



Thermal energy systems of the future

– hot trends and cool solutions for cities –

Day 1: Thursday October 17, 2019

Venue: [BIP Brussels](#), Rue Royale 2-4

Moderator for the day: [Donna Gartland](#) from [Codema](#)

09:30	Registration coffee
10:00	<p>Welcome ceremony:</p> <p>Mats Bergh, CEO at Johanneberg Science Park</p> <p>Katrina Folland, Coordinator of the Celsius Initiative</p> <p>A European vision and support for cities in their energy transition</p> <p>Hans van Steen, Acting Director for Renewables, Research and Innovation, Energy Efficiency at DG Energy</p> <p>Gergana Miladinova, Deputy Head for Implementation at DG REGIO's Inclusive Growth, Urban and Territorial Development Unit.</p>
10:40	<p>Keynote speech- providing the big picture and philosophy</p> <p>Tim Caulfield, Director at UIA</p>
11:00	Coffee pause
11:30	<p>Fossil-free Energy Districts: a dream come true!</p> <p>Claes Sommansson, Head of Project Arena at Johanneberg Science Park</p>
12:00	Lunch
13:00	<p>Challenges and solutions addressed by the FED test-bed</p> <p>Moderator: Karin Weijdegård, Communications Officer at Johanneberg Science Park</p> <p>Catrine Norrgård, Head of City of Gothenburg's Brussels Office</p> <p>Jonas Cognell, Project coordinator at Göteborg Energi</p> <p>Claes Sandels, researcher at RISE</p> <p>Zeno Winkels, Business Developer at TU Delft</p>
14:00	<p>A wake-up call</p> <p>Tim Taylor, Senior Cities Advisor at Climate KIC</p>
14:30	<p>Keeping it cool</p> <p>Moderator: Jakob Bjerregaard, Partner at Devcco</p> <p>Jean-Philippe Delangre, Head of district energy at the European Metropolis of Lille</p> <p>Iren Aanonsen, Business Developer at Fortum Oslo Varme AS</p> <p>Jonas Cognell, Project coordinator at Göteborg Energi</p>



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15:15	Coffee pause
15:45	<p>Adapting to an uncertain future with sector integration</p> <p>Moderator: Morten Duedahl, Danish Board for District Heating</p> <p>Herman Eijdens, Innovation Manager at MijnWater</p> <p>James Wilson, Energy Sustainability and Consultancy Manager at Islington Council</p> <p>Peter Bell, Head of district energy in the City of Pijnacker-Nootdorp</p> <p>Monica Axell, Head of Business Development at RISE</p>
16:30	<p>Concluding Ceremony</p> <p>Summary</p> <p>Carsten Rothballer, Coordinator of Sustainable Resources, Climate and Resilience at ICLEI</p> <p>Conclusions</p> <p>Katrina Folland, Coordinator of the Celsius Initiative</p> <p>Mats Bergh, CEO at Johanneberg Science Park</p>
17:00	Networking cocktail
18:00	End of the Day

Preliminary Agenda



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Day 2: Friday October 18, 2019

Venue: [EIT House](#), Rue Guimard 7

08:30	Registration & welcoming coffee Sandro Benz , Climate-KIC
9:00	Workshop round 1 <ul style="list-style-type: none"> - Sustainable Cooling Solutions - Facilitating replication and scaling of demonstrators - Energy Master Planning: HotMaps energy planning tool
10:15	Coffee pause
10:45	Workshop round 2 <ul style="list-style-type: none"> - Sustainable Cooling Solutions - Facilitating replication and scaling of demonstrators - Energy Master Planning: Thermos energy planning optimisation software
12:00	Conclusions from workshops
12:30	Lunch
13:30	End of the Day



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Workshop descriptions

Sustainable Cooling Solutions

Animated by: Jakob Bjerregaard from [Devcco](#)

This workshop will focus on how to get started from nothing with a lean execution model. The model allows for keeping expenses low, while de-risking the project and preparing a business and financial model. Cities can use this model to either establish their own “district cooling utility company” or to attract private developer and investors. It has already been used on multiple cities across Europe.

Facilitating the replication and scaling of demonstrators

Animated by: Magnus Andersson, Partner at [IMCG](#)

In order to achieve a positive sustainable impact on the society, it is vital that promising demonstration projects get funding for all the steps needed until replication and scaling are completed. In this workshop we explore how to facilitate the dialogue between funding agencies, cities and technology providers. We also look into how to design projects and applications that provide the answers needed to understand the risks and opportunities with different solutions, covering topics such as policy and regulation development, community acceptance and market growth, team composition and business models.

Preliminary Trends



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Inspiring energy master planning: Thermos energy planning optimisation software

As energy planners and local governments, increasingly look for energy efficient, low-carbon energy generation and supply options, the session introduces the open-source [THERMOS energy planning software](#) designed to optimise local energy planning processes via an optimization model trained to identify cost-efficient low-carbon network solutions in any given area based on user-specific criteria.

Building on state-of-the-art thermal energy mapping and modelling practices the session looks to accelerate the setup or the modernization and expansion of district heating and cooling networks by showcasing practical means and examples.

Questions to be tackled include:

- How does the THERMOS energy planning software operate and what are its benefits for local energy planning
- When and how to apply THERMOS and its features, including energy system mapping and modelling optimization methods
- How are THERMOS [pilot and replication cities](#) using it in developing their case studies
- how to integrate results of the THERMOS software in urban planning processes

ICLEI Europe moderates the session. THERMOS pilot city Islington (UK) and the Polish National Energy Conservation Agency (KAPE) will discuss the benefits and use of the software with concrete examples.

Participants are invited to bring their laptops to explore the software first hand with us.

THERMOS

Preliminary



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Energy Master Planning: HotMaps energy planning tool

Animated by: Mustafa Fallahnejad, from TU Vienna

The **HotMaps project** develops a [toolbox](#) that supports local, regional and national **heating and cooling planning** processes. The Toolbox is:

- user-driven (developed, demonstrated and validated in close collaboration with [7 European pilot areas](#)),
- open source (the software and all related modules run without requiring any other commercial tool
- EU-28 compatible (the software can be used in all 28 EU Member States thanks to a default open data set).

During this workshop, you will learn how the [HotMaps](#) toolbox can help you to answer the following questions (and more):

- What is the heating and cooling demand in your specific area?
- Are the surrounding renewable and waste heat resources enough to cover the demand?
- What are the costs of different technological solutions?

The presentation will include a short training on how to use the toolbox. Please bring your laptop in order to start **identifying, mapping, modelling and analysing resources and solutions** to supply energy needs within your territory of responsibility in a resource and cost-efficient way.



H°TMAPS