



**Research-policy workshop on heat decarbonisation**  
**Edinburgh Centre for Carbon Innovation**  
**14 and 15 October 2019**

Scotland is setting a net zero greenhouse gas emissions target for 2045 and many other European countries have similarly stretching targets. In this context, greenhouse gas emissions from heating our buildings are likely to have to fall to near zero by mid-century.

Denmark has recently increased their CO<sub>2</sub> reduction target to 70 percent in 2030 compared to 1990, which makes it one of the most ambitious countries in the world. This requires the development of a new climate agreement with stronger demands for everyone to contribute to the green transition.

Drawing in applied lessons from recent research is essential for building the evidence base to underpin further ambition on decarbonising heating. This workshop will bring together academic and policy communities to consider policy-relevant lessons from recent research on heat decarbonisation for off gas-grid residential buildings.

The workshop will consider the deployment pathways and technology options available for decarbonisation of heat in buildings that are not currently gas-heated, as well as looking at scenario modelling, approaches to heat planning and the challenges of implementation at various scales.

Workshop aims:

- share knowledge and insight between policy makers and researchers
- to survey the existing research and evidence base on heat decarbonisation in off-gas homes
- identify policy-relevant research gaps
- shape a forward research agenda on heat decarbonisation that speaks to policy priorities

**Programme**

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| <b>Day 1</b><br>Monday 14 October 2019 |  |
| 12.30 – 13.00                          | <b>Registration, networking lunch</b>  |
| 13.00 – 13.15                          | <b>Welcome and Chair’s introduction</b> <ul style="list-style-type: none"> <li>• Jan Webb, University of Edinburgh</li> </ul>  |
| 13.15 – 13.45                          | <b>Policy context</b> <ul style="list-style-type: none"> <li>• Gareth Fenney, Scottish Government (TBC)</li> <li>• Mathias Mikkelsen, Danish Energy Agency</li> </ul>  |
| 13.45 – 15.00                          | <b>Session 1: Scenario-focused research to support policy framing</b> <ul style="list-style-type: none"> <li>• Andrew Smith, University College London</li> <li>• Graeme Hawker, University of Strathclyde</li> <li>• Sarah Deasley, Frontier Economics</li> </ul> |



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| 15.00 – 15.30           | <b>Break</b>  |
| 15.30 – 17.00           | <b>Session 2: Heat planning at various scales</b> <ul style="list-style-type: none"> <li>• Faye Wade, University of Edinburgh</li> <li>• Meysam Qadrdan, Cardiff University</li> <li>• Stuart Galloway, University of Strathclyde</li> <li>• Hannah Marczinkowski, Aalborg University</li> <li>• Susana Paardekooper, Aalborg University</li> </ul> |
| 17.00 – 18.30           | <b>Session 3: Policy and governance</b> <ul style="list-style-type: none"> <li>• Rob Gross, Imperial College London</li> <li>• Veit Bürger, Öko-Institut</li> <li>• Kristian Borch, Technical University of Denmark</li> <li>• Nis Bertelsen, Aalborg University</li> </ul>   |
| 19.00 arrival for 19.30 | <b>Dinner</b><br>Blonde Restaurant, 75 St. Leonard’s Street, EH8 9QR  |

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| <b>Day 2</b>            |   |
| Tuesday 15 October 2019 |   |
| 9.00 – 9.30             | <b>Arrival, tea and coffee</b>  |
| 9.30 – 9.45             | <b>Welcome and recap from Day 1</b>   |
| 9.45 – 11.00            | <b>Session 4: Implementation challenges and solutions</b> <ul style="list-style-type: none"> <li>• Matthew Lipson, Energy Systems Catapult</li> <li>• Jan Webb, University of Edinburgh</li> <li>• Richard Lowes, University of Exeter</li> <li>• Louise Krog Jensen, Aalborg University</li> </ul> |
| 11.00 – 11.30           | <b>Break</b>  |
| 11.30 – 12.30           | <b>Session 5: Planning a future research agenda</b><br><b>Discussant:</b> Gerard Davies, The Engineering and Physical Sciences Research Council   |
| 12.30 – 13.00           | <b>Concluding thoughts and next steps</b>   |
| 13.00 – 13.30           | <b>Light networking lunch</b>   |

The workshop will generate a report setting out key issues covered, and insights generated and a summary of the research agenda agreed upon.