



Welcome to the **RENEWABLE HEATING & COOLING: THE PORTUGAL PERSPECTIVE**

Online Event

The National Roundtable is organised on behalf of the RHC ETIP



THE RENEWABLE HEATING & COOLING PLATFORM (RHC ETIP)



Summary:

1. The RHC Platform;
2. The EHPA R&I Committee;
3. How can you participate in our activities;
4. How do we combine the RHC Platform with the R&I activities of EHPA relating to HPs.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825998.



What is the RHC Platform?

The RHC Platform is a European Technology and Innovation Platform (ETIP) since 2016

This means showcasing that renewable energy technologies for heating and cooling are safe, clean, efficient and increasingly cost-competitive. And moreover, as a result of these factors, society will benefit from the increasing contribution of renewable heating and cooling to the European Union's. Combining improved and new technologies, innovation and development as well as policy, funding and pilot projects.



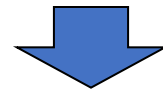
What are the RHC Goals?

- Develop working relationships with other relevant national/regional platforms;
- Establish and update Strategic Research and Innovation Agendas per technology area, from basic research to market uptake, identifying priorities in the short, medium and long term;
- Identify priorities of cross-cutting nature: e.g. education & training, socio-economics aspects, international cooperation;
- Identify innovation barriers, notably those related to regulation and financing;
- Report on the implementation of R&I activities at European, national and industrial levels.



The RHC document steps towards a complete energy transition plan:

1. Macro overview planning and wanted results/technologies that fulfill the requirements (Document: 2050 vision for 100% renewable heating and cooling in Europe) **completed**



2. Micro targeted planning with specific topics in the research and innovation sector (Document: Strategic Research and Innovation Agenda (SRIA)) **completed**



3. Concrete actions to achieve points 1. and 2. (Deployment actions) **in progress**





European Heat Pump Association

2,851 followers

6d • Edited •

Take a look at the [#RHCETIP](#) survey on RD&I trends and priorities! And help us identify [#researchandinnovation](#) trends, as well as to verify the research & innovation priorities of the renewable [#heating](#) and [#cooling](#) sector.

More information here: <https://lnkd.in/eqpgwkJ>



Take the RHC-ETIP survey on RD&I trends and priorities!

rhc-platform.org • 1 min read



- The objective of such a database is to track the past and ongoing projects in the area of renewable heating and cooling
- With a focus on those which are funded at EU level
- Whenever possible, the projects' results will also be presented, in terms of Key Performance Indicators or Deliverables

Basically a one stop shop with a user-friendly interface that can be easily sorted and is continually added upon.





Waste Heat Recovery in Industrial Drying Processes

Timeline

Funding programme

The overall objective of the DryFiciency project is to lead energy-intensive sectors of the European manufacturing industry to high energy efficiency and a reduction of fossil carbon emissions by means of waste heat recovery to foster competitiveness, improve security of energy supply and guarantee sustainable production in Europe. The project addresses three sectors, namely brick, pet care/feed and food industry. The results are however of major relevance for a number of other energy-intensive industries such as e.g. pulp and paper industry.



Production of Solid Sustainable Energy Carriers from Biomass by Means of Torrefaction

Production of Solid Sustainable Energy Carriers from Biomass by Means of Torrefaction

Timeline

Funding programme

Torrefaction is considered worldwide as a promising key technology for boosting large-scale implementation of bioenergy. It involves heating biomass in the absence of oxygen to a temperature of 200 to 320 °C. As a result, the biomass loses all its moisture and becomes easy to grind and water resistant, which reduces the risk of spontaneous ignition and biological degradation and permits outdoor storage. By combining torrefaction with pelletisation or briquetting, biomass is converted into a high-energy-density commodity solid fuel or bioenergy carrier with superior properties in view of (long-distance) transport, handling and storage, and also in many major end-use applications (e.g., co-firing in pulverised-coal fired

Search



Area of Application

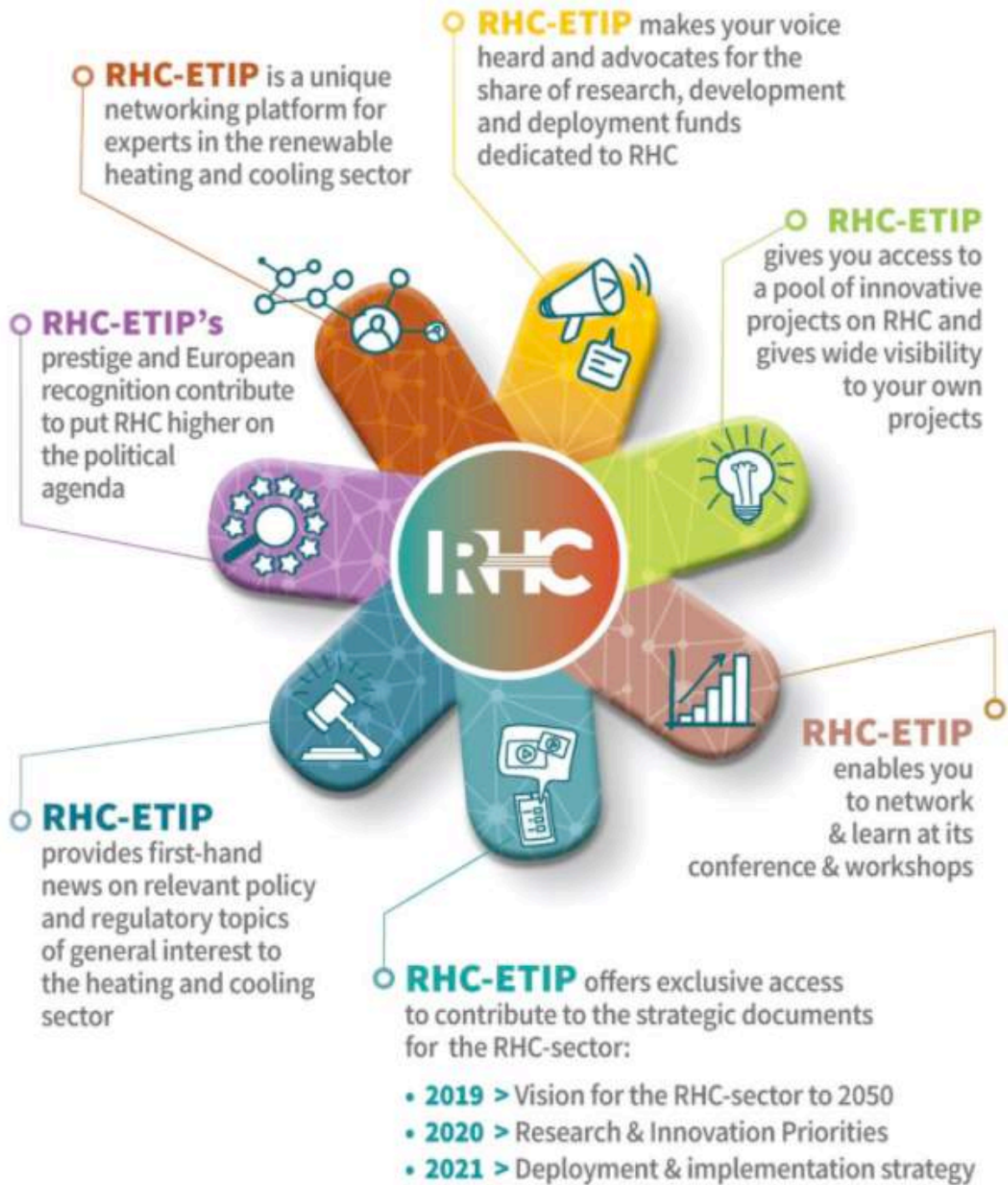
- Buildings
- Cities
- Industry
- District

Technology readiness level

- TRL 1-3 Basic research
- TRL 3-5 First level demonstration
- 5-7 Second level demonstration
- 7-9 Market ready solution

H&C solutions

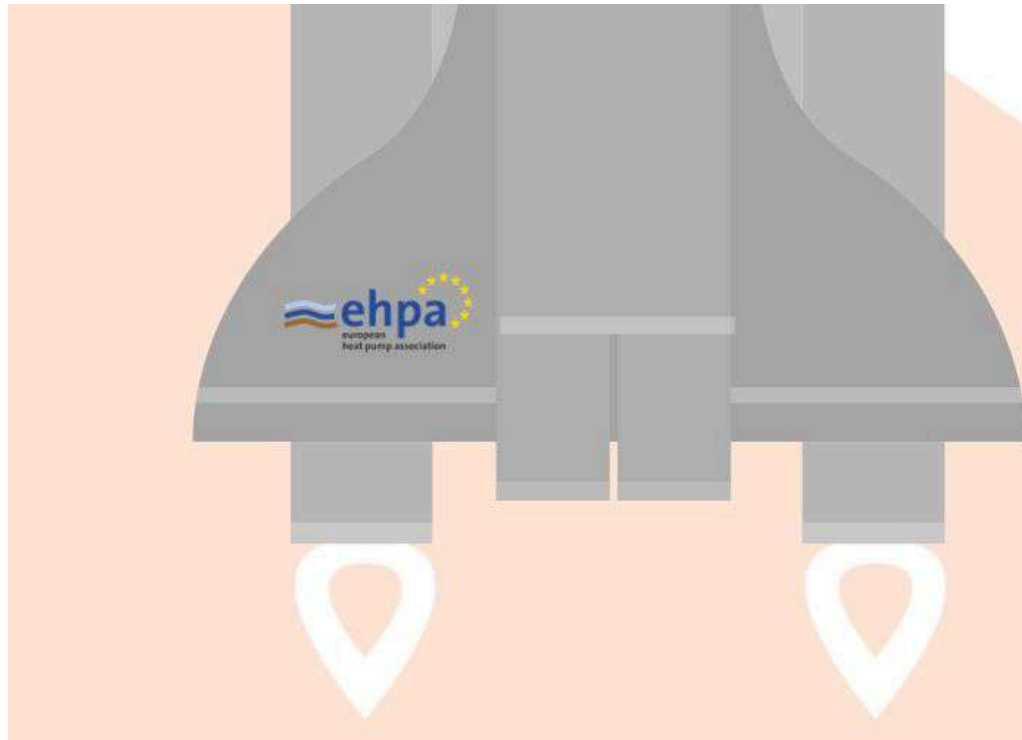
- Biomass
- District heating
- Geothermal
- Heat Pumps
- Hybrid system
- Solar Thermal
- Thermal Storage



Become a member

[Register for membership](#)





THE EHPA R&I COMMITTEE

Bringing together researchers and
innovators from the Heat Pump
Sector

[More information](#)



The EHPA R&I Committee

Background: The need for an overview and exchange of information regarding HP Research and Innovation (the committee is not only open to EHPA members). The need to streamline project development (e.g. Horizon 2020, tenders, other initiatives) and the creation of consortiums/groups that can apply for these.

Aim: To establish a diverse and expanding group that can exchange information regarding research, innovation, project calls, initiatives, gaps in technology development and opportunities for advancement. To map HP related R&I at European level and to connect with diverse stakeholders that can offer different perspectives, skills and knowledge.

A stylized silhouette of a city skyline with various building shapes in shades of brown and tan, located at the bottom right of the slide.

Who can attend?

- This committee is open to all EHPA members as well as any relevant stakeholder that can contribute to its work (e.g. consultancies, research institutes, data analysis and modelling companies)

Schedule

- The Research and Innovation Committee meets 3/4 times per year. Some of its meetings will be coupled either with Project calls that are open/opening (e.g. Horizon 2020, upcoming Horizon Europe, EC tenders) or with EHPA project events (e.g. the Renewable Heating and Cooling (RHC) platform - Heat Pump Technology Panel (TP))



HP lifecycle:

Research & Development → Policy → Funding → Research &
Development

(a circle that can start at any step)

Where Research and Development represents:

Demand → Design → Manufacturing → Installation → Maintenance →
Replacement/Upgrade → Demand



E.g. 'Demand'

- User perception (new buildings, renovation, industrial)
- Communication strategy (new buildings, renovation, industrial)
- Demo sites (new buildings, renovation, industrial)
- One Stop shops (new buildings, renovation, industrial)
- Innovative business models
- Sector coupling and flexibility



E.g. 'Design'

- Modularity
- Circularity
- Ease of use
- Hyper efficiency
- Easily connected to other technologies & storage mediums
- Health and ergonomics





Ana Palmero
Senior Researcher,
FEUP-UPORTO & INEGI





João Castanheira
Deputy CEO, ENGIE Portugal
& CEO Climaespaço





Pedro Ribeiro
Vice President of Engineering,
Center for Engineering in
Aveiro, Bosch



BOSCH



Zenaida Mourão
Head of Energy Group,
INEGI





PANEL DISCUSSION
11:10 – 11:50 CET / 10:10 -10:50 WET

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