



*Integrated tool for empowering public authorities in the development of sustainable plans for low carbon heating and cooling*

**Starting date:** 01/10/2016

**Duration in months:** 36

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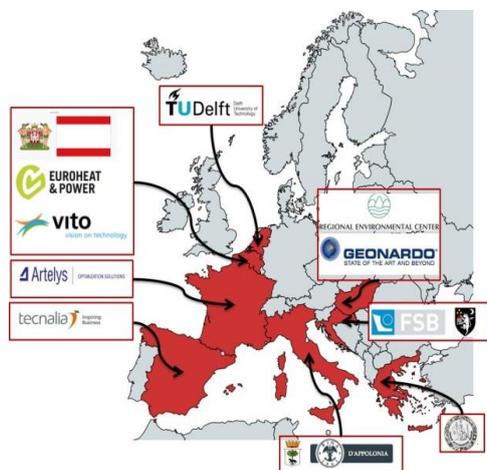
**Topic:** EE-05-2016 - Models and tools for heating and cooling mapping and planning

PLANHEAT main objective is to develop and demonstrate an integrated and easy-to-use tool which will support local authorities (cities and regions) in selecting, simulating and comparing alternative low carbon and economically sustainable scenarios for heating and cooling (H&C) that will include the integration of alternative supply solutions (from a panel of advanced key technologies for the new H&C supply) that could balance the forecasted demand.

Starting from a consolidated partners' background in H&C and energy efficiency modeling, the PLANHEAT integrated tool will be designed to support local authorities in:

- 1) mapping the potential of locally available low carbon energy sources (with specific reference to available RES and waste energy recoverable at urban and industrial level);
- 2) mapping the forecasted demand for heating and cooling;
- 3) define and simulate alternative scenarios based on DHC as well as CHP systems matching the demand, leveraging on the use of RES and waste energy sources and with proven economic viability;
- 4) understanding the interactions with the existing infrastructures and networks (among which DHC, gas, electricity, sewage, transportation) and identify potential for further extension of DHC networks;
- 5) evaluate the benefits (in terms of energetic, economic and environmental KPIs) that the adoption of the new scenarios will generate against the current situation (i.e., baseline).

Moreover sound training and replication strategies involving a number of other public authorities have been set-up. Particularly an ambitious training plan, based on an E-Learning web platform and face-to-face workshops, will involve at least 50 European municipalities from different climate and geographical areas aiming to train more than 150 technicians and delegates.



**PLANHEAT CONSORTIUM**

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- Sveuciliste Uzagrebu, Fakultet Strojarstva I Brodogradnje (HR)
- National Observatory of Athens (GR)
- Vlaamse Instelling Voor Technologisch Onderzoek VITO (BE)
- Fundacion Tecnalia Research & Innovation (ES)
- Stad Antwerpen (BE)
- Grad Velika Gorica (HR)
- Regional Environmental Center for Central and Eastern Europe (HU)
- Euroheat & Power – EHP (BE)
- Città di Lecce - Comune di Lecce (ITA)
- Geonardo Environmental Technologies (HU)
- Artelys (FR)