

Agincourt Recreation Centre

166 kW_t Solar Pool Heating

BACKGROUND

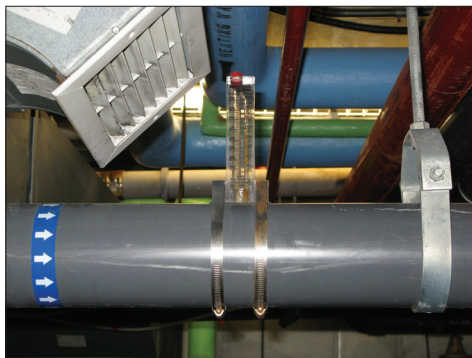
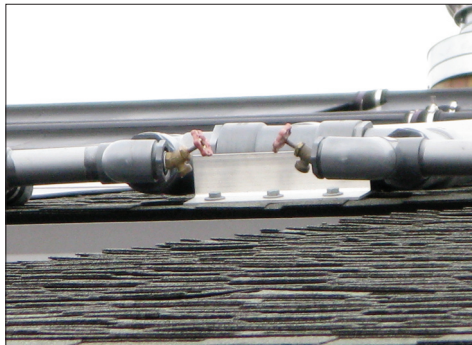
The City of Toronto chose to install a 166 kW_t solar pool heating system at the Agincourt Recreation Centre to collect heat from the sun and deliver it to the indoor swimming pool. Designed to reduce the need for a conventional natural gas pool heating system, the system will function during the Spring, Summer and Fall when there is no risk of freezing.

MONITORING

A flow meter was installed during Summer 2011 that will enable more accurate data measurement.

FINANCIAL

The City of Toronto, through the Energy Retrofit Program, funded 61% of the project with Natural Resources Canada contributing \$13,375 and the Toronto Atmospheric Fund contributing \$26,393 towards monitoring and reporting.



Project Overview

Owner: City of Toronto
 Address: 31 Glen Watford Dr, Scarborough
 Building type and use: Indoor City Pool
 System type: Solar Pool Heating
 System power rating: 166 kW_t
 Installation date: November 2006
 Installer: Optimira Energy

System Configuration

System surface area: 237 m²
 Collector manufacturer: 54, Techno Solis T5-48-sm (4'x12') unglazed collectors

Annual Performance

Estimated: 90,950 kWh_t

Financial

System Cost: \$101,798
 Grants: \$39,768
 Net System Cost: \$62,030
 Cost per kW_t (excluding external funding): \$613
 Annual Cost Savings: \$3,000*
 Simple payback (excluding external funding): 33.9 years

Environmental Benefits

Estimated emission reduction: 15.9 tonnes eCO₂/yr**

*based on 35 ¢/m³

**based on 1.86 kg eCO₂/m³

For more information, contact:

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