



## **E-Street**

**Intelligent Road and Street lighting in Europe**

### **Forum meeting Oslo**

# **EU's initiatives to promote energy efficiency in street lighting**

Mr Tor Mjøs, Norconsult



## Main goal: Cutting Carbon emission

- Energy use and security of energy supply
- On the political agenda
- Clear statements from the EU establishment



## On the political agenda

### **Stavros Dimas**

Member of the European Commission, responsible for environment

### **Energy and environment policies for the future (03 May 2007, Brussels)**

I am proud to say that the integrated energy and climate package adopted by the European Commission in January 2007 – and endorsed by EU leaders at the European Council in March – fully acknowledges this fundamental link.

Our strategy places the battle against climate change at the heart of the new energy policy for the European Union. We are proposing a 30% reduction in the developed world's greenhouse gas emissions by 2020 as part of a new international agreement to control climate change.

Pending this agreement, the European Union has given a firm independent commitment to reduce its own emissions by at least 20% by 2020, in particular through measures in the energy field. We have a wide-ranging Energy Action Plan to meet this objective.



# Legislation

## Legislation

- [End-use Efficiency & Energy Services](#)
- [Energy Efficiency in Buildings](#)
- [Eco-design of Energy-Using Products](#)
- [Energy Labelling of Domestic Appliances](#)
- [Energy Star Programme](#)
- [Combined Heat and Power](#)
  
- [Under discussion](#)
- Eco-design of Energy-Using Products (EuP)



# Eco - design Directives

## Priority Action 1

### Appliance and equipment labelling and minimum energy performance standards

Updated and dynamic labelling and minimum energy performance standards for appliances and other energy-using equipment will be developed as from 2007 on the basis of the Labelling and the **Eco-design Directives**. Special attention will be devoted to standby loss reduction. The Commission will start adopting such requirements for 14 priority product groups with a view to having all of them approved by the end of 2008. The Commission will revise the Framework Directive 92/75/EC on labelling to reinforce its effectiveness. The existing labelling classifications will be upgraded.

The Commission will begin, in 2007, the process of adopting minimum energy performance standards (eco-design requirements) in the form of implementing Directives for 14 priority product groups including boilers, water heaters, consumer electronics, copying machines, televisions, standby modes, chargers, **lighting**, electric motors and other products, in accordance with the time table below. These Directives will also include, to the extent possible, indications of future requirements, e.g., 5 years later, in order to prepare manufacturers for the new requirements in the **design cycle**. The Commission will ensure that appropriate **measuring methods** will be developed on time through CEN/CENELEC or other appropriate means. **Products that do not meet the agreed minimum requirements may not be put on the market.**





# Project Reporting

(Contract TREN/D1/40-2005/LOT9/S07.56457)  
Preparatory Studies for Eco-design Requirements of EuPs

## Final Report Lot 9: Public street lighting

P. Van Tichelen, T. Geerken, B. Jansen, M. Vanden Bosch (Laborelec),  
V. Van Hoof, L. Vanhooydonck (Kreios), A. Vercalsteren

Study for the European Commission DGTREN unit D3  
contact: Andras Toth

Contractor



Subcontractors:



2007/ETE/R/021



VITO

January 2007



## **Energy savings in lighting, conclusions**

- **Excluding High Pressure Mercury lamps**
- **Increased lamp efficacy High Pressure Sodium and Metal Halide lamps**
- **Minimum ballast efficiency**
- **Luminaire maintenance factor**
- **Optic efficiency**
- **Requirements for electronic dimming ballasts**

## Energy savings in lighting

### **EU:s ledare vill byta glödlampor**

**Bryssel En mörk framtid väntar Europas gamla glödlampor. EU-ländernas ledare vill byta ut dem mot energilampor som drar mycket mindre el.**

**Ledamöter från olika** partigrupper försöker få igenom ett uttalande i EU-parlamentet om att traditionella glödlampor bör förbjudas i Europa från 2010.

I slutsatserna från torsdagens och fredagens EU-toppmöte i Bryssel ber statsminister Fredrik Reinfeldt och hans 26 kollegor EU-kommissionen att föreslå högre energisparkrav på kontors- och gatubelysning. De anser att förslaget bör antas 2008. Och 2009 bör nya krav för glödlampor och andra former av belysning i hemmen spikas.



# Energy savings in outdoor lighting

## E-street WP2 Market "blueprint"

- **Energy consumption in outdoor lighting is estimated to 59 TWh/year**
- **Saving potential is set to 38 TWh/year**