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Promoting Energy efficiency to Local Organisations
through dissemination Partnerships in Europe
Best Actions for Collaboration in Countries
for a High efficient Use of energy in Structural funds

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Energy efficiency measures in public lighting -

Brasov Municipality - Romania

Rehabilitation of public lighting by bringing the system at European standards, in accordance with CIE 115/1995 and complying with demands of visibility for public roads in accordance with SR 13433/1999 Romanian standard.

Target Groups	Sector	Field
<ul style="list-style-type: none"> - Local authority - Energy utilities 	<ul style="list-style-type: none"> - Buildings (including municipal properties) - Transport 	<ul style="list-style-type: none"> - Equipment / appliances - Monitoring & Management

ANALYSIS

The Energy efficiency law 199/200 concerning the efficient energy utilisation stipulates the necessity of creating energy efficiency programs for the public interest fields like:- public lighting- transport- heating- public buildings Our project was thought to be in accordance with the local energy policy.

From the beginning there have been established the lighting classes for different road types .The controlling criteria for the motor traffic were:-luminance level and uniformity of the carriage way-lighting of surrounds of the road -limitation of glare, both disability and discomfort-direct visual guidance.

For the pedestrians has been considered that the road lighting should enable pedestrians to discern obstacles or other hazard in their path and be aware of the moments of other pedestrians friendly or otherwise , who may be in close proximity. For this, the lighting on both horizontal and vertical surfaces , as well as control of glare , have been considered vital .The solutions have been established considering the geometry of the existent electrical network.Also. Fotometrical calculations for luminaires have been made on every street with the help of special applications, which were provided by the Romanian producers in the field (Philips and Elba Street Lighting and EnergoBit-Schreder).

These solutions have been implemented by the Public Lighting Office of the Municipality of Brasov.



COST AND BENEFITS

ENERGY SAVED

25% of annual consume- 2 004 Mwh / year

MONEY SAVED

163 300 Euro/year and cost reductions: 70 000 Euro/year (the diminishing of maintenance cost)

LEVEL OF FINANCIAL SUPPORT

500 000 Euro (from the local budget)

SOCIAL BENEFITS

The assurance of a comfortable luminous exterior environmental for motor and pedestrian traffic.

ECOLOGICAL BENEFITS

- Limitation of lighting pollution
- Highest efficacy for minimum energy use
- Utilisation of mercury-free lamps

PARTNERSHIP

The Partnership has been established with :

- The Romanian National Comitee for Lighting (CNRI)- for technical advices
- The Energy supplier S.C. Electrica Transilvania Sud - for the terms of energy supplying
- The Romanian producers in the field (Philips and Elba Street Lighting and EnergoBit-Schreder) for special applications , documents and technical advices
- SAVE-ABMEE (Agency of Brasov for the Management of Energy and Environment) will be involved in this project by creating a permanent automatic surveillance office for monitoring the electrical network parameters , luminotecnical parameters and the general functioning of the lighting system.

RECOMMENDATIONS

The nature of the problems we encountered during the implementation process was mainly a financial one because of the high costs of performant equipment .

The hard process of convincing and understanding the new concept of efficiency in public lighting by the political decision factors .

The evaluation of the implemented solutions has been realised by:

- measuring the fotometrical parameters on the field
- permanent monitoring of energy consum with the support of special applications.

The implementation process was proved successful by:

- assuring an environmental friendly street lighting
- assuring the highest efficacy for minimum energy use
- the diminishing of maintenance cost

TO KNOW MORE

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 : [Public Lighting](#)
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USEFUL INFORMATION

List of Publications

"ELECTRICIANUL" MAGAZINE NO. 8/2002 / ARTICLE CALLED "LUMINA CA VEDETA LA SFARSIT DE AN" (THE LIGHT , A STAR AT THE END OF THE YEAR) /	Manuela Draghicescu /	Artenco Bucharest /	Romanian / 2002
ARTICLE IN "LUCRARILE SIMPOZIONULUI BRASOV-MEDIU, NOIEMBRIE 2002" (SYMPOSIUM S WORKS BRASOV-ENVIRONMENT, NOVEMBER 2002), /	Camelia RATA /	Transilvania University Brasov /	Romanian / in course of publishing

List of Internet sites

[Brasov city-hall public site / http://www.brasovcity.ro](http://www.brasovcity.ro)

["Electricianul" magazine / http://www.electricianul.ro](http://www.electricianul.ro)

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