



**ENERGY
EFFICIENCY
AND RES
WORKSHOP**

Southeast
Europe in focus

**SECOND
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GRADUATE
STUDENT
CONFERENCE**

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**THE CASE OF SUCCESSFUL MACEDONIAN
MUNICIPALITIES – POSITIVE EXPERIENCES
AND LESSONS LEARNED**

Introduction

- Energy efficiency (EE) is one vital part of every country's energy policy;
- Macedonia's progress in the energy sector has been slow, positive in some areas, but with overall unsatisfactory assessment;
- Aim of the research is to show the extent of the progress with EE implementation in Macedonia on local level;
- Municipality of Strumica and Kaprosh are taken as positive examples which have comprehensive EE programmes;
- We take two municipalities as a best practise for the other less developed municipalities in the country allowing for a transfer of know-how.

EE Legal Framework

1. National legislation on energy efficiency:

- Strategy for development of the energy sector until 2030
- National Energy Efficiency Strategy until 2020 – Draft version
- The Energy Law
- First National Energy Efficiency Action Plan (NEEEAP)

2. Responsibilities of the municipalities in the area of EE:

- The legal framework that allows municipalities to engage in EE projects includes:
 - The Energy Law
 - MNEEAP
 - Law on Financing the Units of Local Government

Karposh municipality and EE

1. Strategic Plan for Local Development for the period of 2009-2013;
2. Programme for EE of the municipality adopted for the period of 2008-2012;
3. Newly formed Unit for Energy Efficiency which is officially part of the Sector for environmental protection;
4. Team for EE constituted of four members;
5. Transfer of know-how is done more on personal, individual rather than on institutional level, as there is still no institutional frame for municipal cooperation in a vital area such as energy efficiency.

Karposh municipality and EE

1. Past projects:

- Integrated systems for managing and monitoring street lighting in the municipality (128 separate commands for the street lighting outside the transformer stations);
- Reconstruction of the street lighting with economical light bulbs (overall 3600);
- New object for the municipal building build by the highest energy efficiency standards.

2. Future plans:

- Lighting of the municipal road from Sredno to Gorno Nerezi with autonomous solar bulbs;
- Changing the current 400 W reflectors (overall 244) from the sports playgrounds in the municipality with 140 W reflectors;
- Reconstruction of the lamp posts in the front yards of the schools and kindergartners and changing them with economical ones;
- etc.

Karposh municipality and EE

1. Benefits:

- The spent electricity for street lighting annually was decreased from 16.000.000 to 11.342.000 denars, even though the price of electricity was increased for 10% over this period;
- Progressive decrease of the maintenance costs from 10.000.000 denars to 6.000.000 denars;
- Lower emission of CO₂.

2. Issues:

- Technical
- Funding
- Other

Strumica municipality and EE

1. Programme for Energy Efficiency 2009-2013.
2. Team for energy efficiency in the frames of the local administration:
 - coordination and implementation of EE projects in the municipality and filing reports with the results at the end of the projects;
 - participation in the creation of the municipal budget when it comes to the electricity costs and the maintenance of the municipal building and street lighting;
 - administering the data base for the municipal buildings and following of the energy issues;
 - initiating and coordinating activities with governmental and non-governmental organizations for implementation of EE projects as well as with donor organizations and funds that support local development.

Strumica municipality and EE

1. Past projects:

- Municipal building – replacement of the roof, external doors and windows and renovation of the facade;
- Primary School Vidoe Podgorec – replacement of the windows and doors;
- Primary School Sando Masev – renovation of the façade, replacement of the external windows and doors;
- Primary School Kiril and Metodij village Dabile – replacement of external the windows and doors;
- Primary School Geras Cunev village Prosenikovo – replacement of the internal and external doors and windows.

2. Future plans:

- Programme for gasification of the municipality
- 15 other projects from the Programme for Energy Efficiency 2009-2013

Strumica municipality and EE

- Issues facing:
 - I. Institutional;
 - II. Legal;
 - III. Financial.

Promotional *activities of EE on local level in the European Union*

1. Municipalities as a role model.
2. Campaigns.
3. Networking.
4. Funding energy efficient projects.