

ENERGY SYSTEMS AND TECHNOLOGIES FOR THE COMING CENTURY



Risø International Energy Conference 2011

At Risø National Laboratory for Sustainable Energy,
Technical University of Denmark, 10-12 May 2011

First announcement
Call for papers

INTRODUCTION

The world faces a major challenge as global CO₂ emissions must be reduced dramatically, in the long term even beyond zero, in order to limit climate change. At the same time however, it is necessary to provide energy services to accommodate economic growth and, in particular, to meet the growing needs of the developing countries and to ensure secure energy supplies. Furthermore, the energy sector has to cope with the financial crisis which is having a significant impact on almost all countries.

Therefore, significant changes to the global energy systems are necessary, which calls for long-term planning. There is a pressing need to enhance the ongoing development of new and sustainable energy technologies which can provide a key role for renewable energy resources and lead to the phase-out of fossil fuels in the long term.

New, intelligent energy systems are necessary in order to accommodate fluctuating sustainable energy resources to a much greater extent than is currently the case. In such an intelligent energy system, a close link between end-use and supply must be established to create links between low-energy housing, industry and the transport sector.

It will be necessary to utilise all sustainable energy technologies to meet future global energy needs. No single technology will be able to solve the task. The combination of energy technologies will vary from one region to another, depending on local conditions.

Fossil energy resources will, to a large extent, continue to be used in the coming decade, and for this reason it is important that more efficient and climate-friendly fossil energy applications are developed until renewables can assume a leading role in global energy supplies.

Risø International Energy Conference 2011 will enlighten and discuss these subjects with the aim of identifying solutions which can fulfil the urgent global need to change energy technologies in a sustainable direction and create the new intelligent energy systems that can accommodate substantial amounts of fluctuating, sustainable energy.

THE CONFERENCE WILL FOCUS ON:

- Future global energy development options, scenarios and policy issues
- Intelligent energy systems of the future, including the interaction between supply and end-use
- New and emerging technologies for the extended utilisation of sustainable energy
- Distributed energy production technologies such as fuel cells, hydrogen, bioenergy, wind, hydro, wave, solar and geothermal
- Centralised energy production technologies such as clean coal technologies, CCS and nuclear
- Renewable energy for the transport sector and its integration in the energy system.

TARGET GROUP

The target group for the conference is researchers, the energy industry, policy-makers, energy sector decision-makers, funding organisations as well as international organisations, e.g. the EU, IEA and UN.

A number of outstanding speakers will be invited to address the conference in keynote presentations, and the programme will comprise about 50 presentations selected on the basis of this call for papers.

INFORMATION

PROPOSALS FOR PAPERS

The organising committee hereby invites proposals for papers on the aforementioned topics. Abstracts of no more than 300 words should be submitted no later than 1 October 2010.

The scientific programme committee will review and select the papers to be presented and finalise the programme for the conference.

Notification of acceptance will be given by 15 November 2010. The deadline for submitting full papers is 4 April 2011. Proposals for papers, abstracts and full papers can be submitted at www.risoe.dtu.dk/Conferences/energyconf11.aspx

Risø National Laboratory for Sustainable Energy will prepare and e-publish the proceedings to be distributed at the conference.

PRACTICAL INFORMATION

The venue for the conference is Risø National Laboratory for Sustainable Energy, Technical University of Denmark. All sessions will take place in the auditoriums at Risø.

Suggested hotel accommodation in Copenhagen or Roskilde can be found at www.risoe.dtu.dk/Conferences/energyconf11.aspx. Booking is the responsibility of the participant.

A bus service will be arranged between central points in Copenhagen and Roskilde.

The working language of the conference will be English, and no translation will be provided.

REGISTRATION

The registration fee includes an electronic copy of the conference proceedings, lunches during the conference, reception, bus transport and conference dinner. A special discount is offered for speakers, students, including PhD students, and early birds; please see the table below.

Risø International Energy Conference is being sponsored by national and international companies, institutions and organisations.

	DKK excl. VAT	DKK incl. VAT	Euro excl. VAT	Euro incl. VAT
Standard fee	5.600	7.000	750	937,5
Early bird - registration before 31 January 2011	5.000	6.250	670	837,5
Speaker's fee	4.480	5.600	600	750
Student fee	2.240	2.800	300	375

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LOCATION

ROSKILDE

Historically, the city dates back to the Viking Age around the 990s. In the Middle Ages, Roskilde was considered one of the most important cities in northern Europe. Queen Margrethe I was buried in Roskilde Cathedral in about the year 1413, and the cathedral has been used for royal burials since that time. In 1847, the first railway line in Denmark was built between Roskilde and Copenhagen. After that, the town grew as a commercial centre, and today it has a central role as a traffic junction and a centre of education, research, trade and tourism. Roskilde is centrally located on the island of Zealand. With the bridge over the Sound between Sweden and Zealand, the Great Belt Link and the ferries to and from Germany, Zealand is well connected to both the rest of Europe and Scandinavia.



COPENHAGEN

The Danish capital is only 20 minutes away by train from Roskilde. Copenhagen is busily transforming itself into a dynamic and trendy metropolis, successfully enhancing its profile with everything from exciting architecture to design, art, and shopping.



THE ØRESUND REGION

Comprising both the Danish and Swedish sides of the Sound, the Øresund Region is northern Europe's new dynamic region. The Øresund Region is rapidly emerging as a dynamic centre for technology-based industries in northern Europe, and is home to a wide range of advanced, knowledge-based companies within the biotech, pharmaceutical, food science and IT sectors.



THE WEATHER

It's springtime in May in Denmark. The average day temperature for May is close to 11°C (52°F) and the average rainfall is about 40 mm.

RISØ NATIONAL LABORATORY FOR SUSTAINABLE ENERGY

Risø DTU is the National Laboratory for Sustainable Energy. Our research focuses on the development of energy technologies and systems with minimal impact on the climate, and it contributes to innovation, education and policy. Risø has large experimental facilities and interdisciplinary research environments, and includes the national centre for nuclear technologies.

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Risø DTU
National Laboratory for Sustainable Energy



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