Evosolar®

# Solar Hot Water

## WHY SOLAR THERMAL?

Solar Hot Water systems generate more energy for your dollar than any other renewable resource making it a smart and practical first choice toward a greener lifestyle.

Solar thermal technology is actually very simple and has been around for over 100 years in its most basic form.

There are several renewable energy options to choose from: Geothermal, Wind and Photovoltaic (PV). The initial investment for Solar Thermal is much lower and with the number of high quality and efficient products available on the market today, the payback period is shorter than other renewable energy options.

The sun is the most reliable and abundant source of energy. It produces 400,000,000,000,000,000,000,000,000 watts of energy *every second*.

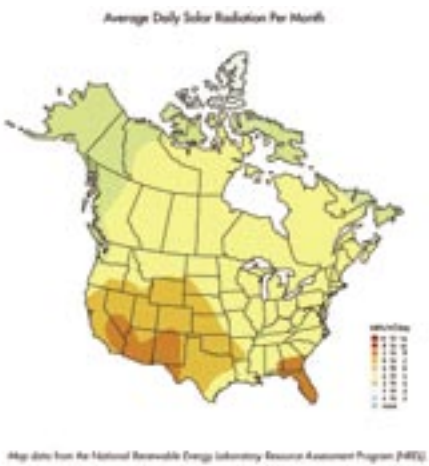
## HOW DOES SOLAR THERMAL WORK AND WHAT DOES IT LOOK LIKE?

First, the solar collectors on your roof are heated by the sun. Being composed of aluminum and glass, it is able to capture the suns energy in the form of heat. This heat is then transferred to the fluid running through the internal piping. A typical installation has 2 to 4 collectors mounted flush to a roof-top, which resemble modern-day sky lights.

Second, solar thermal systems come with the latest controls and circulation units to monitor the performance and to distribute the fluid throughout the system. The circulation unit is typically the size of a shoebox and the controller resembles a home thermostat.

Third, the solar storage tank stores the water that is heated by the fluid from the solar collectors outside. Each tank is provided with a back-up system for those days with limited solar radiation. This storage tank is similar in size to a conventional water heater.

## WHAT IS THE IDEAL CLIMATE FOR SOLAR THERMAL?




Anywhere.

The sun emits energy even on the coldest and cloudiest of days. Consider this...Germany has the solar radiation level equal to that of Michigan and is a leader in solar thermal technology with a high per capita of installs. The solar radiation chart at left indicates the abundance of solar energy making a solar thermal installation feasible anywhere.

## IS SOLAR THERMAL REGULATED?

The Solar Rating and Certification Corporation (SRCC) is an independent non-profit organization that was formed in 1980, that develops and implements certifications that regulate the flow of quality products that enter the market. The federal government, along with numerous states and utility companies, use these standards and the certifications from SRCC to base their tax credits and rebates. For more on solar thermal and the state and federal tax rebates visit these sites:

- www.dsireusa.org
- www.seia.org
- www.eia.doe.gov

## WHAT IS INSTALLATION AND MAINTENANCE LIKE?

Most solar thermal installations are comprised of the same components and function in the same manner, but every installation is site specific and there are several variables that come into play when an installation is quoted. The rule of thumb though, is that installation and cost of material and equipment tend to be equal. Installation, which usually takes 1-2 days, should be performed by a certified installer who can be found by using www.findsolar.com. Yet, maintenance and upkeep is very low. There are a few things that the homeowner can do to maintain system efficiency and prolong the life of the system. But periodic system check-ups should be performed by your installer over the years.

## WHAT IS THE PAYBACK?

Through hot showers, dishwashing, laundry, and cooking, the average person uses about 25 gallons of hot water per day. Thus, finding a cost-effective way to reduce or eliminate hot water production utility costs can accumulate to be a significant savings. The average household spends an average of 25% of home energy costs heating water.

Solar water heater owners can expect to save 50% - 80% annually on water heating bills. Furthermore, the average return on investment for a solar hot water system that has been well designed and correctly installed is between 4-8 years.

## WHY EVOSOLAR?

Evosolar offers a complete solar thermal system for domestic or commercial hot water production. Evosolar manufactures, designs, and sources the highest quality components ensuring optimum results, low maintenance and a long life.

Evosolar is a division of Jomar International and F. Pettinaroli SpA. Both have been providing quality and innovative valve and component solutions to the world market for over 40 years. Evosolar is backed by their distribution and marketing capabilities as well as their engineering and technical expertise.

### *RESIDENTIAL* Plus

The Evosolar “Plus Series” is a fully-integrated system for the production of Domestic Hot Water (DHW). The Plus series is capable of producing up to 70% of your hot water needs. Each packaged system is appropriately sized for common demand levels. A Plus Series package comes complete with all the components and accessories necessary for a solar thermal installation. With Evosolar’s quality components, the system life is expected to be 20 years or more.

### *COMMERCIAL* Pro

The Evosolar “Pro Series” is designed for commercial solar installations. With the flexibility to provide large volume tank solutions and equipped with the sophisticated software to assist in project analysis and support, Evosolar can accomodate any size or type of project.

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For more information please visit www.evosolar.us