Commercialization of Energy Efficiency Program in Armenia
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PILOT PROJECT BULLETIN

HEATING PROJECT COMPLETED AT THE KINDERGARTEN #12

In December 2008, CEEP completed one of its socially-oriented projects on installation of local heating system at the Kindergarten Ռ12 - another day care institution which benefited from the services of this USAID-funded program. The project was implemented on a mandatory cost share basis, with 50% of the project cost having been contributed by the administration of Nor Nork community. Despite the fact that CEEP is aimed at facilitating implementation of bankable energy efficiency projects, socially-oriented activities are still considered to be vital component of the program. To support institutions with scarce financial resources, CEEP targets a portion of USAID□s assistance to the implementation of energy efficiency projects in medical, educational and other institutions of high social importance.

Boilers installed in this kindergarten

It is the second kindergarten in the Nor Nork community where heating system has been rehabilitated with USAID and CEEP support by the request of the community administration which agreed to contribute the cost share portion. The kindergarten is located in a densely populated residential area and provides day care services to nearly 100 children. It occupies a two-story stone building with the total heated area of 980 m^2. Lacking centralized heating, the administration of the kindergarten uses electricity for space and water heating needs. Because of the high cost of electricity, corridors and most of the rooms were not properly heated which negatively influenced children□s health and resulted in low attendance level during cold period.

Pilot Project Information:

- USAID Contractor: AEAI Armenia
- Date: July - December 2008
- Site: MKindergarten #12, Yerevan

As a result of this project following activities were accomplished:

- Construction of a boiler house equipped with high efficient boilers (4*28 kW), circulation pumps and all other necessary equipment;
- Construction of the gas line from the main line to the boiler house;
- The entire external and internal heating network was renovated, and regulating valves were mounted on radiators for occupants to control the room temperature.

The techno-economic analysis made for this project showed that the on-site energy savings due to fuel switching from electricity to natural gas were estimated to 319 MWh, and annual energy cost savings would be about 1.5 mln Armenian drams. Besides, the comfort level provided by natural gas heating is incomparable to that of electricity. The project will certainly contribute to better functioning of the kindergarten in winter and will help to protect children□s health through better conditions.

More comfortable conditions for children to eat, sleep and play