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?

In the Hotmaps follower training you will learn to apply the Hotmaps database and toolbox for developing scenarios for future heating and cooling in your region. The training guides you through the Hotmaps toolchain and you will set up scenarios for a selected region in five steps:

1. Mapping of heat demand and resource potentials
2. Calculation of decentral heat supply costs
3. Calculation of district heating supply costs
4. Calculation of district heating distribution costs
5. Setting up of consistent scenarios for the region

The training will be performed over a period of three weeks with a mix of …

- live sessions / webinars (introduction at the beginning and wrap up at the end)
- videos explaining the data, the platform and the exercises
- exercises to be performed by the participants based on spreadsheets and explanatory documents
- online support sessions with a trainer (optional)

The following steps give an overview of the training. The detailed schedule of the training is shown in the subsequent figures.

- The training will start on Monday 29th June 2020 with a **preparatory webinar** from 10:00 – 11:00 CEST. There the training programme and the platform used for sharing materials and information will be explained in detail.
- Directly after that the first two videos (10 min and 30 min) are provided. After watching the two videos it is possible to fill out the questionnaire (**deadline for filling the questionnaire** is **16:00 Wed 1st July 2020**).
- On Wed 1st July the first set of materials for exercises 1 and 2 are provided in the platform. These include: an explanatory video, a spreadsheet and a document for performing the exercises.
- On Thu 2nd July 11:00 – 12:00 the first online support session takes place where questions can be directly discussed with a trainer
- At the beginning of the second week, on Monday 6th, the materials for exercises 3 and 4 are provided on the platform. These again consist of a video, a spreadsheet and a document.
- Within this second week another two support sessions will be provided where questions can be discussed with a trainer: on Tuesday 7th and Thursday 9th.
- The last package of materials (again video, spreadsheet and document) on exercise 5 will be provided at the beginning of the third week on Moday 13th.
- In the third week another support session will be provided on Tuesday 14th.
- On **Thu 16th July 11:00 – 12:00 the final webinar will take place** including wrap up of the training, introduction to the last assignment, the feedback questionnaire, and possibility for feedback and further discussion.
- At the end of the third week on **17th July all filled out materials should be uploaded to the platform** in order to receive the training certificate: the initial quiz, the 5 exercises text documents and spreadsheets, and the feedback questionnaire.

Free to organise when to perform exercises	Videos and training materials will be posted on the training platform	Webinars – will be held live at the stated time slots	Optional Support session – a trainer will be available in an online room	**Deadline for submission of material**

Week 1 / 3	eLearning - training agenda				
	29.06.2020	30.06.2020	01.07.2020	02.07.2020	03.07.2020
Hotmaps Training concept	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
09:00-09:30			Video and materials will be posted: E1/2		
09:30-10:00					
10:00-10:30	"Preparatory" webinar: Welcome and introduction				
10:30-11:00					
11:00-11:30	Videos will be posted: Intro to planning and data			Support session	
11:30-12:00					
Lunch / break					
13:00-13:30					
13:30-14:00					
14:00-14:30					
14:30-15:00					
15:00-15:30					
15:30-16:00			**Deadline 16:00: Questionnaire, data**		
16:00-16:30					

Week 2 / 3	eLearning - training agenda				
	06.07.2020	07.07.2020	08.07.2020	09.07.2020	10.07.2020
Hotmaps Training concept	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
09:00-09:30	Video and material will be posted: Wrap up of E 1/2 & Intro to E 3/4				
09:30-10:00					
10:00-10:30					
10:30-11:00					
11:00-11:30		Support session		Support session	
11:30-12:00					
Lunch / break					
13:00-13:30					
13:30-14:00					
14:00-14:30					
14:30-15:00					
15:00-15:30					
15:30-16:00					
16:00-16:30					

Week 3 / 3	eLearning - training agenda				
	13.07.2020	14.07.2020	15.07.2020	16.07.2020	17.07.2020
Hotmaps Training concept	Monday	Tuesday	Wednesday	Thursday	Friday
09:00-09:30	Video and material will be posted: Wrap up of E 3/4 & Intro to E 5				
09:30-10:00					
10:00-10:30					
10:30-11:00					
11:00-11:30		Support session		Webinar: Wrap up E 5 and final remarks	
11:30-12:00					
Lunch / break					
13:00-13:30					
13:30-14:00					
14:00-14:30					
14:30-15:00					
15:00-15:30					
15:30-16:00					DEADLINE FOR UPLOAD: 16:00
16:00-16:30					

What are the benefits of the "Hotmaps follower" training?

1. You will be **trained for free**!
2. You will learn how to develop heating and cooling scenarios for one area, which will allow you to develop comparable scenarios for your city/area of interest, using your own datasets.
3. You will receive a **training certificate**, if you have filled out the quiz at the end of the 1st week and uploaded the filled training material and feedback questionnaire at the end of the training.
4. You will be one of the first to learn how to use Hotmaps (software, default EU-28 datasets etc. …).
5. Your trainer will be available at pre-defined **support slots throughout the training** days. The trainers will then be available for question and additional support.

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 follow the introductory and wrap up sessions and have time to perform the exercises in between. For each exercise around 1 – 2 hours is needed in order to understand the idea of how the tool can be used, which is sufficient to pass the training. More time will be needed to go deeper into the analysis case, if this is wanted by the participants.

Registration for the training

Please register using this link.

Any question?

Contact: Marcus Hummel, e-think, hummel@e-think.ac.at, +43/(0)670/7015799

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