

Heating and cooling planning for greener cities: local resources first!

Final conference of the Hotmaps project

30 June 2020 – 9 to 12:30 CEST

Heating and cooling accounts for almost half of the energy consumption in cities. That is why decarbonising this sector is of utmost importance, if we want and leave in healthier and greener cities – and reach EU 2050 goals. European cities and regions have prepared or are in the process of developing ambitious climate and energy strategies and action plans, committing to net-zero carbon by 2050 – some even earlier. Nevertheless, many governments still need to better identify, analyse and map resources and solutions to make energy demand more efficient on one hand and to meet the demand with efficient, cost-effective and greener energy sources on the other hand.

The Hotmaps project wanted to address this challenge. Leading research institutions in Europe developed a website that allows them to discover an estimate of heating and cooling demand in an area and the potential of local renewable energy to cover this demand. Thanks to different calculations modules, users can also develop long-term scenarios and assess them against different criteria (costs, energy consumption, CO2 emissions). The toolbox was developed together with cities, to make sure Hotmaps is useful for local authorities and city planners.

During this online event, you will get the chance to discuss with the researchers, developers, energy planners and city representatives who developed the Hotmaps toolbox, but also with other peers who are working on energy planning in Europe. You will be able to learn more about Hotmaps while exchanging on the available technologies and possible visions and models to decarbonise heating and cooling.

Provisional programme

9 :00 - 9 :10	<u>Welcome</u> Lukas Kranzl - TU Wien
9 :10 - 9 :30	<u>Introduction</u> Hotmaps, the open source mapping and planning tool for heating and cooling: features and key elements Lukas Kranzl, TU Wien Katarina Pogačnik - Envirodual d.o.o - Hotmaps Follower Moderator: Julien Joubert – Energy Cities
9 :30 - 10 :00	<u>Q&A Sessions</u> In this interactive session, you can discuss in small groups the heat strategies developed by pilot cities or lean more about Hotmaps dataset. A) <u>Urban vs Rural approaches to H&C planning</u> Hotmaps pilot areas: Jimmy O'Leary - Kerry County (EI) , Jeremy Draper – City of Milton Keynes (UK) B) <u>Developing a first H&C strategy with Hotmaps</u>



	<p>Hotmaps pilot areas: Corina Simon – City of Bistrita (RO), Iker Martinez Gonzalez – Fomento de San Sebastian (ES)</p> <p>C) <u>Using own data for H&C planning</u> Hotmaps pilot areas: Etienne Favay – City of Geneva (CH) , Paul Fay - City of Frankfurt (DE)</p> <p>D) <u>Hotmaps data collection & analysis - special focus on the building stock</u> Simon Pezzutto - EURAC</p> <p>Moderator: Julien Joubert - Energy Cities</p>
10 :00 – 11 :00	<p><u>Cities going gas-free: visions and models</u> In this policy session, we will discuss long-term visions and possible models for a city to have an efficient, zero-emission urban heating and cooling system, based on the experience of one city and one citizen cooperative. These visions will be put in perspective with the EU Green Deal vision.</p> <p>Els Struiving - Paddepoel Energiek (NL) Anita Lodberg – City of Aalborg (DK) A representative of the European Institution (TBC) Moderator: Judith Neyer - Urban Innovation Vienna</p>
11 :00 - 11 :10	Coffee break
11 :10 – 11 :15	<p>Wrap-up and launch of parallel sessions Sara Giovannini – Energy Cities</p>
11 :15 – 12 :00	<p><u>Parallel sessions:</u></p> <p>E) <u>Energy planning with Hotmaps & Thermos</u> Marcus Hummel - e-think A representative from the Thermos project</p> <p>F) <u>Developing new calculation modules for Hotmaps: IT infrastructure and best practices for open-source coding</u> Pietro Zambelli - EURAC David Wannier - HES-SO Genève Ali Aydemir - Fraunhofer Institute</p> <p>G) <u>Heat planning processes at local and regional levels & available tools</u> Brian Vad Mathiesen - Aalborg University (tbc) Anders Odgaard - Planenergi</p> <p>H) <u>How to use Hotmaps for the comprehensive assessment of the potential for energy efficiency in heating and cooling required by the Energy Efficiency Directive</u> Lukas Kranzl - TU Wien</p> <p>Moderator: Sara Giovannini – Energy Cities</p>
12 :00 – 12 :15	Wrap up



12 :15 – 12 :30

Hotmaps: what's next?

Jakob Rage - CREM

Stavros Stamatoukos - EU Executive Agency for SMEs

Lukas Kranzl – TU Wien



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