

# Form IIb – Request for Payment of Financial Assistance for solar water preheating projects

## Solar Preheating Grant <sup>1</sup>

\* Mandatory fields

I, the undersigned, duly authorized representative of \_\_\_\_\_, hereinafter

name of company

called "the participant," declare that the solar preheating system, file number PE \_\_\_\_\_ which was approved by Énergir, has now been installed.

The installation of the solar air preheating system was completed on: \_\_\_\_\_

day / month / year

### Section 1 – Information about the professionals associated with the project

#### Information about the person responsible for the start-up

\* Name of person: \_\_\_\_\_

\* Name of company: \_\_\_\_\_

\* Telephone: \_\_\_\_\_ \* E-mail: \_\_\_\_\_

\* Registration:  Engineer  Certified engineering technologist  CanSIA certified installer

#### Information about the supplier of the solar collectors

\* Name of company: \_\_\_\_\_

\* Name of resource-person: \_\_\_\_\_

\* Title: \_\_\_\_\_

\* Telephone: \_\_\_\_\_ \* E-mail: \_\_\_\_\_

#### Information about the installer of the solar preheating system

\* Name of company: \_\_\_\_\_

\* Name of resource-person: \_\_\_\_\_

\* Title: \_\_\_\_\_

\* Telephone: \_\_\_\_\_ \* E-mail: \_\_\_\_\_

### Section 2 – Status of implementation

I, the undersigned, declare that the solar preheating system has been installed  in its entirety  after modification.

The modifications made to the solar preheating system are as follows:

In the case of any modifications made to the solar preheating system, Énergir requires that the following documents be submitted with the request for payment of financial assistance:

Detailed diagrams of the solar preheating system;

Revised simulation.



<sup>1</sup> This grant may end at any time.

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### Information about the modified solar preheating system

Please complete the following table if the solar preheating system installed has been modified.

Type of collectors	Manufacturer and models	SRCC certificate number	Quantity
1			
2			
3			

Gross dimensions of individual collectors			Inclination angle (degrees from horizontal plane)	Orientation of collectors (degrees east/west of due south)	Expected total flow from collectors (litres/second)
Length (m)	Width (m)	Surface area (m <sup>2</sup> )			
1					
2					
3					
<b>Total surface area</b>					

The participant certifies that the installed collector's physical characteristics correspond to the one found in the SRCC certificate of that model.

Yes  No – Please list all differences (material, glazing type, thickness, transmissivity, air flow, etc.):

\* Annual savings made possible by the solar preheating system:  m<sup>3</sup>/year

Consequently, we acknowledge that if the volume of natural gas saved is different from that initially expected from the solar preheating system, Énergir reserves the right to modify the amount of financial assistance originally accorded.

### Section 3 – Start-up of the system

Please list the steps of your evaluation of the system that allow you to conclude that the system has been started up:

Please indicate why you believe that the installation complies with well-established engineering principles:

Complete the blank cells edged in blue

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### Section 4 – Final Information on the Water Heating System

\* Please indicate if the water heater is connected to the solar collector:  Yes  No

\* Please describe the nature/usage of hot water consumption:

\* Please indicate the type of device that is heating water with natural gas:  Furnace  Boiler

Other:

\* Please indicate the average flow of hot water:  (en L/s)

\* Please indicate number of hours of current use:  and future use  (in hrs/week)

\* Please indicate the average supply temperature:  (in degrees Celsius)

fixed

variable

\* Describe both the current and the proposed strategy for hot water heating:

\* Indicate the control logic or sequence of the solar collectors, based on hot water demand:

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### Section 5 – Final costs of project for the solar preheating system

Components of solar air preheating system			
	Cost \$ (excluding taxes)	Comments	Datech (Cost estimated by Énergir <sup>2</sup> )
<b>Cost of collectors</b>			
* Solar collectors, supports and fans			
* Ducts and insulation of ducts connecting the collectors with the auxiliary heating system at the interface			
* Dampers			
* Heat exchanger			
Other (please specify)			
<b>Sub-total</b>			
<b>Other</b>			
* Roof structure reinforcement			
* Modification to process to convert it to solar preheating			
* Controller for the solar preheating system			
* Number of control points: _____			
<b>Total cost of equipment</b>			
<b>Project implementation costs</b>			
* General expenses			
* Engineering expenses			
Other (please specify)			
<b>Sub-total</b>			
<b>Total cost of project without destratification</b>			
<b>Total cost of project</b>			
<b>Total cost of system by cubic metre</b>			
<b>For new construction projects</b>			
Costs avoided by using the solar collector for the building's exterior cladding			

Complete the blank cells edged in blue

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<sup>2</sup> Énergir reserves the right to review eligible costs.

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### Section 6 – Final calculation of payback period

#### Information on the modified solar preheating system

Please complete the following table, using the final data from the installed solar preheating system.

#### Price of natural gas

\* Average over last 12 months: \$ \_\_\_\_\_/m<sup>3</sup>

Annual natural gas savings – Section 2 (m <sup>3</sup> )	Annual saving (\$)	Total cost of project – Section 5 (\$)	Payback period <sup>3</sup> without grant (years)	Datech

### Section 7 – Final information on financial contribution(s) from other organizations

The participant hereby declares all financial assistance received or expected to be received from other organizations for implementing these measures:

Name of organization	Name of grant	Amount received to date (\$)	Amount to be received (\$)	Total amount expected (\$)

The participant agrees that Énergir may share information with other organizations. The participant also agrees that Énergir may revise the amount of financial assistance accorded to take into account any other financial assistance received.

Complete the blank cells edged in blue

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### Declaration

The participant hereby declares that the information provided in this document is accurate and complete. The participant acknowledges that any false declaration could result in the repayment of all the financial assistance paid by Énergir.

The participant agrees to give access to the building that is receiving financial assistance from Énergir. A duly authorized Énergir representative may, on request, verify the solar preheating system installed, even if the financial assistance has already been paid.

#### The participant also encloses with this request:

- Photographs of all the components of the solar preheating system installed;
- Photographs taken of the overview of the collectors and their immediate environment showing, where appropriate, the obstacles that can generate shading on the collectors;
- Copies of bills for the acquisition and installation of the equipment concerned, including:
  - Details of the costs of all the solar preheating system components shown on Form Ib;
  - Contact information for the participant and Énergir account number;
  - Contact information for the supplier of the equipment and the installer;
  - The description of the system installed is in accordance with the description on Form Ib – or of the modifications made to the solar preheating system
- A bill addressed to Énergir claiming the amount of financial assistance to be paid, including applicable taxes.

In witness whereof, we have signed

#### Owners of the installations

\* Name of participant's resource-person:

\* Signature:

\* Signed the:

day / month / year

Complete the blank cells edged in blue

#### Person responsible for the start-up

\* Name of company:

\* Name of person:

\* Signature:

\* Signed the:

day / month / year

By e-mail:  
energyefficiency@energir.com

SEND

By mail:  
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Energy Efficiency Programs  
1717 du Havre  
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By fax:  
514 598-3700

PRINT

