Commercialization of Energy Efficiency Program in Armenia
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PILOT PROJECT BULLETIN

USAID PROVIDED HEAT TO MATERNITY HOSPITAL OF KANAKER-ZEYTUN MEDICAL CENTER

As part of its Commercialization of Energy Efficiency Program (CEEP) funded by USAID Advanced Engineering Associates International implemented local heating system rehabilitation project at the Maternity Hospital of Kanaker-Zeytun Medical Center.

The view of the maternity hospital building

Kanaker-Zeytun Medical Center provides comprehensive medical services including those related to pregnancy and childbirth. Based on the data of 2007, 1082 women received treatment in the hospital. It also serves as the laboratory for the Department of Midwifery and Gynecology of the Yerevan Medical University. However, comfort conditions in the Center are far from being acceptable in winter. Likewise in other places, there has been no centralized heating in this hospital for more than a decade thus leading to deterioration of technical conditions of the building.

These double-circuit boilers provide heat and hot water to the hospital

By the initiative of USAID and the Ministry of Health of Armenia, CEEP included Maternity Hospital into the list of its socially-oriented projects for further rehabilitation of the hospital□s heating system to modern standards. The project was implemented on a cost share basis between USAID and the Medical Center, each contributing 50% of the total project cost.

Pilot Project Information:

- USAID Contractor: AEAI Armenia
- Date: July - November 2008
- Site: Maternity Hospital of Kanaker-Zeytun Medical Center, Yerevan

Energy efficiency measures included the following:

- Installation of four high efficiency double circuit gas - fired boilers with the total capacity of 140 kW intended for space and water heating
- Construction of low pressure gas line;
- Renovation of the internal heating system, including radiators which were equipped with regulative vales for controlling inside temperature.

This project falls under the category of socially-oriented activities initiated by CEEP to support educational, medical and other socially important institutions with limited financial resources. Another objective is to induce other institutions of this kind to raise funds for the implementation of energy efficiency improvements with their own resources. The project implemented at the Maternity Hospital would earn annual cost savings equivalent to more than 3 mln. Armenian drams due to fuel switching from electricity to natural gas. The energy saved at source would be approximately 640 MWh. The new system will allow to substantially reducing energy expenses vis-a-vis the bill to be paid for the same level of heating with electricity and at the same time will improve comfort conditions of the hospital.

Similar radiators are installed in all premises