



Solar water heaters entered our lives dynamically in the mid-80s and up today three out of ten households in Greece have installed a Hot Water production system, while countries like Cyprus and Israel have already reached 90%. According to the **Renewable Sources & Energy Saving Center** the energy benefit from the above systems is equal to 3 thermal power industries using lignite coal with the capacity of Megalopolis production center.



The contribution of solar thermal systems in reducing the consequences of the climate change phenomenon is also remarkable. A typical system with a collector panel of 2.5 sq.m. with a capacity of 150 Lt of water, which replaces an electric heater, saves **1,700 kg CO2/year**. Correspondingly, an electric car, which saves all the exhaust emissions of a thermal engine vehicle, reduces CO2 about 1,400 kgr/year.

Greece has an advanced solar thermal industry, covering almost the entire domestic market and exporting production activity. Approximately 80,000 solar water heaters are installed every year in Greece and at the end of 2020 the total surface of solar collectors in our country was **4,989,550 sq.m. (Hellenic Statistic Services)**

The implementation of the new European **REPowerEU** program has contributed to this constantly increasing market in the last decade, with an estimation of tripling the installed capacity of solar thermal units until 2030. "This goal is equivalent to an annual production increase of 600% compared to today's standards, in the next 7 years", Solar Industry Chamber reports.

Incentives to support the use of solar water heaters, was just applied as part of "**Home Energy Saving**" programs, where the total cost of the building upgrade was a deterrent factor for participating. Thus, solar and PV panels or heat pumps, have been included in subsidized appliances replacement programs individually. From May, when the platform was activated, over 250,000 applications were submitted, until June, when it expired. The program supports water heater installation for residences. The Ministry of Environment and Energy has already announced a maximum subsidy amount of **904.84 euros** which is up to 60% of net value.





The piping of solar circuit including panels, connections to boiler, exchanger, filters, reducer, valves and safety valves, should be insulated with foam insulation $\geq 13\text{mm}$ thick due to the high temperatures that develop and with resistance to UV solar radiation (with white or black PVC film covered with a special protective paint).

ISOPIPE SA stands out with a successful presence in Greece as well as in 40 countries around the world. Specialized in the field of integrated synthetic rubber insulation systems, for air conditioning, heating, water supply, ventilation & cooling. A market leader, the only one with a production plant in Greece with worldwide distinctions and a wide range of innovative products, such as a series of pre-insulated pipes and more, for high standard installations.

Specialized in the production of **NBR** and **EPDM** elastomeric foam insulation systems, featuring a significantly high percentage of 98.5% of closed cells, which works excellent in a wide range of temperatures from -50°C to $+150^{\circ}\text{C}$. The complete range of **ISOPIPE** includes several products for external insulation protection, ensuring high resistance against UV radiation, leakage, and corrosion, including **SOLAR** and Aluminum Coverings.



Following the needs of the market and the need for fast installation, **ISOPIPE S.A.** production plant, based on the advantages of NBR insulation and coverings, created and produced pre-insulated pipes, under the name **ISOSOL**, which is available in single and twin pre-insulated pipes, for fast and easy installation. **ISOSOL TWIN** pre-insulated pipes, an innovative composition of two insulated tubes with or without integrated cable, easy cleaning, and long-lasting performance of insulating capacity. Ideal for connecting boiler panels in simple or forced circulation solar thermal systems. In addition, the integrated cable ensures the easiest and safest connection between thermostats and the corresponding tanks.

ENERGY SAVING
over
80%
CE Covers European and
International Regulations

ISOSOL

The vision of harmonizing **ISOSOL** with the needs of the market not just at logistics level, but also as an ideal solution with respect for environment and human health, proves the social responsibility of **ISOPIPE**, the Greek company with high technical know-how and a dominant footprint in the global industrial map.

