

Project Fact Sheet

Updated: July 2008

Intelligent Road and Street lighting in Europe (E-Street)

Programme area:	SAVE
Status:	"Terminated"
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Partners:	<i>Organisation, country</i> Hafslund Nett AS Norway Agência Municipal de Energia de Almada Portugal Black Sea Regional Energy Centre Bulgaria City of Gothenburg Sweden Javna Razsvetljava d.d Slovenia Investitionsbank Schleswig-Holstein Germany Philips Lys A/S Denmark Eltodo EG Czech republic Krajowa Agencja Poszanowania Energii S.A Poland Selc Eireann Teorante/Selc Ireland Limited Ireland Echelon BV Holland City of Oslo Norway SITO Oy Finland
Website:	http://www.e-streetlight.com
Objective:	Increase knowledge and awareness of intelligent street lighting and accelerate the use of these technologies in Europe.
Keywords:	<i>Energy saving, street lighting, technology</i>
Duration:	01/2005 – 07/2008
Budget:	€ 1,083, 846 (EU contribution: 50 %)
Contract number:	05/157



SHORT DESCRIPTION

This project has increased the knowledge and awareness of intelligent street lighting and accelerated the use of such technologies in Europe.

The project partners have assessed the energy saving potential for different settings, initiated procurement activities, speeded up the development of legislation and standards, and communicated the "customers needs" on technology and administrative aspects to market players.

More than 80.000 luminaires are now equipped with energy saving intelligent streetlight solutions all over Europe. More than 20.000 of these are directly initiated by the partners of the project.

To avoid conservative attitudes that may hamper the progress in introducing new technology, developing new standards within International Commission on Illumination, CIE (and later CEN) including adaptive lighting are of high importance. Such a revised document is now ready for vote within CIE.

RESULTS

A high number of intelligent streetlights has been installed during the project period

During the project period more than 20.000 intelligent street lights (adaptive luminaires) has been installed by partners directly, another 65.000 units are identified

The integration of adaptive lighting in international guidelines/standards/specifications

Under the International Commission on Illumination, CIE, a new standard is developed taking into account adaptive (intelligent) 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

Broad marketing activities performed by the project partners.

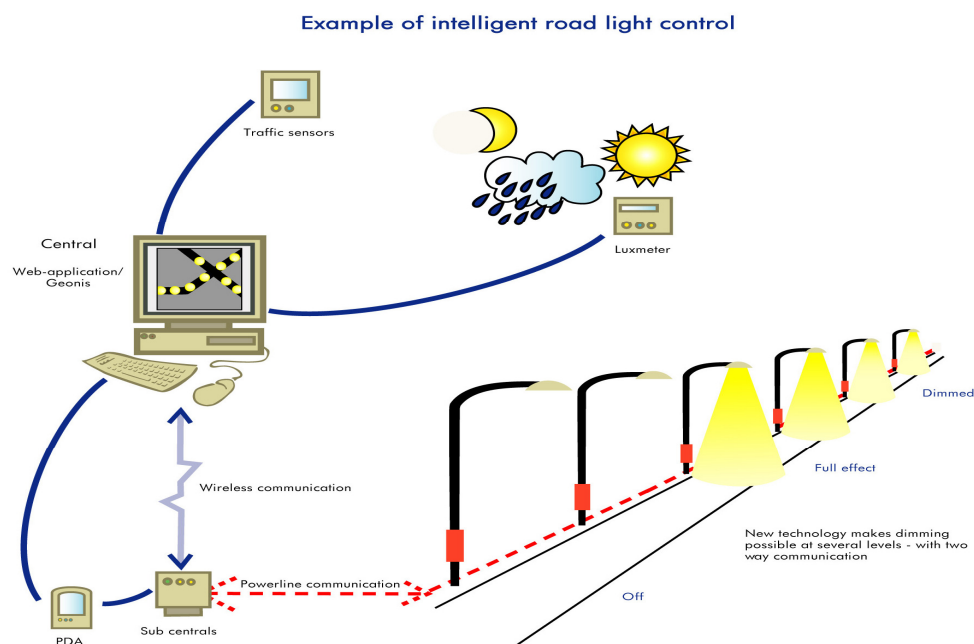
The project partners has performed seminars, workshops and presented papers at several international events. The manufacturing partners reports about a rapid increase of tender documents and tentative projects planned/designed for Intelligent streetlight solutions.

FINDINGS

The market assessment and review report states the energy consumption in the outdoor lighting sector in Europe is estimated to 60 TWh/year, annual commercial savings potential is estimated to **38 TWh**.

Documents available on the E-street webpage:

- About Intelligent Street lighting - incl. a brochure
- Market assessment and Review report
- EPC contracts including a calculation model
- Technical specifications
- Tender document for administrative tools
- About Street light Forum



LESSONS LEARNT

The market for intelligent streetlighting is increasing rapidly. The market players now consider adaptive lighting as an energy efficient solution available in the market for both new and retrofit installations.