BACKGROUND
The City of Toronto chose to install a 172 kWt solar pool heating system at the Centennial 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.

For more information, contact:
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Project Overview
Owner: City of Toronto
Address: 1967 Ellesmere Road
Building type and use: Indoor City Pool
System type: Solar Pool Heating
System power rating: 172 kWt
Installation date: November 2006
Installer: Optimira Energy

System Configuration
System surface area: 246 m²
Collector manufacturer: 56, Techno Solis T5-48-sm (4’x12’) unglazed collectors

Annual Performance
Estimated: 85,230 kWh

Financial
System Cost: $101,798
Grants: $39,768
Net System Cost: $62,030
Cost per kWt (excluding external funding): $413
Annual Cost Savings: $2,781*
Simple Payback (excluding external funding): 36.6 years

Environmental Benefits
Estimated emission reduction: 14.8 tonnes eCO₂ /yr**
*based on 35 ¢/m³
**based on 1.86 kg eCO₂/m³

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