

# Checklist for a Solar Project



## 1. Project information:

### Heating Contractor:

Company: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Street: \_\_\_\_\_

City: \_\_\_\_\_

Postal/Zip Code: \_\_\_\_\_ Prov./State: \_\_\_\_\_

Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

### Project Details:

Customer Name: \_\_\_\_\_

Street: \_\_\_\_\_

City: \_\_\_\_\_

Prov./State: \_\_\_\_\_

Closest major city: \_\_\_\_\_

Quotation

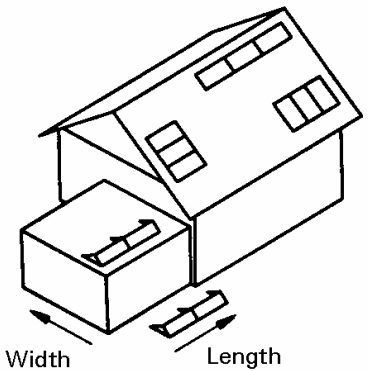
Consultation

Deadline: \_\_\_\_\_

## 2. Installation Area and Collector Type

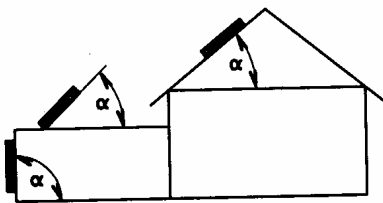
Collector type	Sloped roof	Flat roof
Vitosol 100, Model SV1	<input type="checkbox"/>	<input type="checkbox"/>
Vitosol 100, Model SH1	<input type="checkbox"/>	<input type="checkbox"/>
Vitosol 300	<input type="checkbox"/>	<input type="checkbox"/>

Shading factors: Are there any large trees or buildings that will shade the collectors at any time? If yes, please provide sketch of site.



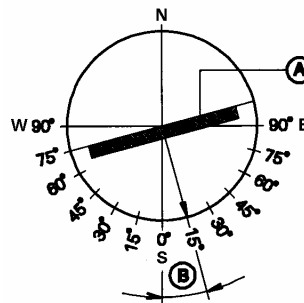
### Collector Inclination

Inclination  $\alpha$  = \_\_\_\_\_ °



### Collector Alignment

Deviation from south: \_\_\_\_\_



### Available Roof Surface Area

Length: \_\_\_\_\_ ft

Width: \_\_\_\_\_ ft

Provide sketch of roof if possible

## 3. Roof Construction

### Sloped roof:

Asphalt Shingle

Roof Tile

Other: \_\_\_\_\_

### For flat roofs or freestanding:

Tar and gravel

Ground mounted

Other \_\_\_\_\_

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## 4. Building Data

New Construction                       Retrofit

Pipe length from collector to solar storage tank: (one way): \_\_\_\_\_ ft./m                      # of floors: \_\_\_\_\_

Mechanical room location (for multi-story buildings):                       Basement                       Roof                       Other: \_\_\_\_\_

## 5. Solar system use

1. DHW heating                       2. Swimming pool heating                       3. Space heating support

Does one of the System Types shown in the System Design Guidelines, Part No. 5167 156, apply?

Yes, System type                       1                       2                       3                       4                       No, please attach system layout drawing.

### 1. DHW Heating Load

Residential home                      How many people in home? \_\_\_\_\_                      DHW usage: \_\_\_\_\_ USG/day

# of bathrooms: \_\_\_\_\_                       Whirlpool tub                      size: \_\_\_\_\_ USG

Multi-family apartment                      # of apartments: \_\_\_\_\_                      Average # of people/apartment: \_\_\_\_\_

DHW usage: \_\_\_\_\_ USG/day                      Recirculation loop                       yes                       no

Other DHW application                      Building type: \_\_\_\_\_                      DHW usage: \_\_\_\_\_ USG/day

DHW temperature desired: \_\_\_\_\_ °F

DHW use pattern: Is usage the same all year?                       yes                       no                      If no, please attached the monthly usage pattern

Current DHW heating method:                       oil                       gas                       electric                       direct fired                       indirect c/w boiler

Existing DHW tank available:                       yes                       no                      if yes, Storage Capacity: \_\_\_\_\_ USG

Desired solar coverage rate:                       40%                       50%                       60%                       \_\_\_\_\_ %

### 2. Swimming Pool Heating

Open air pool                      Location:                       Wind exposed area                       Wind protected area

Period of Use:                       June – August                       May – September

Indoor pool

Swimming pool size (l/w/d): \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ ft.                      Pool volume: \_\_\_\_\_ USG

Desired water temperature: \_\_\_\_\_ °F                      Pool cover used:                       yes, hours/day used: \_\_\_\_\_                       no

Backup reheating available                       yes                       no                      If yes, what type: \_\_\_\_\_

### 3. Space Heating Support

Size of heated area: \_\_\_\_\_ ft<sup>2</sup>                      Building heat load: \_\_\_\_\_ MBH

High temp heating (radiator/fan coil)                      System temperature: \_\_\_\_\_ °F                      % of building heated: \_\_\_\_\_

Low temp heating (radiant floor)                      System temperature: \_\_\_\_\_ °F                      % of building heated: \_\_\_\_\_

Installed boiler output: \_\_\_\_\_ MBH                      Fuel type: \_\_\_\_\_