



E-Street - 05/157

Intelligent Road and Street lighting in Europe

Coordinator

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Intelligent Street Lighting

- Intelligent street lighting
 - A total system including dimmable luminaires, advanced lighting control systems, communication systems and administrative tools
 - Focus on low energy consumption and high functional standard
 - Declines the maintenance costs
 - Increase the safety aspects
- Adaptive lighting
 - Describing the possibilities of dynamically adapt the street light performance according to the actual needs for the given period/time
 - Typically lowered lumen output under good driving conditions, low traffic volumes and low average speed



The E-street project

- Main objectives:
 - Increase the market for intelligent street lighting
 - Describe the market potentials
 - Introduce adaptive lighting into international standards and guidelines
 - Develop financial schemes adequate for intelligent street lighting
 - Demonstrate the technology by provoke new installations, develop administrative tools etc.
 - Document savings potentials
 - Procurement activities by partners



The E-street project - outcome

- Europe can achieve an annual saving of 38 TWh electricity by introduce/retrofit old installations with adaptive lighting, as much as 63.7 % on present annual energy consumption for streetlighting
- During the project period more than 20.000 intelligent street lights (adaptive luminaires) has been installed
- Under the International Commission on Illumination, CIE, a new standard is developed taking into account adaptive streetlighting
- An administrative tool for handling adaptive lighting is set into operation in Oslo
- The energy performance contract (EPC) model is modified for streetlighting purposes
- The project partners has performed a high number of seminars, workshops and presented papers at several international events



The E-street project - Partners

Hafslund Nett AS (coordinator)

City of Oslo

Agência Municipal de Energia de Almada

Black Sea Regional Energy Centre

City of Gothenburg

Javna Razsvetljava d.d

Investitionsbank Schleswig-Holstein

Philips Lys A/S

Eltodo EG

Krajowa Agencja Poszanowania Energii S.A

Selc Eireann Teorante/Selc Ireland Limited

Echelon BV

SITO Oy

Norway

Norway

Portugal

Bulgaria

Sweden

Slovenia

Germany

Denmark

Czech Republic

Poland

Ireland

The Netherlands

Finland



Main Documents

- WP 1 Report on administrative matters
 - WP 2 Market Assessment and Review of energy savings
 - WP 3 Evaluation report on Market penetration and procurement activities
 - WP 4 Report on Provoke a faster development of legislation, standards and guidelines (CIE/CEN/Cenelec/Iso)
 - WP 5 Report on Administrative tools and data handling "customers need"
 - WP 6 Comprehensive report on financial instruments
 - WP 7 Report on dissemination and replication of success
 - WP 8 Report on specific notes/discussions/conferences etc.
- A summarized Project Report



Web-pages

For detailed information and to download documents,
please visit the E-street project web site:

<http://www.e-streetlight.com/>