USAID | ARMENIA
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Commercialization of Energy Efficiency Program in Armenia
11 Proshyan Street, Yerevan. Armenia; Tel./Fax: (37410) 588983, 547657; E-mail: info@aeai.am; URL: www.aeai.am

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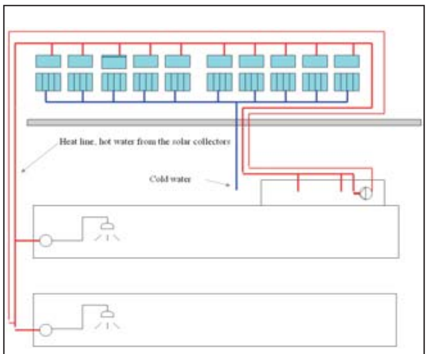
PILOT PROJECT BULLETIN

NEW SOLAR PROJECT IMPLEMENTED BY CEEP

The USAID funded Commercialization of Energy Efficiency Program, managed by Advanced Engineering Associates International, has implemented a solar water heating project in one of the summer camps in Tsaghkadzor. The project belongs to the category of socially-oriented initiatives undertaken by CEEP. The summer camp belongs to "ACS IC Our Lady of Armenia Convent" - a benevolent organization with an office in Yerevan which raises money for various charitable purposes. The project was co-sponsored by USAID and this charitable organization.



The scheme of the solar system

The camp operates whole summer and hosts children from socially deprived families. Nearly 1000-1200 children from 6 to 15 years old from poor families of Gyumri and Djavakheti Armenian-populated region of Georgia spend their summer vacation in the camp free of charge.

The summer camp has a high demand for hot water for domestic needs. Lacking natural gas, water was heated with electricity which was very costly and inefficient. Within the framework of the project CEEP installed solar water heating collectors which helped the institution to address its water heating issue. The objective of the project was to demonstrate the benefits of renewable energy technologies that can potentially replace conventional energy sources, such as electricity, in water heating.

Pilot Project Information:

- USAID Contractor: AEAI Armenia
- Date: July - October 2009
- Site: Summer Camp in Tsaghkadzor, Armenia

The project implementers installed 120 m^2 of flat plate solar collectors, four 1/2-ton storage tanks and all system control components. Tsaghkadzor has excellent solar irradiation due to its favorable geographic location. Therefore, use of solar technologies will be promising in terms of money and energy savings. For example, the annual cost and energy savings realized due to the implementation of this project were estimated to 3 million Armenian drams and 400.8 MWh, respectively.


Solar collectors installed on the roof

CEEP has implemented several solar energy projects, some of which were combined with heating system rehabilitation projects. Solar technologies prove to be cost effective, environmentally friendly and reliable which require almost no-cost exploitation. We hope that this pilot project can be used as a model to inspire the development of other solar water heating projects in greater numbers.


Holiday event in the camp