

## How Does a Solar Thermal Water Heating System Work?

There are several types of solar water heating systems. Evolution designs and builds low maintenance drainback systems. Solar collectors are placed on your roof.

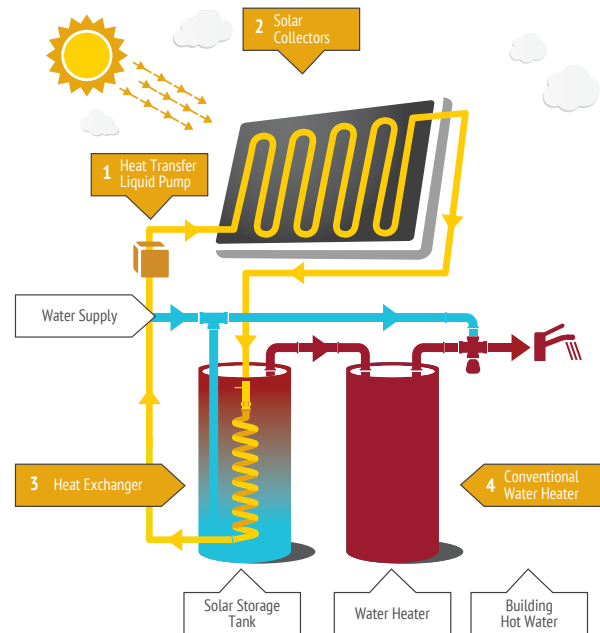
Heat transfer fluid circulates through the collectors and is stored in a tank at a temperature up to 180 degrees. Your potable water is routed through a heat exchanger to pick up this energy.

This means that you use less energy to heat your water in the conventional tank, since it was already delivered hot from the solar water tank. The system doesn't replace your existing boiler, it supplements it.

### Program Eligibility Requirements

To be eligible for the program, your property must meet the following criteria:

- The building(s) must be multifamily.
- The energy used to heat and circulate hot water must be purchased from PG&E, SoCalGas, or SDG&E. You must have a utility natural gas bill tied to the property.
- The building must have at least one central water heating system.
- Each central hot water system must serve 10 apartments, and you need 20 apartments total.
- If your building is smaller than 20 units, call Evolution for details.



- 1** A pump circulates a transfer liquid from the tank to the roof.
- 2** Solar collectors absorb the sun's thermal energy and heat the transfer liquid.
- 3** The transfer liquid enters a heat exchanger, warming the tank.
- 4** Hot water flows to your existing boiler or water heater, which provides backup heating when the sun isn't shining.

### How To Participate

For more information about a no-cost solar hot water system, and to get more details about an inspection and participation in the program, contact:

**Evolution Building Efficiency**  
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