: 44 Premier Efficiency Collectors
Estimated Annual Output: 126,161 kWh/year
Energy Displaced: Natural gas
Estimated Cost of Solar Energy Supplied (after rebates):
25 years: 91¢/therm or 32¢/m³ (equivalent)
Estimated GHG Reduction: 38,839 kg/year
Project Status: Installed in January 2008
Project Partners: Class One Solutions