

Shaping an integrated market with hot findings and cool solutions

Agenda

7 June 2018 - 11:00–12:30 CET

INTRODUCTION

Hot findings and cool solutions:

A holistic approach to transforming the European energy system

Brian Vad Mathiesen – [Aalborg University](#), coordinating the [Heat Roadmap Europe](#) project

PANEL DISCUSSION

Warming up:

Brief introduction by each panellist to a pitch connected to differing approaches to transforming and decarbonising European energy systems

1. Heating & Cooling savings

The thermomodernisation challenge of decreasing energy in Europe's building stock

Maciej Mijakowski – [Warsaw University of Technology](#)

2. District Heating & Cooling

Identifying and enhancing Europe's district network potential – upgrading traditional systems and integrating 4th-generation network innovations

Jacek Szymczak – *Polish Chamber of Commerce for Heat Engineering (IGCP)*, *Philipp Geyer* – [KU Leuven](#)

3. Heat Pumps

Decentralised technology for decarbonising cities and rural areas

Thomas Nowak – *European Heat Pump Association (EHPA)*

INTERACTIVE DEBATE

Opening up the discussion between panelists, questions from the audience

WRAP-UP AND CONCLUSIONS

Thermal reactions:

Reflections on how to effectively decarbonise heating and cooling at national & EU levels

Paul Hodson, *Head of Unit Energy Efficiency* – [DG Energy](#) and

Brian Vad Mathiesen – [Aalborg University](#)

* *The entire session will be moderated and facilitated by Carsten Rothballer – Coordinator for Sustainable Resources, Climate and Resilience at [ICLEI Europe](#)*



FOCUS

- Rethinking Europe's heating and cooling (H&C) through holistic and next-generation solutions
- State of play of thermomodernisation/savings, district heating and decentralised technologies
- Supplying effective market tools and transferable practices for local to EU decision-makers
- Enabling integrated strategies, policies and economic opportunities for a resilient Energy Union

FRAMEWORK OF THE SESSION

The latest findings of Heat Roadmap Europe 4 (HRE4) provide an overall structure for the session, while the insights and activities from each of the co-organisers, will provide an impulse for starting points and further discussion. The key approaches the session will focus on (H&C savings and the thermomodernisation of buildings, traditional and innovative district H&C systems, and decentralized H&C through renewable technologies) will also feature as the guiding topics throughout the follow-up panel discussion, and will inform the reflections at the end.

Experts in these fields will introduce and offer varying perspectives to engage decision-makers in differing, but complementary, approaches to contribute to a decarbonised energy system, especially through the lens of H&C. Following a holistic overview, the panel moderator will allow four seconded experts to briefly pitch their ideas on specific facets relevant to the discussion.

These introductory (speed) presentations will serve as starting points for the moderator to engage in an interactive debate among panellists. Following these initial discussions among panellists, the moderator will actively integrate other EUSEW participants by opening up the debate to questions and comments from other stakeholders found in the audience. The whole session will conclude with a brief round of final statements from panellists and reflections from other experts having a national and EU-level perspective to H&C issues.



THEMATIC AREAS ADDRESSED

- Technically- and economically-feasible pathways to decarbonise H&C
- Enabling better local to national planning through optimising thermal mapping/modelling
- Challenges for policy-makers at all levels to decide upon and implement cost effective and locally-suitable actions for transforming the energy sector in the short- and long-term
- Suitable business models and finance schemes facilitating a resilient transition
- Facilitating the integration of electricity and thermal sectors for a holistic approach
- Thermomodernisation of buildings and achieving energy savings and the H&C sector
- Strategic interventions to introduce, upgrade, refurbish, expand and innovate district H&C network solutions, as well as tapping into the potential of excess heat and renewable sources
- Current and novel technologies to transform less-urbanised areas through decentralised solutions, such as heat pumps and other renewable technologies

