

**Energy in a Low Carbon Economy:
New roles for governments and markets
Programme Outline**

Wednesday 22nd September

- 09:00** **Accommodation Registration**
(Residential Main Porter's Lodge, St John's College, St Giles,
Oxford, OX1, 3JP)
- 09:45** **Conference Registration**
(Garden Quadrangle Foyer)
- 10: 30** **Welcome and Introduction**
Rt. Hon Lord Howell of Guildford , Minister of State , FCO
- 10.45** **First Plenary Session “Energy in a low carbon economy: New roles for
governments and markets”**
Session Chair: Tony White , Conference Chair
Keynote speaker: Dr. Paul Golby, CEO, E.on UK
Christof Ruehl, Chief Economist , BP plc
Prof. David Newbery, University of Cambridge
David Kennedy, Chief Executive , Committee On Climate Change
- 12:45** **Lunch**
- 14:00** **First Parallel Session**
- Session 1** **Creating New Markets to support a Low Carbon Economy**
Session Leader: Jim Watson, SPRU, University of Sussex
- 14.00** ***Liberalised energy markets and energy efficiency - implications for a
Low carbon future***
Dr. Nick Eyre (University of Oxford)
- 14.20** ***Regulating Energy Networks to facilitate the Transition in the Energy
Industry***
Dr. Machiel Mulder (Netherlands Competition Authority NMa)
- 14.40** ***Vertical integration in a growing industry: security of supply and market
access in fuel-ethanol value chain***
Mr. Jin Hooi Chan (Judge Business School, University of Cambridge)
- 15.00** ***Funding nuclear power and radioactive waste***
Professor Gordon MacKerron (SPRU, University of Sussex)
- 15.20** ***Addressing leakage in the EU ETS: Results from the CASE model***

Dr Stéphanie Monjon (CIRED)

Session 2 **Supporting Renewable Energy**

Session Leader: Peter Connor , University of Exeter

14.00 ***Accelerating the development of emerging renewable energy technologies: research and policy challenges***

Dr. Mark Winskel (Institute for Energy Systems , University of Edinburgh)

14.20 ***Measuring the Contribution of New and Renewable Energy R&D to Slowing Down CO2 Emissions in Taiwan with an Integrated Modelling Approach***

Professor Shih-Mo Lin (Chung Yuan Christian University, Taiwan)

14.40 ***Climate policy uncertainty and investment behaviour: Evidence from small hydropower plants***

Dr Oecon Kristin Linnerud (Cicero) , Ane Marte Heggedal (Norwegian University of Science and Technology),

15.00 ***Quantifying Exports and Minimising Curtailment: From 20% to 50% Wind Penetration in Denmark***

Mr. Andrew Smith (London Analytics)

15.20 ***Time to stop experimenting with UK renewable energy policy?***

Dr. Robert Gross (Imperial College)

Session 3 **Enabling Behavioural Change**

Session Leader : Matthew Leach , University of Surrey

14.00 ***Energy, growth and sustainability: five propositions***

Mr. Steve Sorrell (SEG, SPRU, University of Sussex)

14.20 ***A Middle-out Approach to Agency, Capacity, and Societal Change***

Dr. Yael Parag (Oxford University)

14.40 ***Effectiveness energy covenants: International evidence***

Dr. Matthijs de Jong (Erasmus University, Rotterdam)

15.00 ***Making the least reactive pay: A consumer penalty/reward mechanism for Demand Response programs***

Dr. Jacopo Torriti (University of Surrey)

15.20 ***Personal carbon taxation: its role in climate policy***

Dr. Tina Fawcett (Oxford University)

- Session 4** **Transition Scenarios**
- Session Leader: Gareth Davies, Poyry**
- 14.00** *Heat delivery in a low carbon economy*
Mr. Jamie Spiers (Imperial College London)
- 14.25** *Prospects for LNG to contribute to the “20-20-20” targets as a transition fuel*
Mr. John Holding (Independent Practitioner)
- 14.50** *Innovation System for Renewable Energy Industry in Developing Oil-Based Economies*
Mr. Seyed Mohamad Sadegh Emamian, (Edinburgh University)
- 15.15** *The TIAM-UCL Global Energy Systems Model: Critical Comparison of UK and Global Climate Decarbonisation Trajectories*
Mr. William Usher (Energy Institute, University College London)
- 15:40** **Tea**
- 16.00-16.30** **First Parallel Session continued**
Questions and Discussion
- 17.00** **Research Roadshow**
Session Leader: John Holding
- Energy Efficiency And Renewable Energy Financing Districts*
Ms. Nadia Ameli , (UC Berkeley)
- Addressing Organisational Barriers to Innovation: The Case of UK Electricity Distribution Network Operators*
Mr. Ronan Bolton (University of Leeds)
- The Carbon Reduction Agenda and UK Nuclear Energy Policy*
Mr. Jonathan Cooper (University of Central Lancashire)
- OECD-Europe Natural Gas Demand: A Structural Time Series Analysis*
Mr. Zafer Dilaver (SEEC, University of Surrey)
- Formulating Nuclear Energy Policy in the European Union: The Case of Romania*
Mr. Raphael Heffron (University of Cambridge)
- Lights, camera, action! The influence of the climate change film The Age of Stupid on viewers’ attitudes and energy-related behaviour*
Ms. Rachel Howell (University of Edinburgh)

Explaining domestic energy consumption through the use of a structural equation model

Mr. Scott Kelly (University of Cambridge)

Can Existing Approaches to Carbon Abatement Cost Curves Be Improved?

Mr. Fabian Kesicki (UCL Energy Institute)

Investments and energy efficiency in Colombian manufacturing industries

Miss Clara Ines Pardo Martinez (University of Wuppertal)

Bridging the gap- Market interventions for commercial marine energy deployments

Mr. Philip Thies (University of Exeter)

A Technological Innovation System Analysis of the UK Wave Energy Sector using SNA

Mr. Angus Vantoch-Wood (University of Exeter)

The Likely Impact of Mechanism Change on Renewables Targets in the UK: The Reform of the RO and the Introduction of Feed-in Tariffs to the Policy Landscape

Mr Geoffrey Wood (CEPMLP and CECHR, University of Dundee)

18:00 **Drinks**

19:00 **Conference dinner**

After Dinner speaker: James Smith, Chairman, Shell UK
“Stepping up to the Energy Challenge”

Thursday 23rd September

09.00 **Second Plenary Session ‘Economies of scale vs. the Learning Curve’**
Session Chair : Prof. Gordon MacKerron, SPRU , University Of Sussex
Keith MacLean, Head of Policy and Public Affairs , Scottish & Southern Energy
Phil Hare, Managing Director , Poyry Energy Consulting
Joan MacNaughton CB, Senior Vice President , Power and Environmental Policies, Alstom Power

10.45 **Coffee**

11.00 **Second Parallel Session**

Session1 **Global Energy Issues**

Session Leader: John Dimitropoulos, Kema

11.00 ***World Energy Demand in the Long Run***

Ms. Katharina Gruenberg (Shell Research Ltd)

- 11.25** *Energy Equity and Innovation in Emerging Countries*
Mr. Sebastián del Hoyo (University of Buenos Aires)
- 11.50** *The Institutional Framework for China's Energy Transition*
Professor Philip Andrews-Speed (University of Dundee)
- 12.15** *An Evaluation of the Regulation of Incentives for Alternative
Electricity Sources in Brazil*
Dr. Élbias Melo (CCEE, Chamber of Electric Energy Commercialization)
- 12.40** **Questions and Discussion**
- Session 2** **Oil and Gas Markets**
Session Leader: Nick Hartley, Oxera
- 11.00** *Investment in gas storage and the role for government*
Mr. Tom Tindall (Oxera)
- 11.25** *Royalties and Investment: An Empirical Study of the Effect of Royalties on
Investment Decisions*
Dr. Clinton Levitt (Copenhagen Business School)
- 11.50** *Contract Renegotiation and Rent Re-Distribution: Who Gets Raked Over
the Coals?*
Dr. Ian Lange (University of Stirling)
- 12.15** *The oil companies' approach to renewable energy*
Miss Ana Penha (Freelancer)
- 12.40** **Questions and Discussion**
- Session 3** **Investment Incentives in Electricity Markets**
Session Leader: Tony White , B-W Energy
- 11.00** *Can UK electricity markets deliver a low carbon future ?*
Dr. John Rhys (Oxford Institute for Energy Studies)
- 11.25** *Energy in a Low Carbon Economy: New roles for Governments and Markets*
Dr. Serena Hesmondhaigh (The Brattle Group Ltd)
- 11.50** *Development of Electricity System and Markets to Support Low Carbon
Energy System*
Dr. Pierluigi Mancarella (Imperial College London)
- 12.15** *Markets are only good at what markets do - lessons from New Zealand's
electricity market*

Mr. Mike Parker(Transpower New Zealand Limited)

12.40 Questions and Discussion

Session4 Modelling

Session Leader : Lester Hunt (John Dimitropoulos)

11.00 *The Formation of a Domestic and International Market for Tidal Energy Technologies: the Economic Implications for the UK*

Miss Michelle Gilmartin (Fraser of Allander Institute, University of Strathclyde)

11.20 *Modelling the regional impact of biofuels development*

Mr. Grant Allan (Department of Economics, University of Strathclyde)

11.40 *Economic impacts of wind generation variability on gas network operation*

Dr. Modassar Chaudry (Institute of Energy, Cardiff University)

12.00 *On Extracting The Impact Of Consumer Behaviour And The Rebound Effect In Passenger Car Transport In Selected EU Countries*

Dr. Amela Ajanovic (Vienna University of Technology)

12.20 *Stochastic modelling of critical uncertainties in UK long-term decarbonisation pathways*

Dr. Neil Strachan (University College London)

12.40 Questions and Discussion

13:00 Lunch

14:15 Third Plenary Session ‘What can we learn from the BRIC countries?’

Session Chair: Dr. Jim Watson , SPRU , University of Sussex

Speaker tbc

Bernice Lee , Research Director, Energy Environment and Resource Governance, Chatham House

Yulanda Chung , Head of Sustainable Business, Standard Chartered Bank

15.30 Chairmen’s Panel – Summary and report back from the Parallels

16.30 “Personal Carbon Trading – Launch of a Special Issue of Climate Policy”

A presentation hosted by UKERC . Drinks and Canapés.

17.00 Finish

