

Project „Bottom up to Kyoto“ (ButK)

Client: EU-Kommission within the scope of the programm „Intelligent Energy for Europe“

Consortium: ELC (European Lamp Companies Federation) as coordinator, BEA (Berlin Energy Agency) as main partner for the technical support, 5 municipalities from 5 new EU-member countries, EUEW (European Union of Electric Wholesalers), AIE (European Association of Electrical Contractors)

Period: 01.01.2007 - 31.12.2009 (involvement until end of 2008)

Executive Summary

The aim at this project was the significant reduction of CO₂-emissions, energy consumption and operational costs for public lighting (indoor and street lighting) within the 5 participating municipalities in 5 new EU-member countries (Voru/EE, Slovenska Bistrica/SLO, Riga/LV, Raciechowice/PL, Cluj respectively Dej/RO). The project helps to remove existing market barriers regarding the increasing of energy efficiency with public lighting through preparation, development and implementation of pilot projects including implementation of adapted contracting models. At the same time other municipalities are encouraged to adopt and use the Saving Contracting model which was developed within the scope of ButK.

Besides coordinator ELC, the BEA with its know-how was the most important partner in this project and took control over the following tasks:

- Diagnosis (CO₂-emissions, potential savings for existing lighting, analysis regulatory framework for implementation of contracting models with the participating countries, development/adaption of standard contracting models)
- Feasibility studies (at least 1 per municipality) for pilot projects
- Preparation, Implementation of tender for contracting-pilot-projects
- Preparation and completion of Performance Contracts (municipalities-ESCO's) for the pilot projects, evaluation of implementation including results of savings

Main Achievements

Most important achievements until retirement of the project were:

- Analysis of regulatory framework for the implementation of Performance Contracts in all five participating countries, short report
- Support of the municipalities with adaption of the Performance Contracting model based on the model template (2 variants) from the project e-street, www.e-streetlight.com

- Supervision of data acquisition (initial lighting status) by the municipalities or engineering offices
- Implementation of on-site investigations, feasibility studies for potential efficiency measures (pre-audits, pre-feasibility) including demonstration of different models
- Know-how transfer and support with the preparation of concrete tenders in 3 cities

At the end of the project 3 concrete Contracting-projects were implemented. The current situation can be found at the website of the project <http://butk.elcfed.org>.

Picture: street lighting in Dej, RO:

