



**CA-OE Workshop on Environmental,  
Economics, Development Policy and  
Promotion of Opportunities,  
Denmark, 26 – 27 April 2007**

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United Kingdom Energy Research Centre

[www.ukerc.ac.uk](http://www.ukerc.ac.uk)



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## UKERC - Who are we?

It is UKERC's mission to be the UK's pre-eminent centre of research and source of authoritative information and leadership on sustainable energy systems.

UKERC develops world-class research addressing whole-systems aspects of energy supply and use while developing and maintaining the means to enable cohesive UK research in energy.

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# UKERC - Who are we?



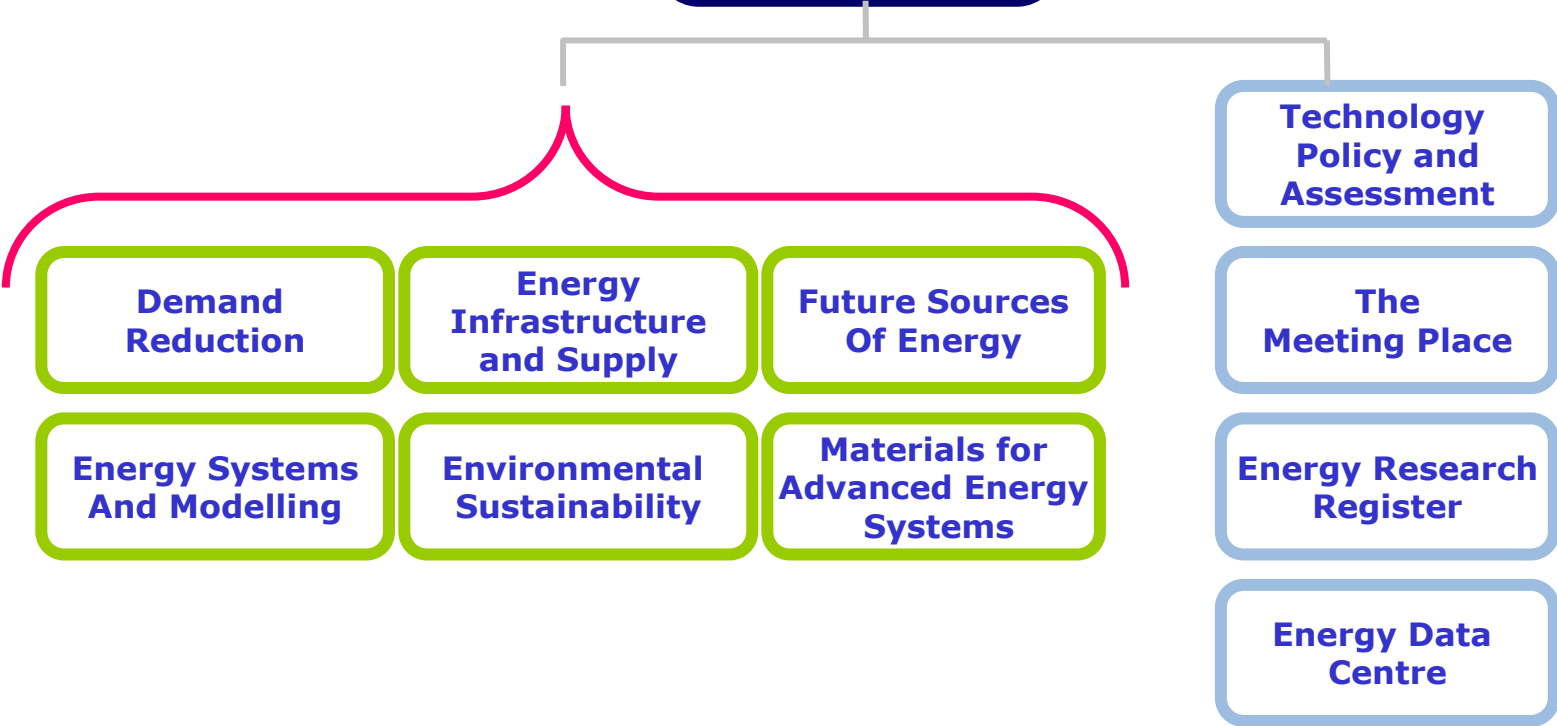
# UKERC Structure



**John Loughhead,**  
executive  
director



**Professor Jim Skea,**  
research  
director



# UKERC Environmental Sustainability Theme

- Environmental Sustainability cuts across UKERC's vertical themes (demand, sources and infrastructure) and relates strongly to the cross-cutting systems and modelling theme.

## Key ES Topics

- Carbon Capture and Storage
- Bioenergy
- Transport
- Marine Energy



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# Energy Research Atlas

“an authoritative and comprehensive account of capabilities and unsolved research problems across the energy domain”

## Research Landscape:

Characterising energy-related research activities and capabilities (program level)

## Research Register:

An on-line searchable database of energy related awards and projects

## Research Route Map:

Identifying the sequence of research and other problems to be overcome before new technologies become commercialised



## Co-ordinated Action on Ocean Energy

CA-OE

- Established and supported by funding from European Commission Sixth Framework Research Programme (FP6) for Energy Environment and Sustainable Development.
- The main objective of this Coordinated Action is to develop a common knowledge base necessary for coherent development of R&D Policies in Europe, the dissemination of this knowledge base and promotion of ocean energy technologies.

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## Co-ordinated Action on Ocean Energy

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Other CA-OE objectives include:

- to bring a coordinated approach within key areas of ocean energy research and development
- to provide a forum for the longer term marketing of promising research deliverables.

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# Co-ordinated Action on Ocean Energy

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Five dedicated interactive workshops:

1. Modelling of Ocean Energy Systems
2. Component Technology and Power Take-off
3. System design, Construction, Reliability & Safety
4. Performance Monitoring of Ocean Energy Systems
5. Environmental, Economics, Development Policy and Promotion of Opportunities

[www.ca-oe.net](http://www.ca-oe.net)

[www.eu-oea.com](http://www.eu-oea.com)

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## CA-OE Workshop – opportunities and barriers

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- Industry needs to concentrate on opportunities and not so much on barriers
- May be other uses of marine energy other than just electricity onto the grid.
- Need to make business opportunities more obvious, e.g. mapping resources and opportunities and making these more public
- National governments need to develop better planning system and policy so we don't have problems of the UK onshore wind
- Governments need to take more risk and not put it onto developers

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## CA-OE Workshop

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### Main environmental issues:

- Habitat and Ecology
  - Noise
  - Fish and Fisheries
  - Pinnipeds, cetaceans, elasmobranches and other wildlife
  - EMF
  - Coastal processes
- Impact of full sized arrays
- Public perception
- Spatial use (conflicts)
- Socio-Economic benefits to Community (not developer)
- In perspective of climate change impacts?



## CA-OE Workshop

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EIA issues:

- Need to define what are the indicators and environmental parameters to be measured.
- What methodology do we use?
- All stakeholders opinions need to be discussed with them and included in EIA before submission.
- *CA-OE to give feedback report in Portugal conference*

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## CA-OE Workshop - Consents

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1. Simplified Planning System
2. One-Stop-Shop.
3. Simplified Planning Zone.
4. Consenting Rounds.

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**Thank you for your attention**

**For more information**

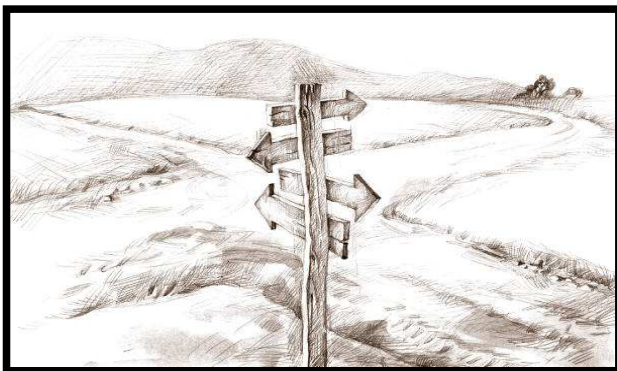
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