

## **Project “Energy Efficiency in Buildings in Ukraine – Implementation of a Municipal Energy Management”**

**Client:** GTZ/Integration GmbH in cooperation with experts from e7 (Austria) and the local GTZ-office Kiev

**Period:** 2009 - 2010

### **Executive Summary**

Main activities were the support of development of Municipal Energy Efficiency Programs (MEEP) for four selected municipalities including participation and presentation at the workshop for policy makers in May 2009, the preparation of a paper on the presentation topic and the preparation of the working group meeting in May 2009 including participation, presentation with the focus on energy efficiency improvement in municipal buildings and review of draft versions of MEEP and feedback to the municipalities.

The next main task was the analysis of the municipal building stock in Ivano-Frankivsk including visit of the city in December 2009 with inspection of preselected buildings and performance of feasibility calculations. The same approach was used in Chernihiv in March 2010. The aim was to identify, which share of the municipal building could deliver energy (cost) savings by low- to medium cost optimisation measures. Based on the investigations a guideline for municipalities with instruction for planning and implementation of energy efficiency measures was elaborated and provided to the municipalities.

### **Main Achievements**

The participants of the workshop and team members of the participating municipalities including Ivano-Frankivsk and Chernihiv could get advice and knowledge concerning Energy Performance Contracting, feasibility of different Energy Efficiency measures in buildings and MEEP issues. Main results of the analysis of the municipal building stock in Ivano-Frankivsk and Chernihiv were the identification of energy saving potential in up to 30 public buildings, the results of the feasibility calculations with suggestion of energy (cost) savings by low- to medium and more expensive cost Energy Efficiency measures in preselected public buildings and first Know-how transfer to the technical staff. Additional outcome was the guideline municipalities with instruction for planning and implementation of energy efficiency measures.

For following 4 sites of Ivano-Frankivsk visits and pre-feasibility investigations were performed:

1. Kindergarten No 12



2. School No 13



3. Kindergarten No 23



4. School No 3

