Commercialization of Energy Efficiency Program in Armenia
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PILOT PROJECT BULLETIN

COMBINED GAS AND SOLAR WATER HEATING SYSTEM INSTALLED IN THE CENTER FOR SOCIAL ASSISTANCE IN GYUMRI

Starting from April through July 2009, Commercialization of Energy Efficiency Program (CEEP) implemented a project on installation of combined gas and solar water heating system in the Center for Social Assistance in Gyumri. The project cost was equally shared between USAID and "ACS IC Our Lady of Armenia Convent" charitable organization from Yerevan which founded this Center.

Boilers installed at the boiler house of the Center for Social Assistance

The Social Assistance Center provides support to children from vulnerable families both socially and financially. It also serves as an orphanage for children. There are 41 children, 28 of whom live in the center permanently. There are 13 children from poor families which visit the Center but don't live there. The Center organizes different courses and classes: foreign languages (English, French and Italian), computer classes, etc. The services of the center are free of charge.

Energy efficiency measures included the following:

Pilot Project Information:

- USAID Contractor: AEAI Armenia
- Date: April - July 2009
- Site: Center for Social Assistance, Gyumri, Armenia

•Installation of high efficient gas – fired boilers with total capacity of 500 kW for space and water heating,

• Construction of the gas line from the main point to the boiler house,

• Installation of solar water heating system (60 m^2 flat plate solar collectors) with the back up of natural gas including system control components.

Solar collectors mounted in the Center for Social Assistance

There is a Cultural and Sports Hall on the territory of the Center where different sports and public events are organized. Part of the building has been reconstructed to serve as a boiler house. Combined gas and solar system will supply both heat and hot water to the Cultural and Sports Hall as well as to the orphanage. Solar collectors heat the water supplied through the boiler house to a certain degree thus reducing gas consumption. Annual money savings from both the solar water and gas heating system will make approximately 7.5 mln. AMD.