



ESOLi newsletter

Interested in adaptive outdoor lighting? Get support from ESOLi!

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ESOLi workshops all over Europe

The **ESOLi (Energy Saving Outdoor Lighting)** project has completed its first year of activities and the task of balancing the first results and the remaining to-do's was the priority of third project meeting held in May by the city of Gothenburg, one of the 16 project partners who bring their strong experience in intelligent public lighting.

Besides the consortium meeting the first Swedish **ESOLi workshop** took place in Gothenburg on 10th May 2011 in parallel with the Nordic region's most important lighting event, the Elfack Fair. Thanks to the brilliant organization of the Traffic & Public Transport Authority in Gothenburg together with the Swedish Transport Administration, the workshop was a great success!

A group of more than 50 people attended, mainly representatives of municipalities and entrepreneurs from Sweden, but also the other 13 ESOLi countries were represented by their ESOLi members. The workshop was colored by a positive energy due to the international character, and the outcome of the "Speed Meeting" sessions which provided many useful suggestions on how to support the market penetration of intelligent street lighting systems.

The weather was also on our side and the Swedish West coast was bathed in lovely early summer sunshine. All delegates were enthusiastic and impressed when they started their journey back home on Thursday after a visit to the Elfack/Lighting Fair where some of the most prominent lighting industry representatives presented a lot of interesting information about what's going on in the outdoor lighting business when it comes to light sources, light fixtures and management systems. See also <http://www.nyttljus.se/esoli-workshop-goteborg.asp>.



Following on from the Swedish workshop, Germany performed their first ESOLi workshop on 19th May, in the framework of the 2011 edition of the Berlin Energy Days. The workshop in the German capital was a real success with more than 80 attendees! Representatives of street lighting companies, public facilities, energy agencies, municipalities, scientific organisations as well as consultants listened to the presentations. Information on existing intelligent solutions for street lighting was given by presenting three best practice

examples, which have been realized in three different German municipalities. In connection to the exemplified projects, energy and cost saving potentials were explained by linking them to smart technologies, like LEDs or management systems. Innovative financial concepts for public lighting providing information on contracting schemes and green procurement of lighting products have been other relevant issues presented to the audience.

During 2011 the project partners will organize **28 informative workshops in 14 countries**, which will be followed by advanced training seminars for lighting professionals. But these are only a few examples of the next project activities. Visit our website to find out more! www.esoli.org

ESOLi is supported by the “Intelligent Energy - Europe” program of the European Union, with the aim of promoting energy efficient solutions for street lighting Europe-wide and increasing the number of intelligent light point installations. **ESOLi offers information and support to municipalities** on specific public lighting issues and intends to support them by developing a series of practical tools. Two of these, the *Best practice catalogue* and the *Benchmarking tool* for evaluation and comparison of different types of lighting projects, will be soon available on the project website.

Good practices

In this section of our newsletter we will show you some interesting examples of intelligent street lighting projects, projects of different types and sizes implemented in different parts of Europe.

Province of Bergamo (Italy)

The Viability and Transport sector of the Province of Brescia, managing more than 130 public lighting installations with more than 10.000 light points, plus special installations related to tunnels and traffic lights, has been experimenting with innovative and high performance solutions in public lighting for several years.

Among the adopted solutions we can find a wide use of power controls combined with remote control systems controlling single light points, experimentation of high performance lighting devices with LED technology, adoption of long life energy saving lamps and installation of passive safety poles. The results:



- **Overall savings** in 6 years: € 1.900.000, equal to 34% of previous costs of public lighting, avoiding the emission of 8200 tons of CO₂;
- Important savings regarding maintenance;
- Higher efficiency of the installations and higher safety level for the street user citizens;
- Less reparation/construction sites on the roads.

Particular attention has been paid to the correct planning of lighting, aiming at the optimization of the future installation management: the objectives are energy saving, management efficiency and increased safety on the 1400 Kms of roads.

Prague pilot project

In January 2011, a worldwide first installation of a new street lighting system has been launched in Prague, in the Smichov district. These luminaires were installed in Plzeňská street (lighting class ME2).

The main objective of this project was to demonstrate the possibility to **effectively illuminate a wide traffic area** of up to 5 traffic lanes and 2 tram tracks.

The system allows controlling of the light output via a computer through a simple web interface. It is capable of switch the lighting system on and off or to set the dimming schemes and schedules. The system also reports failures, allowing the lighting administrator to gather all the necessary data and to manage the street lighting efficiently and effectively.

The hardware part is based on the power line communication (PLC) between separate luminaires and control cabinets. The data from each luminaire are gathered in the control cabinets and transmitted to the internet server using GPRS.



Lighting and energy efficiency news

In this section of our newsletter you will find a selection of news about upcoming interesting events, open funding possibilities and other hints to get involved.

First ESOLi workshop in Italy

On 23rd June 2011 the first Italian ESOLi workshop took place in Brescia, organised by Gruppo Impresa. Experts presented interesting information about energy saving solutions for outdoor lighting, examples of projects carried out by municipalities and collaboration possibilities with ESCOs. The second ESOLi workshop in Italy will be held in autumn 2011. For further information: kubanyi@gruppoinpresa.it.

7th Framework Programme – “Energy” calls coming up

The next round of calls for proposal under the priority “Energy” of the 7th Framework Programme will be published on 20 July 2011. At the moment 5 calls are planned to be launched, among them one regarding “Smart cities” (see also next news). The FP7 programme supports research and demonstration actions which will be on accelerating the development of cost-effective technologies for a more sustainable energy economy. <http://cordis.europa.eu/fp7/energy/>

Launch of new EU initiative “Smart cities and communities”



Cities are key to the EU's objectives of 20% energy saving by 2020 and in developing a low carbon economy by 2050 as *70% of the EU's energy consumption takes place in cities*. Cities that pilot the switch to a smart, low-carbon energy system have huge potential to harvest multiple benefits: saving money thanks to lower energy consumption, boosting employment due to development and roll out of innovative energy technologies, stimulating entrepreneurship through new business opportunities, cleaner air and higher quality of life. The innovative integration of different technologies that make cities and communities “smart” require the commitment and close collaboration of local authorities, citizens, industry (e.g. energy, construction, transport, ICT), financial institutions, and academia. In order to support this process the “**Smart cities and communities**” initiative was launched on 21st June 2011 with kick-off budget of 80 million euro. At the beginning the initiative will rely on the organisational framework of other EU initiatives (Strategic Energy Technology (SET)-Plan, “Covenant of Mayors”, CONCERTO, CIVITAS, Green Digital Charter) and the first call for proposals will be launched in the frame of FP7-Energy on next 20 July 2011.

http://ec.europa.eu/energy/technology/initiatives/20110621_smart_cities_conference_en.htm

International conference: Light 2011 (ECOLOGY-ECONOMICS-EFFICIENCY) 21–23 September 2011, Prague (Czech Republic)

The objectives of this conference organized in the nice context of the Czech capital are the presentation of scientific and technical achievements of experts active in the field of lighting and associated areas, establishment of direct personal contacts between experts from the European countries encouraging them to exchange their experience. To read more: http://www.svetlo2011.cz/index_an.htm

ESOLi workshops in the Czech Republic - autumn 2011

In the Czech Republic two ESOLi workshops will be organized by ELTODO and SEVEN, in order to promote best practices in intelligent street lighting. The first one will take place in Prague on 8 September 2011, the second one on 6 October 2011 in Brno. For further information please check the ESOLi website www.esoli.org.

Professional Lighting Design Convention – Madrid (Spain), 19-22 October 2011

PLDC is a three-day conference built around four tracks offering around 65 papers from internationally renowned speakers and upcoming young professionals. The conference is accompanied by an exclusive manufacturers' exhibition, offering industry partners a platform to present their companies and broaden their business contacts. <http://www.pld-c.com/>

LUCI Annual General Meeting - Gothenburg (Sweden), 16-19 November 2011

After Gwangju (Korea) in 2009 and Chartres (France) in 2010, cities and lighting professionals worldwide are invited to Gothenburg (Sweden) for the LUCI Annual General Meeting 2011. This is the key event of the LUCI calendar and the AGM provides cities the opportunity to share experiences, exchange know-how and learn from each other through conferences meetings, visits and the City People Light award ceremony. See the preliminary program [here](#).

For information about the national ESOLi workshops planned for 2011 please contact the ESOLi contact person of your country!

Get involved! Don't hesitate to contact the ESOLi partners!

- Coordinator:** Sabine Piller
Berliner Energieagentur GmbH (BEA) Germany
- Partners:** European Lamp Companies Federation aisbl, Belgium
Black Sea Regional Energy Centre, Bulgaria
ELTODO EG, Czech Republic
SEVEn, Strediisko pro efektivni vyuzivani energie, o.p.s., Czech Republic
SITO Oy, Finland
City of Göteborg, Traffic and Public Transport Authority, Sweden
Selc Ireland Ltd, Ireland
Gruppo Impresa Finance s.r.l., Italy
Ekodoma, Latvia
Luminext BV, Netherlands
Agency for Road and Transport, City of Oslo, Norway
Krajowa Agencja Poszanowania Energii S.A., Poland
Building and Civil Engineering Institute ZRMK, Slovenia
Javna Razsvetljava d.d., Slovenia
SECE - Spanish Society of Electric Constructions, Spain
- Website:** www.esoli.org
- Duration:** 20/04/2010 - 19/04/2013
- Budget:** EUR 2 112 996 (EU grant: 75%)
- Contract n°:** IEE/09/927/SI2.558319

