



Williams-Selyem Estate Winery

Solar Thermal Case Study: Process Heating System

SUNWATER
SOLAR



System At A Glance	
Location	Healdsburg, Calif.
Building	Winery
Collectors	14 Heliodyne Gobi 408
Total Collector Area	451 square feet
Solar Pump Station	Custom Built
Solar Storage Capacity	700 gallons
Hot Water Load	xxx gallons/day
Therms Offset (1 Year)	1,820 therms (estimated)
Carbon Offset (1 Year)	1.8 cars off the road
Annual Savings	US\$6,000 (propane costs)

Project Overview

SunWater Solar designed and installed a closed-loop glycol solar thermal system for process heating at Williams Selyem Estate Winery. Hot water produced by the system is used for wash-down of barrels, tanks, equipment and floors, as well as bottling line/bottle sterilization before filling.

Client Overview

Located in northern California's famed Russian River valley, Williams Selyem is a legendary award-winning winery with an avidly loyal following. The winery owners invested in solar thermal to reduce the cost of wine-making operations.

Client Perspective

"We chose to install a solar thermal hot water system because of its efficiency and short investment payback. I would recommend ALL homes, businesses and wineries seriously look into this cleaner energy source as our future. We feel that if everyone started doing a little bit at a time, we could hopefully break the oil usage cycle and secure a cleaner future for the next generation."

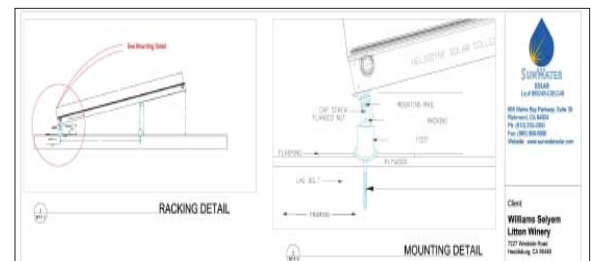
- Bob Cabral, General Manager/Winemaker at Williams Selyem

Points of Interest

Previously, the winery heated its water with propane. Solar thermal makes very strong financial sense for businesses that heat water with propane because this fuel source is even more expensive than natural gas or electricity, other fuels commonly used to heat water.

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. 11-04a



Racking & mounting details (SunWater Solar design)



Mechanical room configuration