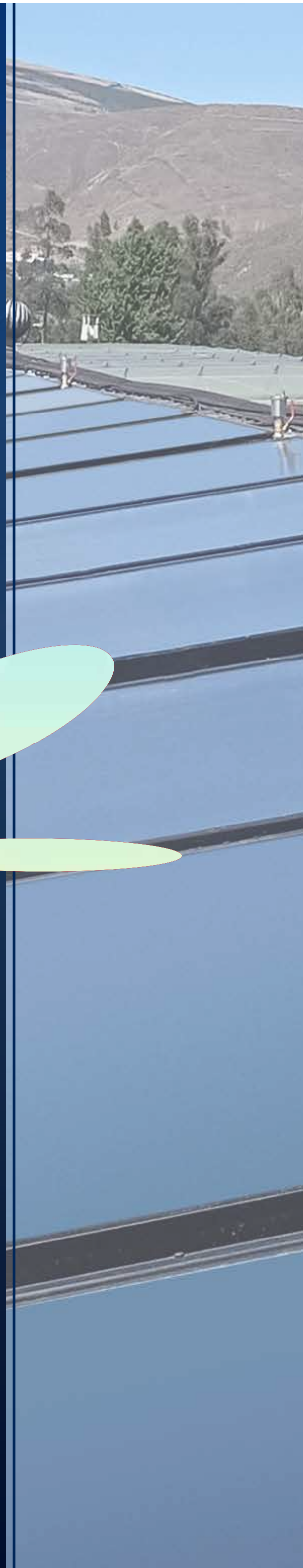




# PROJECTS CATALOG

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**Chromagen**<sup>TM</sup>  
Hot Water Solutions



# Chromagen

Hot Water Solutions

Chromagen is a pioneer in the production of hot water solutions experience since 1962 with a solid presence in over 40 countries around the world, and continuously expanding. Chromagen is positioned within the top 10 largest flat plate collector's manufacturers world-wide. At Chromagen, we are proud of our high quality Hot water solutions and long lasting products, using the highest raw material quality, complying with all international standards. Chromagen's projects department provides complete hot water solution which is tailor made applications for residential and commercial projects.



# Hot water projects and solutions

Chromagen leads hot water projects world-wide, including multi-story apartment buildings and hundreds of hotels, hospitals, industrial plants, motor camps, sport clubs, spa and more. Chromagen's engineering department provides complete hot water heating solutions that are individually handled and planned. This department analyzes the project data, drafts preliminary design and ROI calculations, quotations, detailed engineering planning, installation, supervision and after-sale technical support.



# Quality strategy

Chromagen meets the highest international standards and superb quality control. Our management scheme comply with ISO 9001 and IQNet standards. Chromagen systems and components conform with the European standards EN12975 for solar collectors & EN 12976 for solar thermal systems, International standards ISO 9806, Israeli standard, SRCC USA, Environmental standard ISO 14001, Health & Safety standard OHSaS 18001, Australian, European standards and more.



# Projects Department

Chromagen takes pride of its Project Department for providing complete solar water heating solutions that are individually handled by company engineers. This department analyzes project data, drafts preliminary designs and ROI calculations, quotations, detailed engineering planning, installation, supervision, and after sale technical support.

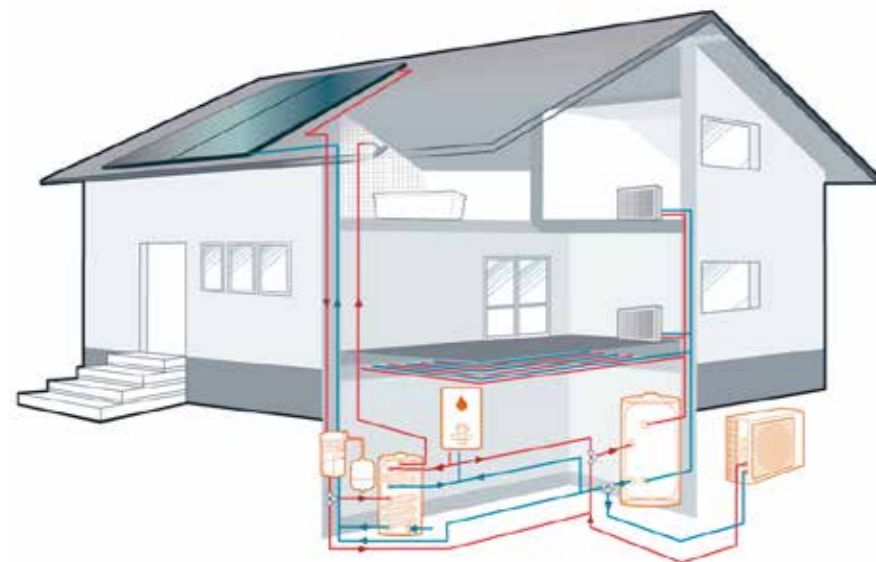


# Private Homes

## Hot Water Solutions

Private homes projects may combine heating solutions of underfloor heating, showers, swimming pool, and Jacuzzi. These systems can be easily integrated with systems for sanitary water heating, guaranteeing maximum savings. Forced water systems work with an electric pump, controllers and valves to circulate water, or another liquid, through the collectors on a roof or the ground. The smart system prioritizes the solar system and activates the back-up conventional heating system only when necessary.

Combination of solar sanitary water heating and radiant heating systems for all hot water needs in private homes.

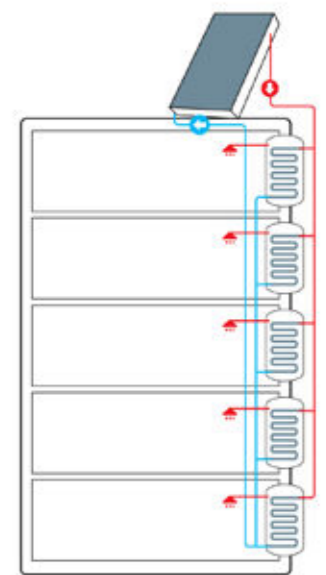


# Apartment buildings

## Hot Water Solutions

Solar heating systems are integrated with the existing conventional heating system in the building, using a collector's field. Solar collectors, which heat water using the sun's energy, are installed on the building's roof or the ground. The water is directed to tanks, which serve the users according to their needs. The tanks are placed in the utility rooms or in individual apartments. The conventional heating system becomes the back-up system, operating only when the temperature in the hot water storage tanks is insufficient, mainly on cloudy days.

Combination of collector fields with individual water heating units for use in apartments, or a central heating system for water heating of an entire building.

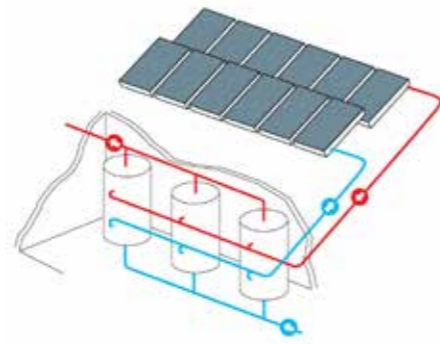


# Hotels

## Hot Water Solutions

Hotels solar water heating is a proven way to obtain significant energy savings and reduce the running costs of a business. Storage tanks may be added to the current system within the building, and a collector's field is placed on the roof or an alternative area. The hot water generated by the collectors is stored in storage tanks and distributed for various needs within the hotel, such as: showers, Jacuzzi, spa, kitchen, laundry and dining room. The older conventional system may work as a backup system that can be used when required.

**Integrating solar water heating solutions with existing heating systems for usage in hotels**



# Pools and Spa

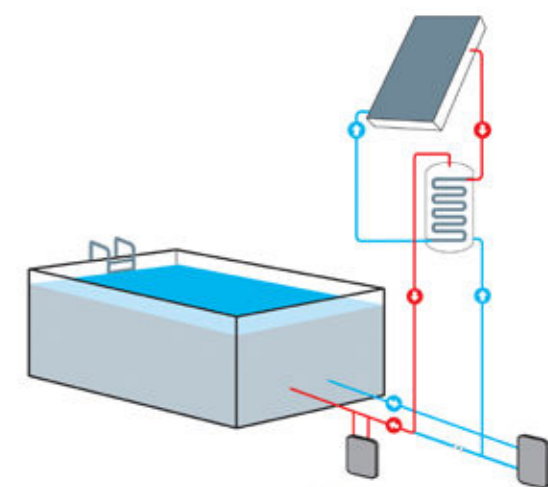
## Solar Water Solutions

Heating swimming pools, Jacuzzis and spas in sports centers, combined with heating water for showers, can be carried out using solar heating systems with a solar collectors field and an optional heat pump.

Solar heating enables the exploitation of available energy, and saves the considerable expenses involved in direct heating using liquid fuels, gas or electricity. When using this system, it is crucial to use a heat exchanger between the heating system and the pool, Jacuzzi or spa.

The water temperature is monitored by a thermostat which controls the system. The system provides hot water, extending the possible swimming period beyond the standard swimming season in open pools, and all year round in closed pools.

**Solar hot water solutions for heating swimming pools, Jacuzzis, spa and showers in sports centers, country clubs, hotels and private pools.**

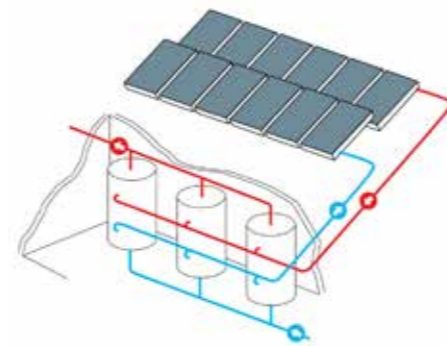


# Industrial

## Hot water solutions

The heating of water or other liquids accounts for one third of industrial energy. Chromagen performs an energy study for each plant and tailors a specific solution to match the industrial plant needs. The customer receives an energy saving analysis and a return –on– investment data, based on statistical radiation and weather conditions in the specific geographic location of the plant. The analysis enables to take a decision based on professional economic parameters. The projects are usually characterized by the return-on-investment within maximum of five years.

Solar water heating solutions to provide continues hot water and pre-heating water for industrial processes



# Hospitals and Commercial

## Hot water heating

Hospitals require high water temperature for various needs such as operating rooms, laundry, dining rooms, kitchen and showers. The hot water generated by the collectors is stored in storage tanks, and distributed within the building. The older conventional heating system may work as a back-up system. The system is designed to prevent legionella in hospitals projects.

Other commercial applications such as car wash, laundromat, senior homes, student dormitories, motor camps and more, can enjoy great savings potential by using solar heating systems.





**The right choice**

Every hour, Every day

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