

Research Councils-UK *Heat and the City* International Workshop

Sustainable Heating Provisions and Cities: Theory, Practice and Future Implications

When and where:

University of Edinburgh 2-3 October 2014

Venue: Conference Room, Edinburgh Centre for Carbon Innovation,
High School Yards Edinburgh EH1 1LZ



THE UNIVERSITY
of EDINBURGH



Workshop Brief

The core aim of the Workshop is to examine the current state of social science knowledge about processes of establishing sustainable heating provisions in European cities, where dependence on intensive use of energy has been built in to the interlocking material and social fabric. The event brings together speakers from different social science disciplines, with the aim of improving understanding of opportunities for, and constraints on, urban retrofit for energy saving and low carbon heating.

Energy and climate change policies across Europe presage far-reaching societal transformations, and low energy, low carbon, heating presents a major challenge. We start from the perspective that policy instruments have concentrated heavily on macro-scale legislative measures, new technologies and price support mechanisms for electricity on the one hand, and micro-scale individual and household behaviour change on the other. Meso-scale urban energy saving, deployment of heat networks and electrification of heating, however, imply substantial reconfiguration of existing infrastructures, entailing social, technical and political change, and mobilisation of new forms of expertise. Despite national governments looking to city authorities for leadership, policy for capacity development at city-scale has been relatively neglected.

The Workshop focuses not on what the future configuration of heating technologies and resources should be, but on what is, and isn't, being done where, by whom, how and why. By extension, we encourage speakers to develop critical analysis of policy and practice, to avoid normative or functionalist accounts, and to challenge preconceptions in the light of evidence from social research. We invite speakers to consider what needs to change in order to improve prospects for urban sustainable heat provisions, and what, if anything, is missing from or defective in existing policy approaches and technical-economic scenarios. We welcome comparative analysis of cities, types of built environment, inter-relations of energy and finance corporations with politics and policy making to shape emerging solutions and so on. Presenters may also focus on different actors and organisations, whether state, market or civil society domains. Analysis of strengths and weaknesses of different conceptual frameworks, in relation to their ability to explain findings, is encouraged.

Workshop Format

The Workshop is split into five panels; speakers will have 20 minutes to present their paper (15 minutes for graduate researchers) plus additional time for questions and discussion.

We will commence with registration and a buffet lunch at 12.00 on Thursday 2 Oct 2014; first session will begin at 13.00. There will be a dinner on Thursday evening at 19:30 and a full day of presentations and discussions on Friday, concluding at 16.00.

After the Workshop

Following the Workshop we would like to re-circulate papers to delegates and to a small number of academics unable to attend. We would also like to upload the presentations (in pdf format) onto our project website (<http://www.heatandthecity.org.uk/>). Please provide updated copies of your paper and presentation incorporating any revisions or corrections by Friday 17th October. If you do not wish your paper to be circulated and/or your presentation to be posted on our website please let us know by Friday 17th October. Please submit all material to Mags Tingey (Margaret.Tingey@e.ac.uk).

Programme

Thursday 2 October 2014

12:00 Arrival and registration / lunch

13:00 Andy Kerr (Edinburgh Centre for Carbon Innovation) and Jan Webb (Institute of Governance, University of Edinburgh) *Welcome and opening remarks.*

13:10 **Panel 1 Reconfiguring Cities for Sustainable Energy Futures, Chaired by Jan Webb**

Peter Pearson and Stathis Arapostathis (Cardiff University and Kapodistrian University of Athens) *Innovation and transformation in UK gas networks from the 19th Century on*

Andy Karvonen and Simon Guy (University of Manchester) *Heat networks and the shape of low carbon cities*

Angela Pohlmann (Universität Hamburg) *Reproducing or challenging the energy regime? Urban heat projects as social practice and symbolic conflict.*

14:45 Tea/coffee

15:15 **Panel 2 Coordinating Change in Large Technical Systems for Sustainable Heat, Chaired by David McCrone**

Steve Hall (University of Leeds) *The new 'civic' energy sector: implications for ownership, governance and financing of low carbon energy infrastructure*

Dick Magnusson (Linköping University) *When the past is always present: district heating in low density areas in Sweden*

David Hawkey and Jan Webb (University of Edinburgh) *Coordinating heat network development under uncertainty: comparative analysis of nascent heat networks in two British cities.*

16:45 Hanae Chauvaud de Rochefort (UK Combined Heat and Power Association) *Code of Practice for Heat Networks In the UK*

16:50 Round Up Discussion

17:15 Close

19.30 Workshop Dinner, Mother India's Café, 3-5 Infirmary Street, EH1 1LT.

Friday 3 October 2014

08:50 Welcome and introduction

09:00 **New Initiatives in District Heating and Cooling, Chaired by Jan Webb**

Nicolas Février (DHC+, Euroheat and Power, Brussels) *District heating and cooling plans in European cities*

Robin Wiltshire (UK Building Research Establishment) *New initiatives from the IEA District Heating & Cooling programme*

09:30 Panel 3 Inter-Relations of Local and UK Policy and Regulatory Frameworks, Chaired by Andy Kerr

Matt Hannon and Ronan Bolton (Imperial College London and University of Edinburgh) *UK local authority engagement with the Energy Service Company (ESCo) model: key characteristics, benefits, limitations and considerations*

Ronan Bolton (University of Edinburgh) *From simplicity to complexity: evolving processes and practices of energy network regulation in the UK*

Mark Winskel (University of Edinburgh) *Changing scenarios of UK heat energy futures*

11:00 Tea/Coffee

11:20 Panel 4 Can UK Urban Authorities Develop Capacity for Low Carbon Heat Provisions? Chaired by Robert Sansom

Catherine Bale (University of Leeds) *Valuing energy infrastructure: local authority motivations and national policy*

Katy Roelich and Christof Knoeri (University of Leeds) *Community energy projects: why are they constrained by liberalised markets and how can cities help them overcome these constraints?*

Ruth Bush (University of Leeds) *To what extent is the Heat Network Development Unit successful in its support of local authorities?*

Mags Tingey, David Hawkey and Jan Webb (University of Edinburgh) *Mapping UK local authority engagement in energy systems development*

13:00 Lunch

14:00 Panel 5 Sustainable Energy Policy, Politics and Planning in Comparative Context, Chaired by David Hawkey

Daniel Florentin (Université Paris Est) *Torn between transitions: energy transition, post-socialist transition, and transition of Large Technical Systems. In the furnace of district heating system reconfigurations in Magdeburg (Germany)*

Laurence Rocher (Université de Lyon 2) *District heating, urban planning and energy management at a metropolitan scale. The case of Lyon, France*

Sarah Cary (University College London) *Delivering urban energy infrastructure: the capacity of planning and governance networks in the cases of Barcelona, Burlington, Lerwick, London and Toronto.*

15:40 Final discussion and next steps

16:00 Close