

## Commercial Solar Water Heating System Input Sheet

### Contact Information

Contact Person: _____	Date: _____ (dd/mm/yy)
Organization: _____	
Street Address: _____	City: _____
Province/State: _____	Postal Code/ Zip Code: _____
Phone _____	Fax _____ Email _____

### Site Location

Organization: _____	
Street Address: _____	City: _____
Province/State: _____	Postal Code/ Zip Code: _____
Phone _____	Fax _____
E-mail _____	

### Building Characteristics

Number of Stories _____	Height of Building _____
North Facing Roof Slope _____	Roof Orientation (if sloped) _____
Available Roof Area _____	Shading from buildings/trees? _____
Age of the building/roof _____	Available Ground Area _____
Available North Wall Area _____	
<i>Please attach pictures or diagrams if available</i>	

**Mains Water Service**

**Municipal water** or **Well water** (Circle one); Diameter of water pipe going to heaters: \_\_\_\_\_

Hardness \_\_\_\_\_ Turbidity \_\_\_\_\_ Comments \_\_\_\_\_

Water Analysis in Region \_\_\_\_\_

Yearly average water temperature \_\_\_\_\_ °C or °F (Circle one)

Or monthly average water temperature if available, °C or °F (Circle one)

January \_\_\_ February \_\_\_ March \_\_\_ April \_\_\_ May \_\_\_ June \_\_\_

July \_\_\_ August \_\_\_ September \_\_\_ October \_\_\_ November \_\_\_ December \_\_\_

**Existing Hot Water System Characteristics**

Current form of water heating (e.g. electric, natural gas) \_\_\_\_\_ Temperature setting \_\_\_\_\_ °C or °F (Circle one)

Location of existing tank(s) \_\_\_\_\_ Tank volume(s) \_\_\_\_\_ /or gal or gal(US)

Space around tank \_\_\_\_\_ (diagram if available)

Room for additional tank(s) \_\_\_\_\_

Is there any waste heat recovery being used \_\_\_\_\_

Age of the existing system \_\_\_\_\_

Any proposal to replace existing system \_\_\_\_\_

Mechanical Room Temperature \_\_\_ °C or °F (Circle)

Diameter of main water pipe \_\_\_\_\_

Estimated water flow rates \_\_\_\_\_

### Hot Water Load

Main use of hot water \_\_\_\_\_

Other uses for hot water (e.g. kitchen, laundry, pool) \_\_\_\_\_

Details: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Time of day most hot water is used: **Constant** or **Morning** or **Mid-day** or **Evening** (Circle One)

Hot Water Load Units: / or **gal** or **gal(US)** (Circle)

How many days a week is hot water used \_\_\_\_\_

Daily hot water load \_\_\_\_\_

Does this change with season? \_\_\_\_\_

If hot water load is not available, what is daily total water load \_\_\_\_\_

Estimate of hot water percentage \_\_\_\_\_

Monthly hot water load (or total water load) if available:

January \_\_\_\_\_ February \_\_\_\_\_ March \_\_\_\_\_ April \_\_\_\_\_ May \_\_\_\_\_ June \_\_\_\_\_

July \_\_\_\_\_ August \_\_\_\_\_ September \_\_\_\_\_ October \_\_\_\_\_ November \_\_\_\_\_ December \_\_\_\_\_

Energy Consumption for hot water last year \_\_\_\_\_

If hot water usage is unknown, provide cold water consumption (from water bills):

Qty \_\_\_\_\_ per (circle one): **day, week, month, year**

**Line Set Route**

Estimated Length Indoors (From solar collectors to mechanical room) \_\_\_\_\_ feet or metres (circle)

Estimated Length Outdoors (From solar collectors to mechanical room) \_\_\_\_\_ feet or metres (circle)

Is there access to full line set route? \_\_\_\_\_ If not describe \_\_\_\_\_

*Please attach diagrams and photos if available*

Diagrams or Sketches that could be helpful (use extra paper if required)(Please indicate shading potential – height, distance away from solar collector location, and angle formed between shade item, collector location and due south:

**Roofing and Wall Information**

Please provide as much information about the roof/wall and its substrate. This has significant impact on mounting/anchoring options. If you could provide structural drawings and photographs this would help evaluate options.

**Installation Information**

Crane Load/Zoom Boom/ Scaffolding – Assume that “zoom-boom” can operate up to 3 stories. For access higher than that we need to confirm space for a crane, we need to confirm that the crane can lift load to all parts of the roof and we need to ensure that the floor where the crane will be situated can handle the crane load. Please provide any information that you have e in this regard.

Staging Areas - BPPG will require a staging area to locate equipment, materials and tooling. The size required varies by project. Please outline what space is available for this purpose.

Security – BPPG need to enquire as to the security of the staging area. Are required to provide our own security personnel?

Other Specific Requirements (Please consider insurance, union/non-union, working times, signage etc)

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