The Hotmaps project

The EU-funded project Hotmaps aims at designing a toolbox to support public authorities, energy agencies and urban planners in strategic heating and cooling planning on local, regional and national levels, and in line with EU policies.

In addition to guidelines and handbooks on how to carry out strategic heating and cooling (H&C) planning, Hotmaps will provide an Heating & Cooling planning software that is

- **User-driven**: developed in close collaboration with 7 European pilot areas.
- **Open source**: the developed tool and all related modules will run without requiring any other commercial tool or software. Use of and access to Source Code is subject to Open Source License.
- **EU-28 compatible**: the tool will be applicable for cities in all 28 EU Member States

The consortium behind

Scientific partners

Pilot areas for developing and testing the tool

What is the Hotmaps toolbox?

Heating and cooling in residential and industrial sectors accounts for half of the EU's energy consumption, but more than 80% of this energy is still generated from fossil fuels. Meanwhile, heat losses are also significantly high. This sector needs to be transformed!

Hotmaps is a website, which allows you to provide within 5 minutes a first estimation of heating and cooling demand in your region and the potentials of local renewable energy to cover this demand. By using more detailed data, thanks to its calculation modules, you can elaborate comprehensive heating and cooling strategies.

What we offer is an open source online software that supports planning processes of the energy sector on the local level in a transparent manner, thanks to:

- a starting data set,
- customisations of the software for your specific needs,
- training and support services.

We applied and demonstrated the values of Hotmaps in seven pilot areas. The software was developed by leading research institutions across Europe together with cities. Go on the website and discover your city's climate neutral energy future.

What is the "Hotmaps follower" training you will get?

Introductory webinar (3 hours, 3 weeks before the workshop):

1. Presentation of the guidelines for strategic heating and cooling planning
2. Presentation of the Hotmaps toolbox and dataset (mapping, scenario generation and comparison, energy system analysis)
3. Detailed explanation of the workshop programme, the preparation process and guiding materials

Workshop Day 1 (12h - 18h)

1. Welcome and short presentation of each participant and its analysis case
2. Presentation of example / pilot cities
3. Exercises and group work I: Mapping and data integration

Workshop Day 2 (9h - 17h)

1. Exercises and group work II: Planning and scenario development (district heating grid expansion, integration of renewables and excess heat, comparison with decentralised heating solutions)
2. Exercises and group work II: Conclusions for heating and cooling strategies

What are the benefits of the “Hotmaps follower” training?

1. You will be trained for free! The participation includes lunch and dinner.
2. You will be one of the first to learn how to use Hotmaps (software, default EU-28 datasets etc. …).
3. You will learn how to develop heating and cooling scenarios for the area of your choice. You will be able to input your own datasets and develop comparable scenarios for your city/area of interest.
4. Your trainer will follow up with you! After the training, you will receive guidance, the trainers will be available for question and additional support.
5. You will be part of the Hotmaps community! Thanks to Hotmaps you will meet representatives from other EU regions and discover shared issues and solutions.

Requirements for participating the training

1. If you work for a local, regional and or national authority that is responsible for heating and cooling topics or if you are a planner or consultant in this field, the training is made for you.
2. You should have an overview of technical characteristics of heating and cooling supply and demand systems. Furthermore, you should be used to work with data and calculations on the computer.
3. You should be available to participate in the preparation web call and attend both days of the 1½ -days training.

Any question?

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