

Large-scale Solar Applications

The applications for solar energy in industry and large-scale operations are huge. Hot water and air are needed for the production of many industrial products. Every company or public energy–consumer who has a daily need for hot water/air should seriously consider the application of solar energy to save energy and money.

During summer almost all the energy needs can be provided by a solar system. In winter the available sunlight may provide 30% or more and should be used as a preheater of the existing heating system.

In Europe large-scale solar systems have been in operation for many years .Companies not only benefit important energy savings but their market shares are growing because of the environmentally friendly image they enjoy.

Principle:

Advanced flat glazed collectors produce hot water which can be stored or used directly for the application. Hot water systems consist of solar collectors, tank storage, pump, controller and insulated piping. Sunlight is the most important factor to produce heat. Diffuse solar radiation is transferred as well as direct sunlight .

Economics:

Solar systems are designed and installed to maximise the daily solar energy which is free and renewable. Economically the solar systems have a pay-back time of 5-10 years while the systems have a proven lifespan of 30 years in Europe.

EWA-TEC proposes sustainable solar technology with following principles:

- Flat plate glazed collectors with tempered, low-iron glass and high-efficiency copper coated absorbers (both for hot water or hot air)
- Stainless steel storage tank(water applications)
- Minimum auxiliary energy needed
- No danger for frost or overheating , no maintenance and low operating costs
- No oversizing of the system
- Durable material choice and use of recyclable material
- Simplicity and speed during installation of the system

Applications

- Hot water preheated for steam production, cleaning, showering
- Hot water production for industrial processing
- Hot water for swimming pools and large hot water users

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BE SMART ...BUY SOLAR !!!

THINK DIFFERENTLY...INSTALL SUSTAINABLY!!



50 m2 Swimming pool heating: Cheviot-New Zealand



16 m2 for Dairy farm : Rotorua- New Zealand



22 m2 for Floor + pool heating Taupo –New Zealand



16 m2 for Floor +pool heating: Waiheke-New Zealand



2,400 m2 for industrial heat in the Netherlands



300 m2 for hot water in Bewleys Hotel-England

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