

ABSTRACT

This paper presents a methodology development and the results achieved in the process of establishing energy management system in the City of Kragujevac (Serbia) and in its public services. The paper is an overview of influential factors in the field of energy management, analyzing their impact on raising the energy efficiency of individual utility service and the city of Kragujevac, as a whole.

The influx of investment in the City of Kragujevac made in the last few years is accepted by the administration of Kragujevac as the opportunity for the achievement of required investment for the reconstruction and modernization of the city's municipal sector, but also for the achievement of productive and very demanding cooperation with scientific research institutions. This favorable climate was welcomed by the research team of the Department of Energy and Process Engineering (DEPE) of Faculty of Mechanical Engineering in Kragujevac, who are acting for some time through the Regional Euro Energy Efficiency Center (REEECKG). The Department, according to its development strategy is dealing with issues of energy efficiency for many years and establishing of REECKG has become a part of a wider European and Serbian network of regional energy efficiency centers which in many segments act as an important factors in the creation and implementation of national energy strategy and policy, and in the City of Kragujevac act as a reliable support for energy market development.

Please note that at the top of Serbian network of regional energy efficiency centers is the Ministry of Mining and Energy (MoME) and work of REECKG and other regional centers is directly coordinated by the Serbian Energy Efficiency Agency (SEEA).

Experience gained through cooperation with Serbian regional energy efficiency centers, the Norwegian Energy Efficiency Group (NEEG) and other partners from the Kingdom of Norway, as well from the implementation of a number of scientific, development and commercial projects in the field of energy management, environment protection and sustainable development, has helped REECKG to aid administration of Kragujevac to its energy - environmental development strategy and to create a methodology for benchmarking in order to spread examples of good practice in the region of Sumadija and Pomoravlje, and other areas of Serbia which are in jurisdiction of the Center.

The paper also presents the most interesting scientific and research projects realized in the cooperation of several actors which were coordinated by REECKG. In these projects participated beside REECKG, the MoME, the Ministry of Science and Technology Development, SEEA, European Agency for Reconstruction (EAR), the World Bank (WB), the European Commission, and relevant experts from the government of City of Kragujevac and the municipal companies. The municipal companies together with the city administration are the direct beneficiaries of the results realized in the following areas:

- Development of energy management in municipalities and the establishment of energy planning at the local level;
- Improvement of municipal services by applying energy efficiency measures in public enterprises:
 - “Energetika” (heating),
 - “Cistoca” (communal waste management),
 - “Vodovod i kanalizacija” (water and waste water management);

Promotion of ideas and projects realized in the field of energy management, environmental protection and sustainable development at the Festival of energy efficiency (starting from this year) held during the April in the organization of the City of Kragujevac, REECKG and SEEA.