



STATENS BYGGEFORSKNINGSINSTITUT  
AALBORG UNIVERSITET KØBENHAVN



SOLAR HEATING & COOLING PROGRAMME  
INTERNATIONAL ENERGY AGENCY

## IEA-SHC Task 50

### “Advanced Lighting Solutions for Retrofitting Buildings”



## 2<sup>nd</sup> Industry Workshop

23 September 2013  
Aalborg University Copenhagen,  
Main Building (ACM 15)  
A. C. Meyers Vænge 15,  
Copenhagen, Denmark

<http://task50.iea-shc.org/>

### Workshop – Topic

Retrofitting of lighting solutions in non-residential buildings

### Date

Monday, 23 September 2013, 9.00-12:30 (lunch 12:30-13:30)

### Location

Aalborg University Copenhagen, Main Building (ACM 15),  
A. C. Meyers Vænge 15, Copenhagen, Denmark

### Registration

Participation fee 750 DKK (100 Euros) including lunch,  
coffee, beverages (no extra fee for Task 50 experts)

Mandatory Registration

The registration is open until 13 September 2013

Limitation of participants: 70

Cancellation policy: Fees will be returned to the participant if  
cancellation is made before 18 September 2013. For later  
cancellations, the full fees will be charged to the participant.

### Information

Additional information on Task 50, the workshop and on  
registration can be found under:

<http://task50.iea-shc.org/>

A Map of Aalborg University showing the Location and how to  
get there:

<http://www.en.cph.aau.dk/How+to+get+there/>

### Organization

Kjeld Johnsen <kjj@sbi.aau.dk> and  
Marc Fontoynt <mfo@sbi.aau.dk>

Danish Building Research Institute, Aalborg University  
Department of Energy & Environment

A C Meyers Vænge 15, 4. Sal  
DK - 2450 København SV

### Return Address

Karin Scheibel and Kjeld Johnsen

preferably by Email: [ksc@sbi.aau.dk](mailto:ksc@sbi.aau.dk), cc: [kj@sbj.aau.dk](mailto:kj@sbj.aau.dk)

Danish Building Research Institute, Aalborg University

Department of Energy & Environment

A C Meyers Vænge 15, 4. Sal

DK - 2450 København SV

### IEA SHC Task 50

### “Advanced Lighting Solutions for Retrofitting Buildings”

### 2<sup>nd</sup> Industry Workshop



## IEA SHC Task 50

---

Lighting accounts for approx. 19% (~3000 TWh) of the global electric energy consumption. Without essential changes in policies, markets and practical implementations it is expected to continuously grow despite significant and rapid technical improvements like solid-state lighting, new façade and light management techniques.

With a small volume of new buildings, major lighting energy savings can only be realized by retrofitting the existing building stock. Many countries face the same situation: About 75% of the lighting installations are considered to be out of date (older than 25 years). Compared to existing installations, the majority of new solutions allow a significant increase in efficiency – easily by a factor of three or more – going along with highly interesting payback times. However, lighting refurbishments are still lagging behind compared to what is economically and technically possible and feasible.

Task 50 targets building owners (investors), authorities, industry and consultants by providing strategic, technical and economic information and by supporting stakeholders overcome barriers in retrofitting lighting installations. The overall objective of this Task is thus to accelerate retrofitting of daylighting and electric lighting solutions in the non-domestic sector using cost-effective, best practice approaches, which can be used on a wide range of typical existing buildings.

The scope of Task 50 is on general lighting systems for indoor environments. The focus is on lighting appliances in non-domestic buildings. Technically, Task 50 addresses daylight utilization through better façade/roof technologies and architectural solutions, electric lighting schemes as well as lighting control systems and strategies.

### Objectives of the workshop

---

- Task experts will inform about general lighting retrofit issues and possible solutions
- General experience exchange between industry and research
- Obtain feedback from industry and learn about practitioners' needs, for successful continuation of the work within IEA SHC Task 50

## Preliminary Agenda

---

9:00-9:15	Welcome and coffee
	Advanced lighting solutions for retrofitting buildings: Introducing IEA SHC Task 50 <i>Jan de Boer, Fraunhofer-IBP, Germany</i>
	Possibilities and risks of lighting-retrofits - Knowledge gained in practice <i>Wilfried Pohl, Bartenbach Lichtlabor, Austria</i>
	Lighting retrofit of a hypermarket - Energy is not the only driver <i>Bernard Paule, ESTIA, Switzerland</i>
	Lighting retrofit: Creativity supported by lighting <i>Henrik Clausen, Fagerhult, Denmark</i>
10:45-11:00	Coffee break
	How to approach the comparison of highly differentiated retrofit technologies on an equal basis? <i>Martine Knoop, TU-Berlin, Germany</i>
	Barriers and benefits for lighting in the building process <i>Peter Pertola, WSP, Sweden</i>
	Relight - On-site inspection of lighting installations and identification of potentials <i>Berat Aktuna, Fraunhofer-IBP, Germany</i>
	Retrofitting buildings – what about daylight? <i>Jakob Strømmand-Andersen &amp; Anne Iversen, Henning Larsen Architects</i>
	Daylight and sustainability - Benefits and Limitations of Voluntary Certification Systems <i>Marie-Claude Dubois, Lund University, Sweden</i>
12:30-13:30	Lunch

## Registration

---

### IEA-SHC Task 50

“Advanced Lighting Solutions for Retrofitting Buildings”

### 2<sup>nd</sup> Industry Workshop

Title / Name:
Organization:
Address for invoice (company address):
CVR no.
EAN No.
Tel:
Email:
Signature:
Please specify allergies or other special eating requirements (vegetarian, vegan, etc.):

Please return this sheet at the latest on 13 Sept. 2013  
preferably by Email to [ksc@sbi.aau.dk](mailto:ksc@sbi.aau.dk), cc: [kij@sbi.aau.dk](mailto:kij@sbi.aau.dk)