



for Gaz Métro Customers

FINANCIAL ASSISTANCE FORM

SOLAR HEATING PROGRAM

For the installation of solar water heating collectors

Write in block letters

Foreword

This form will help you prepare the file supporting your application for financial assistance from the Energy Efficiency Fund (EEF) for the implantation of a solar air heating system.

This program is available to housing cooperatives, non profit housing cooperatives, and social community organizations servicing low income clients whose building is heated by natural gas.

The solar heating systems installed must use only panels approved by the program.

All the panels which were recognized by the old ecoENERGIE Renewable Heat program from Natural Resources Canada (NRCan) at its closure, on October 1st, 2010, are accepted for the EEF program. Any other panel which was not recognized in the NRCan's list needs to be certified by the Canadian Standards Association (CSA) to be admissible.

It is possible to verify the admissibility of a solar panel by contacting the EEF Social community Advisor, at 514 719-8154.

The electronic file with the simulation done with **RETScreen** or **Swift** software must be emailed to info@fee.qc.ca at the same time as this form.

TO SUBMIT YOUR FILE

Gaz Métro - Energy Efficiency Fund

Social community Programs
1717 du Havre
Montreal, Quebec
H2K 2X3

By fax: 514 719-8207

For more information, contact us

Montreal area: 514 529-2216
Elsewhere in Quebec: 1 866 529-2216
www.fee.qc.ca
info@fee.qc.ca

Important

The present request must be signed by the applicant, who also needs to confirm that he has read the notice and that he understands its terms.

The Energy Efficiency Fund reserves the right to request further information. Incomplete files will not be considered. A visit from an EEF representative or an external auditor may be necessary in order to verify existing conditions before work and/or conformity once project is completed. Consult our Web site at www.fee.qc.ca to learn the terms and conditions of this program.

Notice

The EEF reserves the right to:

- amend or cancel the program without notice;
- interpret the terms and conditions of the program;
- refuse any proposal that does not meet the program criteria.

The customer agrees that:

- any inaccurate declaration could result in cancellation of the financial support, in which case the EEF could claim a refund of the assistance paid;
- the program may be evaluated at the request of the EEF or a third party mandated by the EEF;
- the EEF may visit the site to verify that the energy efficiency measures for which the financial assistance has been paid have been implemented;
- the following information may be disclosed about the project: type and description of building, reference consumption, eligible project costs, anticipated or actual savings and amount of financial assistance paid.

Section A. Applicant – owner of installed system and intended recipient of the financial assistance from the EEF		
Salutation: <input type="checkbox"/> Mr. <input type="checkbox"/> Ms.		Preferred Language: <input type="checkbox"/> French <input type="checkbox"/> English
Last Name:		First Name:
Title:		
Organization's Name:		
Applicant's Mailing Address:		
City:	Province/Territory:	Postal Code:
Telephone: () -		Fax: () -
E-mail:		Cell phone: () -
Type of Organization:		

Section A. 1 Eligible Buildings
In what type of building will the system be installed? <input type="checkbox"/> Housing cooperative <input type="checkbox"/> Non profit housing cooperative <input type="checkbox"/> Social community (specify)
Number of storeys:
Is it a units building? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, how many units does it count?

Section B. Proposed Project
B.1.a Sketch
The Applicant must attach a detailed sketch of the system which includes the dimensions of the collector(s), collector layout and system interface with the auxiliary heating system (if applicable).
B.1.b Simulation Output Report
Applicants must attach the results of the simulation to this form in addition to sending the electronic file of the simulation by email info@fee.qc.ca .
Simulation Output Report generated using: <input type="checkbox"/> F-Chart <input type="checkbox"/> WATSUN <input type="checkbox"/> RETScreen <input type="checkbox"/> T-Sol <input type="checkbox"/> Polysun <input type="checkbox"/> Enerpool <input type="checkbox"/> TRNSYS

Section B. 2 Project Building – where the solar system will be installed		
Project Installation Address:		
City:	Province/Territory:	Postal Code:
Project Name (if applicable) :		
Gaz Métro Account N ^o :		
Specify where the solar collector(s) will be installed in relation to the building?		
Is the building owned by the Applicant? <input type="checkbox"/> Yes <input type="checkbox"/> No		
If not:		
- Describe the relationship between the Applicant and the building owner.		
- Please attach the proof of permission to install a solar energy system on the building. Did you attach the permission? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Is a building permit required for this project? <input type="checkbox"/> Yes <input type="checkbox"/> No		
If yes, has it been obtained? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Issued by:	Date of issue: / / (yyyy/mm/dd)	
If not, explain:		
Describe the primary use of the building (e.g. chicken barn, storage, rental unit, etc.)		
The solar system has been installed on:		
<input type="checkbox"/> an existing building		
<input type="checkbox"/> a building expansion		
<input type="checkbox"/> a new construction		
Building footprint (area) : m ²		
x Building height : m		
= Building volume : m ³		
Construction year:		
Other:		
Describe any shading that may affect sun exposure to the solar collectors at any time of year (e.g. adjacent buildings, tall trees).		
Is there any access to the natural gas pipeline network or electrical power grid? Select the applicable options:		
<input type="checkbox"/> Yes, natural gas pipeline network		
<input type="checkbox"/> Yes, electrical power grid		
<input type="checkbox"/> No, none of the above		
Estimated annual water heating load to which the qualifying solar heating system will contribute: (GJ/year)		
Annual estimated contribution of the solar heating system: (%)		
If the total load is unknown, what is the annual energy cost? (\$/year)		

Section B. 3 Solar Energy System – General Data

Is the solar energy system part of a larger project? Yes No

If yes, explain (Attach an explanation sheet, if necessary.):

What type of system is it?

- new installation
 retrofit
 expansion of an existing system

Percentage use of the solar energy system:

- % space heating/ventilation
 % hot water for general use (e.g. washrooms and showers)
 % industrial process
 % heating for swimming pool
 % other (please specify)

The above percentages must total 100 %.

Expected date for the commissioning of the solar energy system: / / (yyyy/mm/dd)

Section B. 4 Solar Collector(s)

Collector type (You must select one.):

- Unglazed
 Glazed flat-plate
 Glazed evacuated tubes
 Integral storage
 Concentrating

Collector manufacturer:

Collector model:

Individual collector gross areas:

Collector #1) Gross area: (m²)
 Collector #2) Gross area: (m²)
 Collector #3) Gross area: (m²)

Please attach a list, if necessary.

Number of collectors:	Total collector gross area: (m ²)
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Collector slope: (degrees from horizontal)

Collector azimuth (orientation): (degrees east or west of south)

Total collector design flow rate: (litres/second)

Section B. 5 Solar energy system – Technical Data

Estimated Annual Energy Savings

Net energy released by the solar energy system: (GJ/year)

Annual energy efficiency of auxiliary system: (%)

Displaced energy: (GJ/year) = [net energy released by the solar energy system ÷ annual energy efficiency of auxiliary system]

Type(s) of fuel(s) displaced (e.g. light fuel, propane, natural gas, electricity):

Percentage of the charge allocated to each fuel: (%)

Actual unitary cost of fuels displaced: (\$/GJ)

Displaced energy savings: (\$/year) = [energy charge displaced x unitary cost]

System Type

What type of system is it? You must select one.

- glycol in closed-loop
 drain back
 thermosiphon
 other (please specify)

Fluid Type

- glycol
 water
 other (please specify)

If glycol, indicate dilution rate:

% glycol

% water

Heat Exchanger Information

Function: collector to storage collector to load

Type:

If it is external, please provide heat transfer rate: (W/°C)

If it is internal, please provide the following:

Total heat exchanger area: (m²)

Material type: (e.g. copper, stainless steel, etc.)

Wall thickness: (mm)

Internal diameter: (mm)

Other information, if necessary:

Solar Energy Storage (if applicable)

Total storage capacity: (litres)

Number of tanks:

Capacity per tank: (litres)

Pool (if applicable)

Type of pool: indoor outdoor

Pool surface area: (m²)

Percentage of pool area that is shaded: (%)

Annual pool operation: Start date : / (mm/dd) End date: / (mm/dd)

Is there any auxiliary water heater? Yes No

What is the set point of the auxiliary heater? (°C)

Period of pool blanket use:

Start date: / (mm/dd) End date: / (mm/dd)

<p><u>Hot Water Load Information (if applicable)</u> Hot water consumption: (litres/day) Describe any seasonal variation in consumption. Average cold water temperature: (°C) What is the hot water set point temperature? (°C)</p>

Section C. Proposed Project Budget

C. 1 Planned Budget (excluding taxes)

Please list all costs before taxes. List new equipment costs only. Do not list recycled or refurbished equipment.

Solar Water Heating Components	Supplier	Cost (all taxes are excluded)
Collectors		
Collector rack and/or support components		
Piping and pipe insulation between the collectors and the auxiliary heater (detail the list)		
Solar heat exchanger(s)		
Solar heat storage equipment (detail the list):		
Photovoltaic components used to power solar system pump(s)		
Solar pump(s)		
Solar system controller		
Other (explain)		
Equipment cost Subtotal:		
Solar Water Heating System Project Implementation	Supplier	Cost (all taxes are excluded)
Project feasibility, design, and simulation		
Permits (exclusively for solar system installation). Please list them:		
Project management		
Installation labour		
Shipping		
Commissioning		
Implementation cost Subtotal:		
TOTAL PROJECT COST		
Total solar system cost per m ² of collector area:		(\$/m ²)

Section C. 2 Additional Financial Contributions

Did the solar system benefit from any other funding? Yes No
If yes, list funding sources below.

List all funding from governmental sources other than this program:

Organization	Program Name	Amount (\$)
Total additional governmental funding:		

List all funding from other sources:

Organization	Program Name	Amount (\$)
Total non-governmental funding:		

Section C. 3 Additional In-kind Contributions

Will the project receive any in-kind contributions? Yes No
If yes, list all in-kind contributions below:

Organization	Contribution	Amount (\$)
Total in-kind contributions:		

Section D. Project Representative

D. 1. Resource Persons

For more information on the project, the EEF may contact the following project representative(s):
 Project manager System supplier Proxy

D. 1. a Project Manager (If applicable)

Salutation: <input type="checkbox"/> Mr. <input type="checkbox"/> Ms.		Preferred Language: <input type="checkbox"/> French <input type="checkbox"/> English	
Title:			
Last Name:		First Name:	
Business Name:			
Mailing Address:			
City:		Province/Territory:	Postal Code:
Telephone: () -		Fax: () -	
E-mail:		Cell phone: () -	

D. 1. b System Supplier		
Salutation: <input type="checkbox"/> Mr. <input type="checkbox"/> Ms.		Preferred Language: <input type="checkbox"/> French <input type="checkbox"/> English
Title:		
Last Name:		First Name:
Business Name:		
Mailing Address:		
City:	Province/Territory:	Postal Code:
Telephone: () -		Fax: () -
E-mail:		Cell phone: () -
D. 1. c Proxy (If the request has been filled by someone other than the Applicant)		
Salutation: <input type="checkbox"/> Mr. <input type="checkbox"/> Ms.		Preferred Language: <input type="checkbox"/> French <input type="checkbox"/> English
Title:		
Last Name:		First Name:
Business Name:		
Mailing Address:		
City:	Province/Territory:	Postal Code:
Telephone: () -		Fax: () -
E-mail:		Cell phone: () -

Section E. Consent and Signature
<p>I, _____, the Applicant (please write in block letters), have read the notice and I understand the terms of this program. My financial assistance request for the Solar heating program is complete and accurate.</p> <p>As per Section D, I designate as the Project Representative(s): _____, _____ and _____.</p> <p>I authorize the Energy Efficiency Fund to use the information contained herein for planning, reporting and auditing purposes.</p> <p>Signed: _____</p> <p>Dated: _____ Location: _____</p>
<p>Was this request made by the Applicant? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If no, this request has been filled by the following proxy:</p>
<p>Name: _____</p> <p>Signed: _____</p> <p>Dated: _____ Location: _____</p>

PLEASE SEND:

1. A copy of this form
2. The simulation results appended to the form
3. The electronic file with the simulation by email at info@fee.gc.ca