Commercialization of Energy Efficiency Program in Armenia
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PILOT PROJECT BULLETIN

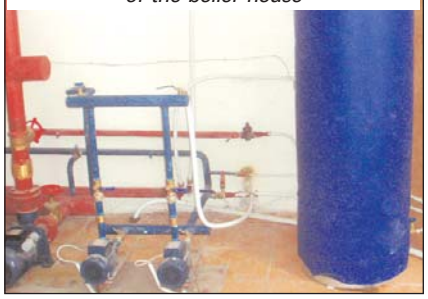
NEW HEATING SYSTEM INSTALLED AT THE CENTER OF FAMILY PLANNING AND REPRODUCTIVE HEALTH

In January 2008, CEEP (Commercialization of Energy Efficiency Program) completed the heating system rehabilitation project in the Center of Family Planning and Reproductive Health.

The Center is one of the leading medical institutions of Armenia in its area of specialization. It is the only center providing health care services to premature infants and serves as the laboratory for the Department of Midwifery and Gynecology of the Yerevan Medical University. Comfort and especially quality heating is indispensable to normal functioning of any hospital, particularly if it offers services to newborn babies. Infants, especially premature ones, are to be kept in special conditions and temperature regime. Besides, hospital needs to have a permanent hot water supply.

High efficiency boilers installed in the Center

Other supplementary equipment of the boiler house



As many other institutions of its kind, this medical center hasn't had centralized heating for more than a decade. In winter they used electrical coils to heat the rooms and provide hot water. When used for heating electricity is a very inefficient option which, in addition to being costly, fails to provide sufficient comfort level. Being committed to improve the situation, the hospital administration applied to CEEP with the request to consider hospital for project implementation and expressed readiness to provide the required cost share. Hospital provided 48% of the total project cost while the rest was shared by USAID/CEEP.

Pilot Project Information:

- USAID Contractor: AEAI Armenia
- Date: September 2007 - January 2008
- Site: Center of Family Planning and Reproductive Health, Yerevan

Following measures were accomplished in this project:

- Construction of a local boiler house equipped with two high efficiency boilers for space and water heating;
- Construction of low pressure gas line from the main line to the boiler house;
- Renovation of the internal heating system, including radiators equipped with regulative vales to allow controlling inside temperature.

New boiler house

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. Another objective is to induce other institutions of this kind to raise funds for the implementation of energy efficiency improvements with their own resources. An important aspect is the feasibility of such projects from the economic point of view. The annual cost savings earned by the hospital as a result of fuel switch from electricity to natural gas were estimated to 38000 USD. Thus, the new system will allow to substantially reducing energy expenses at the same improving comfort conditions of the hospital and the level of services offered to patients.