

QUANTIFYING ENERGY SCENARIOS OF A LOW CARBON SOCIETY

The Annual Energy Modelling Conference (AEMC) of the
UK ENERGY RESEARCH CENTRE

UKERC's AEMC will consider the characterization of low carbon societies (LCS) and the resulting quantification of LCS through formal energy modelling. The open symposium will review and discuss scenarios for LCS, and provide guidance for a closed expert meeting on comparative modelling of LCS. This ongoing work-stream is part of the Japan-UK Joint Research Project: *Developing Visions for a Low-Carbon Society (LCS) through Sustainable Development.*

Open Symposium: Tuesday December 5th 2006, Ruth Deech Building, St. Anne's College, University of Oxford

Closed Modelling Workshop: December 6th – 7th 2006, Oxford University Centre for the Environment

Co-sponsored by UK Energy Research Centre (UKERC), National Institute of Environmental Studies, Japan (NIES), and the UK Department of Environment, Food and Rural Affairs (DEFRA)

OPEN SYMPOSIUM – Tuesday 5th December 2006 DRAFT PROGRAMME

10.30 – 11.00 Registration and tea/coffee

11.00-11.15 **Welcome to the UKERC AEMC**
Dr David Warrilow, DEFRA (TBC)

11.15-12.30 **Session 1: International scenarios of low carbon societies (LCS)**
Chair and discussant: Dr Neil Strachan, Policy Studies Institute
Dr Junichi Fujino, National Institute for Environmental Studies, Japan
Dr Dolf Gielen, International Energy Agency (TBC)
Open discussion on international research findings on LCS

12.30 – 13.45 Lunch

13.45-15.00 **Session 2: UK scenarios of low carbon societies (LCS)**
Chair and discussant: TBC
Mr Nick Hughes, Policy Studies Institute: UK Energy and carbon scenarios
Dr Filip Johnsson, Chalmers University: Quantifying the RCEP Scenarios (TBC)
Open discussion on international research findings on LCS

15.00 – 15.30 Tea/Coffee

15.30-16.45 **Session 3: Open discussion: Technological vs. behavioural change in LCS scenarios**
Chair: Prof Paul Ekins, Policy Studies Institute
Introduction: Dr Brenda Boardman, University of Oxford (TBC): Thoughts on incorporating behaviour in LCS scenarios
Open discussion on key aspects of LCS

16.45-17.00 **Wrap-up: Key issues for consideration by energy modellers during closed workshop**
Prof Paul Ekins, Policy Studies Institute

Note: Key points from the open symposium will be incorporated into the formal energy modelling discussions, and expanded upon in the workshop summary.

17.00-18.00 **Keynote address: Real-world use of energy models in policy making (TBC)**
Mr Willy Ricketts, Director General Energy, Department of Trade and Industry (TBC)

18.00 Drinks followed by Conference Dinner, Ruth Deech Building, St Anne's College

CLOSED EXPERT MODELLING WORKSHOP
DRAFT PROGRAMME

Wednesday 6th December 2006

7.30 – 8.30 Breakfast in the Dining Hall, St Anne's College

8.30 Make way to Oxford University Centre for the Environment, South Parks Road

9.00-10.30 **Session 4: Top-Down Bottom-up modelling integration issues practices**

Chair: Dr Tim Foxon, University of Cambridge

Dr Toshihiko Masui, National Institute for Environmental Studies, Japan

Dr Chris Bataille, Simon Fraser University, Canada

Dr Tim Foxon, University of Cambridge

10.30 – 11.00 Tea/coffee

11.00-13.30 **Session 5: Energy modelling in developing countries**

Chair: Dr Junichi Fujino, National Institute for Environmental Studies, Japan

Mr Ram Janak, Asian Institute of Technology, Thailand

Mr Subash Dhar, Indian Institute of Management Ahmedabad, India

Mr Li Bin, Beijing Energy Conservation & Environment Protection Centre, China

Dr Alison Hughes, University of Cape Town (TBC)

Mr. Flavio Pinheiro, Brazil (TBC)

13.30 – 14.30 Lunch, University Club

14.30-17.00 **Session 6: Discussion (including tea/coffee)**

Chair: Dr Tim Foxon, University of Cambridge

▪ Stakeholder input and definition of the LCS scenarios;

▪ Issues include:

- Model type: bottom up vs. top down vs. hybrid;

- Modelling of LCS in developed vs developing countries

- Model coverage: energy sector vs. inclusion of wider economic feedbacks, trade, land-use, non-CO₂ GHGs, integrated assessment etc;

- Comparability between model outputs;

- Definition of common base-case and policy scenarios

19.00 Dinner, Cherwell Boathouse, Bardwell Road

Thursday 7th December 2006

7.30 – 8.30 *Breakfast in the Dining Hall, St Anne's College*

8.30 Check out from St Anne's College and make way to OUCE

9.00-10.30 **Session 7: Definition of comparative LCS scenarios for formal modelling**

Chair: TBC

For ongoing work-stream as part of the Japan–UK Joint Research Project:
Developing Visions for a Low-Carbon Society (LCS) through Sustainable Development

10.30 – 11.00 *Tea/coffee*

11.30-13.00 **Continuation of session 7**

13.00 – 14.00 *Lunch, OUCE*

14.00-15.00 **Session 6: Wrap up**

Chair: Dr Neil Strachan, Policy Studies Institute

- Workshop outputs
 - Agreed comparative runs
 - Remaining issues
 - Academic output

15.00 **Close**

Workshop Background

The 2006 Annual Energy Modelling Conference (AEMC) of the UK Energy Research Centre (UKERC) is on *Quantifying Scenarios of a Low Carbon Society*. It is to be a focused technical workshop on modelling low carbon scenarios. A particular emphasis will be on developing country participation. The workshop will define common modelling runs which will be a direct research output to the 2nd UK-Japan workshop on low carbon scenarios (LCS) in June 2007. Further information on the 1st UK-Japan LCS workshop is at http://2050.nies.go.jp/index_e.html. These events represent a core part of the Japan–UK Joint Research Project: *Developing Visions for a Low-Carbon Society (LCS) through Sustainable Development*.

About the Organisers

The UK Energy Research Centre (UKERC) was set up in 2004 to provide a focus for energy research in the UK while galvanising collaborative international energy research. The Energy system modelling theme is led by the Policy studies Institute together with 4CMR at the University of Cambridge. A key supporting function of UKERC is the Meeting Place, based in Oxford, which aims to bring together members of the UK energy community and overseas experts from different disciplines, to learn, identify problems, develop solutions and further the energy debate.

Core Organising Team

Policy Studies Institute: Neil Strachan and Kerry LaJoie

Junichi Fujino, NIES

UKERC Meeting Place Jane Palmer (jane.palmer@ouce.ox.ac.uk) and Rudra Kapila

(rudra.kapila@ouce.ox.ac.uk)