Commercialization of Energy Efficiency Program in Armenia
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PILOT PROJECT BULLETIN

LOCAL HEATING SYSTEM REHABILITATION PROJECT AT THE MEDICAL EMERGENCY SERVICE IN YEREVAN

Medical Emergency Service provides a quick and timely response to emergency calls of the population for all kinds of cases and accidents which require medical intervention. The Service headquarters is located in Yerevan with the staff of 260 employees. The number of annual emergency calls made by the population is as many as 30,000.

Construction of the boiler house in process

In the end of 2008, Commercialization of Energy Efficiency Program (CEEP) funded by USAID included the Medical Emergency Service into its portfolio of socially-oriented projects in order to rehabilitate the heating system of the Service to modern standards of efficiency. The project has been cost-shared in the ratio of 47 and 53% by the Medical Emergency Service and the USAID.

Newly installed boilers

Until now the building has been heating by electricity which was also used for water heating purposes. Since electricity is quite expensive when used for heating it has been decided to rehabilitate the heating system of the Service and converting it to natural gas which would increase reliability and efficiency of heat supply. The Service occupies a building with the area of 6500 square meters and the nearest gas line is passing at a distance of 350 meters.

Pilot Project Information:

- USAID Contractor: AEAI Armenia
- Date: August - November 2008
- Site: Medical Emergency Servicer, Yerevan

Energy efficiency measures implemented at this site included the following:

- Installation of high efficiency gas-fired boilers with the total capacity of 280 kW intended for space heating
- Construction of low pressure gas line and installation of a pressure regulating control point
- Renovation of the internal heating system, including radiators equipped with regulative vales to allow controlling inside temperature.

Activities were started in August and completed in the end of November 2008. This project falls under the class of socially-oriented activities initiated by CEEP to support educational, medical and other socially important institutions with limited financial resources. The techno-economic assessment conducted for this project at early stages showed the following indicators. The annual cost savings earned by the Service as a result of fuel switching from electricity to natural gas were estimated to 3.5 mln. Armenian drams. Annual energy savings at source were calculated to 712 MWh. There will be also reduction of harmful emissions such as CO_2, SO_x, NO_x, due to implementation of this project.

Emergency Center in operation