

HORIZON
2020

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

Resultados

Información del proyecto

Planheat

Identificador del acuerdo de subvención:
723757

[Sitio web del proyecto](#) 

DOI
[10.3030/723757](https://doi.org/10.3030/723757) 

Proyecto cerrado

Fecha de la firma de la CE
22 Agosto 2016

Fecha de inicio
1 Octubre 2016

Fecha de
finalización
31 Enero 2020

Financiado con arreglo a

SOCIETAL CHALLENGES - Secure, clean and efficient energy

Coste total

€ 2 977 212,50

Aportación de la UE

€ 2 977 212,50

Coordinado por

RINA CONSULTING SPA



Italy

CORDIS proporciona enlaces a los documentos públicos y las publicaciones de los proyectos de los programas marco HORIZONTE.

Los enlaces a los documentos y las publicaciones de los proyectos del Séptimo Programa Marco, así como los enlaces a algunos tipos de resultados específicos,

como conjuntos de datos y «software», se obtienen dinámicamente de [OpenAIRE](#) .

Resultado final

Other (7)

[Heating and cooling supply simulator](#) 

Release of the energy supply simulator. Sub-task 3.3.3.

[Database of primary energy factors and greenhouse gas emission factors for EU-28 countries](#) 

Database of primary energy factors and greenhouse gas emission factors for EU-28 countries. Task 3.4.

[DHC route optimizer](#) 

Software module: DHC route optimizer. Task 3.2.

[Third release of mapping module prototype](#) 

Final release of the software module for mapping heating and cooling demand and supply. Task 2.4.

[Database of technology efficiencies, costs and energy tariffs for the EU-28 countries](#) 

Database of technology efficiencies, costs and energy tariffs for the EU-28 countries. Task 3.4.

[Algorithms for energy planning](#) 

Algorithms for energy planning towards the selection of new sustainable H&C scenarios. Task 3.1.

[Heating and cooling demand simulator – Residential sector](#) 

Release of the heating and cooling demand simulator for the residential sector. Sub-task 3.3.1.

Documents, reports (29)

[KPIs calculation models](#) 

Report on KPIs selection and models for calculation. Task 3.4

[Training curricula](#) 

Curricula (agenda, materials, format) of the different training modules

[Roadmaps towards low carbon H&C scenarios](#) 

Roadmaps towards low carbon H&C scenarios according to the fixed clustering criteria. Task 5.2.

[Report on training workshops for the 2nd year](#) 

Report on training workshops for the 2nd year. Task 5.1.

[Report on training workshops for the 1st year](#) 

Report on training workshops for the 1st year. Task 5.1.

[Models for mapping and quantifying current and future H&C demand in cities](#) 

Report detailing the models for estimating heating and cooling demand and results from models validation. Sub-task 2.1.1.

[Database for retrofitting and energy efficiency measures](#) 

Database and related report on the efficiency of retrofitting measures for buildings. Sub task 2.1.1.

[Models for quantifying industrial excess heating and cooling](#) 

Report on models for quantifying industrial excess heating and cooling and results from models validation. Sub task 2.2.3.

[Available databases](#) 

Screening of the available database and procedures and methodologies for collecting input data, including procedures for avoiding ethical issues. Task 1.4.

[Final release of training materials](#) 

Final release of training materials. Task 5.1.

[Planheat evaluation framework – KPIs to quantify project impacts](#) 

List of KPIs to quantify project impacts

[Report on launching conferences](#) 

Report on launching conferences. One conference will be organized in Brussels by EHP at M6 and another launching event in the Eastern European countries that will be organized parallel by REC at M9. Task 6.1.

[Guidelines for shaping national plans on low carbon heating and cooling](#) 

Guidelines for shaping national plans on low carbon heating and cooling to cover the gap between the local level and the national level by establishing a peer-to-peer exchange with bodies responsible for drafting the national action plans according to article 14 of Energy Efficiency Directive 2012/27/EU. Task 5.3.

[Extension of geospatial dataset of hourly variation of HDH and CDH to additional 50 cities](#) 

Extension of geospatial dataset of hourly variation of HDH and CDH to additional 50 cities. sub-task 2.1.2

[Common IT framework specifications](#) 

Report on the common IT framework detailing the data exchange protocol for the different modules and ensure interoperability among modules and OS. Task 1.3

[Report on final conference](#) 

Report on the final conference. Task 6.1.

[Strategic plan for low carbon heating and cooling for the Municipality of Lecce](#) 

Strategic plan for low carbon heating and cooling for the Municipality of Lecce elaborated through the use of the PLANHEAT platform. Task 4.2

[Models for mapping and quantifying energy potential from waste energy sources at urban level](#) 

Report on models for mapping and quantifying energy potential from waste energy sources at urban level and results from models validation. Sub-task 2.2.2.

[Strategies and protocols for input data collection](#) 

Report detailing the list of input data and procedures for the collection for the validation cities. Task 1.4.

[Report on PLANHEAT participation to relevant events](#) 

Report on PLANHEAT participation to relevant events. Task 6.1.

[Geospatial dataset of hourly variation of HDH and CDH for validation cities, including UHI phenomena](#) 

Geospatial dataset of hourly variation of HDH and CDH for validation cities, including UHI phenomena. Task 2.1.2.

[Report on training workshops for the 3rd year](#) 

Report on training workshops for the 3rd year. Task 5.1.

[Models for spatially prioritising the potential of energy saving, low carbon heating and cooling and excess heat](#) 

Report on models for spatially prioritising the potential of energy saving, low carbon heating and cooling and excess heat. Task 2.3.

[Report on end-users' current status, practices and needs in H&C plans](#) 

Report detailing end-users' current status, practices and needs in H&C plans following interviews and round tables with cities. Task 1.1

[Models for mapping and quantifying energy potential from RES](#) 

Report on models for mapping and quantifying energy potential from RES and results from models validation. Task 2.2.1.

[Report and presentation on PLANHEAT integrated tool functionalities](#)

A public report detailing how the integrated platform will look like and which will be the main functionalities of the tool. Task 1.3.

[PLANHEAT tool manual](#)

PLANHEAT tool manual and translation into 5 national languages according to the needs of replication cities. Task 5.1.

[Second release of training materials](#)

[First release of training materials](#)

First release of training materials. Task 5.1

Websites, patent fillings, videos etc. (3)

[Leaflet and poster on the project](#)

Leaflet and poster on the project. Task 6.1.

[E-Learning platform](#)

E-Learning platform up and running. Task 5.1

[Project website](#)

Project website. Task 6.1.

Open Research Data Pilot (1)

[Data management plan](#)

Data management plan. Task 7.1.

Publicaciones

Peer reviewed articles (7)

[Hourly optimization and sizing of district heating systems considering building refurbishment – Case study for the city of Zagreb](#) 

Autores: Matija Pavičević, Tomislav Novosel, Tomislav Pukšec, Neven Duić
Publicado en: Energy, Edición 137, 2017, Página(s) 1264-1276, ISSN 0360-5442

Editor: Pergamon Press Ltd.

DOI: 10.1016/j.energy.2017.06.105

[Heat demand mapping and district heating grid expansion analysis: Case study of Velika Gorica](#) 

Autores: Hrvoje Dorotić, Tomislav Novosel, Neven Duić, Tomislav Pukšec
Publicado en: E3S Web of Conferences, Edición 19, 2017, Página(s) 01021, ISSN 2267-1242

Editor: EDP Sciences

DOI: 10.1051/e3sconf/20171901021

[District Energy Systems: A Collaborative Exchange of Results on Planning, Operation and Modelling for Energy Efficiency](#) 

Autores: Tatiana Loureiro, Miika Rämä, Raymond Sterling, Marco Cozzini, Meritxell Vinyals, Michael Descamps, Wolfgang Birk, Gozde Unkaya, Federica Fuligni, Borna Doračić, Marin Petrovic, Dominik Rutz, Inés Arias, Sofia Lettenbichler, Ioannis Meintanis, Serafeim Moustakidis, Martin Buchholz, Reiner Buchholz, Mathieu Provost, Philipp Geyer

Publicado en: Proceedings, Edición 2/15, 2018, Página(s) 1127, ISSN 2504-3900

Editor: MDPI

DOI: 10.3390/proceedings2151127

[Assessment of urban-scale potential for solar PV generation and consumption](#) 

Autores: J Pedrero, N Hermoso, P Hernández, I Muñoz, E Arrizabalaga, L Mabe, I Prieto, J L Izkara

Publicado en: IOP Conference Series: Earth and Environmental Science, Edición 323, 2019, Página(s) 012066, ISSN 1755-1315

Editor: IOP Science

DOI: 10.1088/1755-1315/323/1/012066

[PLANHEAT's Satellite-Derived Heating and Cooling Degrees Dataset for Energy Demand Mapping and Planning](#) 

Autores: Sismanidis, Keramitsoglou, Barberis, Dorotić, Bechtel, Kiranoudis

Publicado en: Remote Sensing, Edición 11/17, 2019, Página(s) 2048, ISSN 2072-4292

Editor: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/rs11172048

[Sensitivity assessment of a district energy assessment characterisation model based on cadastral data](#) 

Autores: Xabat Oregi, Nekane Hermoso, Eneko Arrizabalaga, Lara Mabe, Inigo Munoz

Publicado en: Energy Procedia, Edición 147, 2018, Página(s) 181-188, ISSN 1876-6102

Editor: ELSEVIER

DOI: 10.1016/j.egypro.2018.07.053

[Automatised and georeferenced energy assessment of an Antwerp district based on cadastral data](#) 

Autores: Xabat Oregi, Nekane Hermoso, Iñaki Prieto, Jose Luis Izkara, Lara Mabe, Panagiotis Sismanidis

Publicado en: Energy and Buildings, Edición 173, 2018, Página(s) 176-194, ISSN 0378-7788

Editor: Elsevier BV

DOI: 10.1016/j.enbuild.2018.05.018

Conference proceedings (2)

Potential for DHC and cogeneration in Europe: An analysis of member states assessments under EED Art14

Autores: Erwin Cornelis, Pieter Vingerhoets

Publicado en: ECEEE SUMMER STUDY PROCEEDINGS 379, Edición 20/06/2017, 2017, Página(s) 369-380, ISSN 2001-7960

Editor: ECEEE policy conference

[A Satellite-derived Heating- and Cooling-Degrees Geospatial Dataset: Results for Antwerp](#) 

Autores: Panagiotis Sismanidis; Iphigenia Keramitsolgou; Anastasia Tsontzou; Benjamin Bechtel; Stefano Barberis; Chris T. Kiranoudis

Publicado en: 2019 Joint Urban Remote Sensing Event (JURSE), Edición 1, 2019

Editor: JURSE

DOI: 10.5281/zenodo.3370970

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