

ERSCP 2012: Workshop Design Sheet

Title of Workshop *

Lighting for sustainable business development.

Objectives

To enhance the participants ability to make effective use of the evolving lighting technology in smart lighting solutions, as a base for sustainable business development.

Short Description of Workshop Outline (max. 2000 characters) *

including Relevance and Background

Lighting is a major sustainability concern. There is great technical and business development potential for better lighting solutions. Another aspect is that there is new knowledge about the importance of the quality-of-light for human wellbeing and health.

The development is very rapid for light related technologies and businesses, e.g. smart LEDbased lighting systems. Better control and modern light sources can save 80-90% of the light related electricity. This has been noticed by authorities that have created strong drivers for renewal of the lighting sector, e.g. the EU Ecodesign Directive. It is essential to avoid and stop ineffective use of light. Production of disturbing light, e.g. glare is a double damage. Engagement in better lighting enables three kinds of advantages:

1. Energy savings and reduction of environmental risks

Modern light sources are more energy efficient, they have longer life-time and it is also possible to avoid mercury. Modern sensors and control systems make it possible to minimize useless and disturbing light. There is great potential to save energy and reduce life-cycle cost.

2. Lighting for better work-environment, productivity and attractiveness

Modern light sources and lighting systems are versatile and can be used for dynamic situation and user-adapted solutions. Lighting is one of the most cost-effective ways to improve the atmosphere in a room. The character of the light influences perception, comprehension, spatial awareness, productivity and learning, sense of security, alertness, health and well-being, i.e. the attractiveness as a place to be.

3. Company identity that shows positive engagement

Investments in improvement of the lighting is a clearly visible way to show positive engagement in the respective workplace. A company where the managers show commitment in the work environment is more attractive. For example, improvement of the lighting in a school is a way to show that the school managers think that the pupils and teachers, and their wellbeing and learning are important.

The workshop aims for

- Strategic understanding of the development situation for modern lighting, as a basis for leadership related to work with implementation of better lighting.
- Open dialogue about how better lighting can be used in environmental and CSR branding of the company.

Expected Outcomes and Results

The workshop aims for a meeting of minds between environmental priorities and business development interest, focusing on the societal interest in better lighting. The intention is to improve the common understanding as a basis for awareness rising activities and vocational training to open up for effective utilization of the new lighting technologies.

The workshop can be used to initiate a sustainable lighting network with a basis in knowledge regarding sustainable consumption, social responsibility, environmental control measures, LCA, LCC, ecoinnovation and ecodesign.

Inputs and Presentations

Input 1: Title: The technical frontier for LED and Smart Lighting
Presenter: Kristoffer Johnsson, General Manager, Johnsson Lighting Technology AB

Input 2: Title: The attractiveness of new forms of lighting in architecture
Presenter: Vivi Katarina Henning, Lighting Designer PLDA; Henning Design AB

Input 3: Title: The medical importance of High Quality Light
Presenter: Klas Sjoberg, Physician, Associate Professor, Institution for Clinical Sciences, Malmö, Lund University. Senior Consultant and Vice Head, Dept of Gastroenterology and Nutrition, Malmö, Skane University Hospital, Sweden

Additional Inputs – Comments, Ideas:

Title: High quality lighting as a development opportunity for Europe
Presenter: Reine Karlsson, Professor Ecodesign, Research Director, TEM Foundation at Lund University