Energy for a Net Zero Society
achieving a green recovery and a just transition
13 – 14 September 2021, Worcester College, Oxford

Monday 13 September

8.15am Conference Registration & Coffee

9.30am Opening Presentation

Opening Keynote Address: Energy for a Net Zero Society
The Rt Hon Anne-Marie Trevelyan MP - Minister of State (Minister for Energy, Clean Growth and Climate Change), Department of Business, Energy and Industrial Strategy

11.15am Lunch

1.20pm Transitions in fuel. Technology and infrastructure for heating

Dr. Dr Matthew Horizon

1.30pm Balancing act: How to align social and environmental interests with the light of the pandemic in the pursuit of net zero

Sharon Emary, Sustainability First

1.40pm The human capital implications of net zero on the energy sector

Bob Murphy, Energy & Utility Skills

2.00pm Supporting smart running innovation to drive energy savings for fissures and small businesses

Felicity Foreman, Department of Business, Energy and Industrial Strategy (DEIS)

2.10pm Conclusions from the DatapRED project – distributional impacts of flexible electricity tariffs

Dr Timur Yunusov, University of Reading

2.20pm Rebound effects erode half the energy savings from improved energy efficiency: Implications for the Net Zero Transition

Dr Paul Bracken, University of Leeds & Prof Steven Smil, Stanford University

2.30pm Using qualitative social science to investigate the feasibility of decarbonisation pathways: evidence from the FLEXES project

Dr Chris Greene, Cardiff University

3.00pm Technological phase-out experiences in the Energy Sector: Using historic and international analogues to inform national and international scale issues in decarbonisation

Dr Niall Kerr, University of Edinburgh

3.10pm ‘Net zero’ heat decarbonisation policymaking in the UK Sector: Using historic and international analogues to inform national and international scale issues in decarbonisation

Dr Daniel Scamman, University College London

3.20pm National and international scale issues in decarbonisation

Dr. Prof Neil Strachan

4.00pm National Grid

4.10pm The role of interconnectors in decarbonising Great Britain’s electricity system

Dr Wragas Bath, University of Strathclyde

4.20pm Understanding overlapping climate policies: Internalisation of national and international policies

Dr Robert Big, University of Cambridge

4.30pm Delivering a smarter energy system: How microgenerators help deliver a cleaner, more secure and affordable energy system

John Greasley & Tracey Walker, National Grid

4.40pm A low-carbon, net-zero carbon railway

Dr Niamh O’Don, Cranfield University

5.00pm Panel: National and International Scale Issues in Decarbonisation

Chair: Prof Neil Strachan

Panel:
- Mike Thompson, University of Strathclyde
- Paul Martin, European Climate Foundation
- Alex Kazaglis, European Climate Foundation
- Dr Eugenie Dugoua, European Climate Foundation
- Mike Thompson, University of Strathclyde
- Prof Neil Strachan, University of Strathclyde
- Alex Kazaglis, European Climate Foundation
- Dr Eugenie Dugoua, European Climate Foundation

5.10pm Break (movement)

5.40pm National Grid

5.50pm National Grid

6.00pm National and International Energy Professional Session

Chairs: Prof Peter Taylor & Dr Imogen Rattle

Delivering a smarter energy system: How microgenerators help deliver a cleaner, more secure and affordable energy system

John Greasley & Tracey Walker, National Grid

6.10pm Break (movement)

6.20pm National Grid
## Tuesday 14 September

### 9:45am
- **Conference Registration & Coffee**

### 9:50am
- **Keynote Session**
  - **Auditorium**
  - **NASH SUITE, NASH BUILDING**
  - **University and Skills breakfast sessions**
    - **Dr. Susan Petre**, Head Chief Economist, OFGEM
    - **Dr. Yi Vin**, Head Consultant, Clean Energy & Energy Transition, FTI
    - **Dr. Andrew**, Technical Lead, Renewables International
    - **Helena Anderson**, Co-Founder and CDO, Bigai

### 10:15am
- **Keynote Session**
  - **Memorial Room**
  - **Keynote Address: Energy for a Net Zero Society**
    - **Laura Sandys**

### 11:00am
- **Break**

### 11:30am
- **Public Investment, Innovation and Industrial Strategy**
  - **Auditorium**
  - **NASH EAST**
  - **NASH WEST**
  - **SEMINAR HINTON**
  - **MEMORIAL ROOM**
  - **NASH NORTH**

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<td>Public Investment, Innovation and Industrial strategy</td>
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<td><strong>Energy market developments – sandboxes, system operators and blockchain</strong></td>
<td><strong>Dr. Mohtadi</strong></td>
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<td><strong>Social factors – the visual landscape and socio-economic disparities</strong></td>
<td><strong>Prof. Russell McKenna</strong></td>
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<td><strong>The democratic process and scenario planning</strong></td>
<td><strong>Matthew Billson</strong></td>
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<td><strong>Electric cars: prone to disruption by something else entirely?</strong></td>
<td><strong>Aditi Tulpule</strong></td>
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<td><strong>Regulatory sandboxes in the energy sector: are they key to the transition to a net zero future?</strong></td>
<td><strong>Alexandra Schneiders</strong></td>
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<td><strong>What do regional energy systems operators look like in a net zero world?</strong></td>
<td><strong>Matthew Rhodes</strong></td>
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<td><strong>Blockchain Based Energy Trading: Regulatory Changes Proposed and Needed to Facilitate Blockchain in the GB Energy Market</strong></td>
<td><strong>Aditi Tulpule</strong></td>
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<td><strong>Exploring the implications of landscape visual impact of renewable technologies for future low carbon energy systems in Great Britain</strong></td>
<td><strong>Dr. Peter Taylor</strong></td>
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<td><strong>Addressing the socio-economic disparities of net zero transition</strong></td>
<td><strong>Prof. Russell McKenna</strong></td>
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<td><strong>The impact of Digital Technologies on OECD Energy Demand</strong></td>
<td><strong>Dr. Peter Taylor</strong></td>
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<td><strong>Executive session</strong></td>
<td><strong>Roger Hunter, Vice President, Electric Mobility, Shell</strong></td>
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<td><strong>Chair: Dr. Maureen Paul</strong></td>
<td><strong>Claire Thornhill, Frontier Economics</strong></td>
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<td><strong>Panelists</strong></td>
<td><strong>Gwyn Ephraim, Arup</strong></td>
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### 1:00pm
- **Lunch**

### 2:00pm
- **Panel: Net Zero Energy**
  - **Chair: Vivienne Guard**, Deputy Director, Carbon Hydrogen & Industry Analysis, Dept for BEIS
  - **Chris Stark**, CEO, The Committee on Climate Change
  - **Rebecca Sauer**, Corporate Policy and Regulation Director, EDF Energy
  - **Filipos Gasteris**, Director, Energy Economics and Regulation, Arup

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