FIRST ANNOUNCEMENT AND CALL FOR ABSTRACTS

6th International Conference on Energy Efficiency in Domestic Appliances and Lighting

(EEDAL'11)

24-26 May 2011

Copenhagen, Denmark

Introduction

Citizens and households are responsible for a large share of global energy and electricity consumption and the related emissions into the atmosphere. Residential energy demand is also rapidly increasing, due to larger homes, new services and new appliances and equipment (in particular ICT), putting a strain on the economies and energy infrastructures of both developed and developing countries.

Energy efficiency improvements in *residential appliances, heating and cooling equipment, ICT equipment and lighting* can play a key role in assuring a sustainable energy future and socio-economic development, and at the same time mitigate climate change. Energy efficiency measures related to residential appliances, heating equipment and lighting are in most cases cost-effective CO_2 emission reduction actions, and offer good opportunity to increase the security and reliability of energy supply. In developing countries efficient residential appliances and lighting are vital to improve living conditions and reduce local pollution.

These themes are echoed in a growing number of *policy commitments* and in strategies calling for action at local, regional and global levels. The challenge, now, is to ensure market, policy, trade and information barriers do not impede the timely development and delivery of energy efficient residential equipment, resulting in a missed opportunity for climate change mitigation, security of energy supply and socio-economic development.

In addition, *smart appliances* and equipment, *smart meters* and communication protocols, allows households to be a key part of the *smart grids*, with storage and generation capabilities through renewable energies and *demand response*.

The international community of stakeholders dealing with residential appliances, equipment, metering and lighting (including manufacturers, retailers, consumers, governments, international organisations and agencies, academia and experts) have already gathered five times at the **International Conference on Energy Efficiency in Domestic Appliances and Lighting (EEDAL)** (Florence 1997, Naples 2000, Turin 2003, London 2006, Berlin 2009) to discuss the progress achieved in technologies and policies, and the strategies to be implemented to further this progress.

The previous EEDAL conferences have been very successful in attracting an international audience, representing a wide variety of stakeholders involved in policy implementation and development, and manufacturing and promotion of energy efficient residential appliances and lighting. The EEDAL conference has established itself as an influential and recognised international event where participants can discuss the latest developments and build international partnerships among stakeholders.

Following the success of the previous EEDAL conferences, **the Danish Energy Association** and **the European Commission Joint Research Centre,** in collaboration with **the United Nations Development Programme, the International Energy Agency, and the Collaborative Labeling and Appliance Standards Program (CLASP)** are pleased to announce:

the 6th International Conference on

Energy Efficiency in Domestic Appliances and Lighting – EEDAL'11

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EEDAL'09 will provide a unique forum to discuss and debate the latest developments in energy and environmental impact of residential appliances and lighting, heating and cooling equipment, ITC equipment, smart meters and smart grids, the policies and programmes adopted and planned, as well as the technical and commercial advances in the dissemination and penetration of energy efficient residential appliances, consumer electronics and ICT, heating and cooling equipment and lighting.

The three-day conference will include plenary sessions where key representatives of governments and international organisations, manufacturers and academia will present their views and programmes to advance energy efficiency in residential appliances and lighting, for example, through international co-operation on product information and eco-design requirements. Parallel sessions on specific themes and topics will allow in-depth discussions among participants. The conference will also host ad-hoc workshops to review and advance international collaboration and will provide opportunities to promote new initiatives and partnerships.

Call for Abstracts

To contribute to the success of the conference and to facilitate the adoption of new technologies and the development of new policies and strategies to increase energy efficiency, to mitigate climate change and to foster sustainable development, we **invite you** to participate in the conference and the debates and **to submit abstracts** on the following topics.
Papers can focus on polices, programmes, including evaluation and international collaboration, smart grids and smart metering, new technology developments and user behaviour. All papers shall address new and original developments, in particular on the session on technologies only papers focusing on new advanced solutions will be considered, in addition papers shall not be of commercial nature.

Topics related to Polices and Programmes:

1. **Opportunities for International Co-operation**: focusing on where international co-operation is helpful or necessary to drive innovation and competition, on proposed or new initiatives, policy measures and programmes and on specific issues such as harmonisation, test methods convergence, implementation and compliance, and benchmarking
2. **Climate Change**: impact of appliances, lighting and residential programmes, potential of clean development mechanism (CDM), joint implementation (JI), green investment scheme (GIS), carbon credits as a new funding mechanism.
3. **Lifestyles, Markets and Technologies**: looking ahead at how demand for new products and services is developing; exploring the scope for bringing forward new technology or for technology transfer which will be necessary to keep the lid on consumption or which offers breakthrough to more efficient solution, consumer behaviour.
4. **Focus on Developing Countries and Economies in Transition**: different approaches and strategies, policy framework, institutional aspects, capacity building needs, establishment of testing labs, new international partnerships.
5. **Strategies for Increasing Efficiency**: new policy tools, consensus building, voluntary vs. mandatory approaches, policy analysis and evaluation, stimulating innovation (nationally and internationally), new programmes and barrier analysis, strategy development, priority setting, monitoring and review.
6. **Standards and Labels** (mandatory, voluntary, endorsing label and quality marks): design of and evaluation of programmes, impact of programmes, engineering and statistical analysis, the importance of compliance and enforcement, searchable databases, implementation of the EU Eco-Design Directive for Energy Related Products and EU labelling Directives, new EU labelling scheme, including new studies, international harmonisation initiatives.
7. **Measurement Methods and International Harmonisation**: role of international standardisation bodies, harmonisation of test methods as a mean of removing trade barriers, convergence of test methods, new generation of test methods for intelligent appliances and equipment.
8. **Public and Green Procurement**: policy design and evaluation, instruments, implementation, results.
9. **Market Transformation Programmes**: programme design and implementation, promotion campaigns, advertising campaigns, tools for information and advice for multipliers and end-users, other tools to promote the market transformation.
10. **End-use Metering and home automation**: programme design, methodologies, campaign results, advanced meters, informative billing, role of home automation is saving energy.

11. **Demand Response**: electricity tariffs for the residential sector (time-of-use, peak time rebate, critical peak pricing, real-time pricing), automated response by "smart devices" (smart thermostats, Home Area Network devices), programme design, programme evaluation, successful examples.
12. **Energy Services, Energy Efficiency Funds, Demand Side Management and ESCOs**: provisions of energy services, utilities' obligations, white certificates, DSM programmes, ESCOs role and potential in the residential sector, dedicated energy efficiency funds
13. **Programme Monitoring & Evaluation**: methods for the monitoring and evaluation of programmes and polices, indicators, benchmarking, top down and bottom-up methodologies. Evaluation of energy and carbon savings
14. **Implementation and enforcement of policies**: market surveillance and control, testing regime, products database to help enforcement, international collaboration.
15. **Non Energy issues and benefits**: wider sustainability, including water and resources consumption, life cycle analysis and eco-design, waste implications during and at end of product life, impacts on job creation, fuel poverty and innovation
16. **Financing**: innovative solution for financing efficient appliances and equipment

Topics related to specific Technologies:

1. **Residential Appliances/White goods** (Refrigeration, Washing, Cooking): components' efficiency, R&D, technologies, test methods, usage patterns, programmes, market trends, consumer behaviour.
2. **Residential HVAC** (Central Heating Boilers, Heat Pumps, Room Air-conditioners, Fans), Water Heaters (gas, electric and solar), and Water Circulation Pumps: R&D, technologies, test methods, consumer behaviour, programmes, market trends, links to non-domestic markets.
3. **Consumer Electronics** (Televisions, Set Top Boxes, PVRs, DVDs, Audio, Digital TV services, Power Supplies, telephony), **Office Equipment**[1], **Broadband Communication Equipment**, and **Low Power Modes**: R&D, technologies, test methods, consumer behaviour, programmes, market trends, stand-by losses, active and low power mode, technology transfer from non-domestic market
4. **Residential Lighting** (Luminaires and Light Sources): LEDs, CFLs, R&D, technologies, test methods, consumer behaviour, programmes, market trends, lighting usage, distribution and perception in the residential sector.
5. **Motor Technologies** for appliances (motors for air-conditioners, fans, washing machines, refrigerators, circulation pumps, etc.) and Motor Control Technologies (VSDs, power electronics): R&D, technologies, test methods, programmes, market trends.
6. **Home Automation**: Domestic networks (security, automation, etc.) and their impact on energy consumption, Internet connected appliances, intelligent and advanced meters, technologies for real time pricing.
7. **On-site (residential) Power Generation**: micro-generation, integration of renewable energy sources, electricity distribution issues for the residential sector.
8. **HVAC and passive house**: specific HVAC equipment for passive houses (very low energy houses), integration of equipment and appliances with whole building design, passive techniques, high efficiency ventilation.
9. **Smart Appliances, Smart Homes, and Smart Grids**: smart appliances and equipment, smart meters and communication protocols, households to be a key

[1] Office equipment use and energy saving technology in the residential sector

part of the smart grids, with storage and generation capabilities through renewable energies and demand response.

Instructions for Authors

Authors interested in submitting papers for the parallel session are requested to send an abstract not exceeding 400 words in length and not less than 200 words. The abstract must be in English, typed, and shall contain the following information:

1. Main author name and affiliation, authors for correspondence with full postal address, tel. and fax numbers, and e-mail, and co-authors names and affiliation.

2. The relevant topic selected from the list above

3. Up to five keywords

4. Abstract

Abstracts are due by September 30th, 2010

Abstracts can be e-mailed to paolo.bertoldi@ec.europa.eu or faxed to +39 0332 78 9992

Conference Information

For further information please send a fax to +39 0332 78 9992 or call +39 0332 78 9299

Or visit the conference website:

http://re.jrc.ec.europa.eu/energyefficiency/events.htm

Conference Deadlines

2010 September 30: abstracts are due to conference secretariat

2010 October 20: notification of abstracts acceptance

2010 December 31: draft papers are due to the conference secretariat

2011 January 31: reviewers' comments will be sent to authors

2011 February 28: final papers due to the conference secretariat

2011 May 24-26 conference takes place in Copenhagen.