

Commercial Solar Water Heating ROI for Natural Gas & Propane and CO2 Reductions

As energy prices rise, SOLAR WATER HEATING will play an increasingly important role for commercial hot water users. Flat plate solar collectors heat water from ground source temperature (approx 55 deg F) to a maximum of 180 deg F. A properly designed system will optimize system performance and return on investment (ROI).

System design need not be overly complex. However, several variables must be considered for proper operation. Physical variables include: consumption profile, location (latitude and local climatic patterns), siting issues (roof angle, other equipment, etc), shading, aesthetics & zoning, existing storage, wind loading and high wind impact, access, integration, and other issues. Financial variables include: current and projected cost of fuel, tax credits, utility incentives, air quality management district (AQMD) incentives and/or offsets, municipal incentives, LEED points, funding points for low income/senior housing, carbon banking or cap/trade values, etc. Power Purchase Agreements (PPA) can be structured to include solar thermal alongside PV or other energy measures being considered.

Seamless operation, remote monitoring access and significant fuel savings will all be present in successful systems.

Seasonal and annualized solar resource figures are well documented and widely available. For commercial hot water users with consistent year round consumption, solar water heating can be an important business tool serving to stabilize rising energy costs while reducing demand on existing equipment. Environmental benefits may help further reduce system costs.

We invite you to explore how SOLAR WATER HEATING may serve to benefit your commercial applications.

EFFICIENCY



Solar Thermal utilizes anti-reflective coatings and ultrasonic welding techniques to capture up to 93% of the sun's radiant energy, compared to approx. 15% for photovoltaics.

INTEGRATION



Solar Hot Water systems can be integrated into most existing tank based or tankless water heating systems.

AESTHETICS



Low profile collectors can be mounted invisibly behind parapet walls, or color matched to integrate with virtually any commercial or industrial setting.

MONITORING



Remote monitoring and data logging capability is engineering into every system where internet connectivity is present.

DURABLE



Wind tested to 150 mph, superior impact resistance, low modular individual replacement costs and a 10 year warranty ensure client satisfaction through severe weather events.

IDEAL USERS:



Consistent demand hot water users such as: Hotel/Motel, Senior Housing, Health Clubs, Breweries, Markets, Food Processing, Restaurants, Health Facilities, Laundries, Cafeterias, Dormitories, Dairies, Apartments, etc.

Contact Tony Woicekowski, VP Business Development
pr@solarroofs.com



SolarRoofs.com 5840 Gibbons Drive Suite G, Carmichael, CA 95608
(916) 481-7200 fax (916) 481-7203 www.SolarRoofs.com

DUNS#
159005805
CAGE CODE
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