

Session one: Next frontiers of energy system decarbonisation

What is the role of flexibility in reaching net zero? How important is it in reaching our goals more cost-effectively and what can we gain from putting it at the centre of our net zero journey?

- 10.00** **Opening remarks**
Tom Delay, Chief Executive, the Carbon Trust
- 10.10** **Keynote: What does net zero mean for energy flexibility?**
Dan Hamza Goodacre, Climate and Energy Advisor
- 10.30** **Keynote**
Richard Smith, Co-Director - Energy Systems Management & Security, Ofgem
- 10.50** **Keynote: Next frontiers of energy system decarbonisation**
Julia King, Baroness Brown of Cambridge, Chair of the Carbon Trust

Session one continued

Official launch of Flexibility in Great Britain

- 11.10** **Summary of key findings from the Flexibility in Great Britain project**
Andrew Lever, Director, the Carbon Trust
- 11.35** **Role and value of flexibility in supporting cost effective energy system decarbonisation**
Professor Goran Strbac, Imperial College London
- 12.00** **In conversation with the Carbon Trust and Imperial College London**
Hosted by Janet Wood, Editor, New Power
- 12.30** **End of day one**

Session two: 2050 net zero challenge

The energy system has to undergo major development if we are to reach our 2050 goal. How does flexibility help in scoping and delivering the necessary change? How can it support hard choices between solutions? And what are our 'no regrets' options?

10.00 Welcome

Janet Wood, Editor, New Power

10.10 Keynote

Chris Stark, Chief Executive, Climate Change Committee

10.30 Presentation: 2050 net zero challenge

Hannah Evans, Manager, the Carbon Trust

11.00 Panel discussion: What are the major energy system developments that will be required to achieve net zero by 2050?

- Steve Hargreaves, Strategy Director, EDF Energy
- Alex Coulton, Head of Policy & Insights, Low Carbon Contracts Company
- Becky Hart, Strategy Manager, National Grid ESO
- Nathan Wyatt, Senior Policy Advisor, National Infrastructure Commission

Moderated by Hannah Evans, Manager, the Carbon Trust

12.00 End of session two

Session three: Role of smart technology

What is the value of flexibility solutions enabled through smart technology to a net zero energy system? What are the key barriers and opportunities to unlocking these benefits? What can we do now to prepare for new technologies, new business models and new opportunities? How can different demand customers, from domestic users to major industry, be empowered to take a full part?

14.00 Welcome

Janet Wood, Editor, New Power

14.10 Keynote: The value of flexibility enabled through smart technology

Dr Danny Pudjianto, Advanced Research Fellow, Imperial College London

14.30 Presentation: Unlocking the value from flexibility - challenges and opportunities

Oliver Richards, Senior Associate, the Carbon Trust

15.00 Panel discussion: What is the role of smart technology in unlocking the benefits of flexibility?

- Chris Curry, Head of Flexibility, Bryt Energy
- Jay Zoellner, Chief Executive, Kiwi Power
- Dhara Vyas, Head of Future Energy Services, Citizens Advice
- Dr Danny Pudjianto, Advanced Research Fellow, Imperial College London

Moderated by Oliver Richards, Senior Associate, the Carbon Trust

16.00 End of day two

Session four: Infrastructure development and co-ordination

Flexibility has an important role to play in major energy system infrastructure decisions across electricity, gas and hydrogen. How can infrastructure developers and operators best leverage and support this through effective coordination to unlock whole system benefits?

- 10.00** | **Welcome**
Janet Wood, Editor, New Power
- 10.10** | **Presentation: The role of networks in supporting the transition**
Manu Ravishankar, Associate Director, the Carbon Trust
- 10.30** | **Panel discussion: What is the role of energy networks in supporting a smart and flexible energy transition?**
- Roger Hey, DSO Systems & Projects Manager, Western Power Distribution
 - Keith Owen, Chair of Hydrogen Committee, IGEM and Head of Systems Development, Northern Gas Networks
 - Melanie Bryce, Programme Director, Scottish and Southern Electricity Networks (SSEN)
 - Stathis Mokkas, Energy Markets Lead, UK Power Networks
- Moderated by Manu Ravishankar, Associate Director, the Carbon Trust*
- 12.00** | **End of session four**

Session five: Whole system approach

What is to be gained from a whole-system deployment of flexibility? How can interlinked networks help support a much bigger electricity grid with the electricity system carrying far more power and with linked systems – transport/mobility, heat, industry – working in concert?

- 14.00** | **Welcome**
Janet Wood, Editor, New Power
- 14.10** | **Keynote: Knitting (whole systems optimisation)**
Matt Hastings, Head of Innovation – Energy Systems, InnovateUK
- 14.30** | **Presentation: Whole system approach**
Manu Ravishankar, Associate Director, the Carbon Trust
- 14.50** | **Series of short case study presentations by:**
- EDF Energy
 - Scottish and Southern Electricity Networks (SSEN)
 - Greater London Authority (GLA)
 - Institute of Gas Engineers and Managers
 - The Carbon Trust
- 16.05** | **Closing remarks from the Carbon Trust**
- 16.30** | **End of event**