



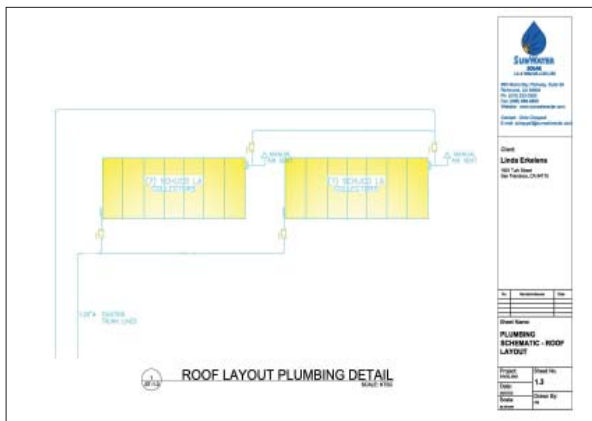
21-Unit Apartment Building

Solar Thermal Case Study: Domestic Hot Water System

SUNWATER
SOLAR

System At A Glance	
Location	San Francisco, Calif.
Building	21-unit apartment
Collectors	14 Schuco Premium LA
Total Collector Area	406 square feet
Solar Pump Station	Schuco PS 1.3
Solar Storage Capacity	480 gallons
Hot Water Load	840 gallons/day
Therms Offset (1 Year)	1,442 therms
Carbon Offset (1 Year)	1.4 cars off the road
System Cost	US\$40,093*

**After CSI-Thermal rebate*



Collector layout schematic (SunWater Solar design)



Mechanical room configuration

About SunWater Solar

SunWater Solar is a solar thermal integrator that manages the design and installation of commercial solar thermal systems, which lower utility bills, reduce greenhouse gas emissions and help clients meet sustainability requirements. With extensive project management experience in domestic hot water heating, process heating and solar cooling, SunWater Solar staff are among the solar thermal industry's top professionals. Founded in 2007 and based in Richmond, California, SunWater Solar serves clients in a variety of industries and focuses exclusively on solar thermal technology.

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Project Overview

The property owner met SunWater Solar through the San Francisco Apartment Association (SFAA). She contracted with SunWater Solar to remove an existing 25-year-old solar hot water system from her 21-unit apartment building, and design and install a new system to replace it.

Client Overview

Linda Erkelens and her husband Ron Dion own four apartment buildings in San Francisco. Linda and Ron have been interested in green technology since the 1980's, and made it a priority to reduce their buildings' carbon footprint. They were also motivated by a desire to lower their utility bills by pre-feeding the buildings' boilers with solar pre-heated water.

Client Perspective

"I recommend solar hot water to owners/operators of buildings that have a high number of rooms or residents. After the Turk Street system went in, I was so happy with SunWater Solar's performance that I had them install similar systems on my three other apartment buildings."

- Linda Erkelens, Apartment Building Owner

Points of Interest

Removing the old solar thermal system from this building required precision crane operation. First the old system was disassembled. Then the collectors, piping and other system components were lifted down from the roof by a large crane positioned on a busy downtown street four stories below.