

Solar Water Heaters

Every family needs on average 120-240 liters of hot water daily for various household needs. The given requirement may be fulfilled without burning fossil fuels and greenhouse gas emissions. 50 000 - 100 000 AMD (in case of natural gas) and 110 000 – 220 000 AMD (in case of electric energy) may be saved per annum by installing a solar water heating system with the surface 2-4 m². The solar water heater works based on the following principle: water passes through solar collectors (or panels), which heat the water. The solar collector absorbs solar light energy and transforms it into thermal energy.

There are various types of solar collectors: with vacuum or flat tubes, different sizes and constructions, technical parameters and terms of service, as well as prices. As to the current rates (September 2016), the payback period for such technologies is 2.5-5 years. When choosing a solar water heater, do consider that solar radiation differs during summer and winter months at approximately 2.5 times.

You may contact the Armenian Green Technologies Center in order to obtain information and advice on the design of solar energy systems and selection of equipment and suppliers, financial resources, as well as for installation and maintenance.

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