

100% RHC Event

*How to fully decarbonise the heating
and cooling sector in Europe?*

10 April
2024
Graz (Austria)

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ETIP Secretariat)**

**Introduction to the RHC-ETIP & Relevant
Funding Calls for RHC Solutions**

- Founded in 2008 and recognised as an ETIP by the European Commission in 2016
- ETIPs have been created by the European Commission in the framework of the new Integrated Roadmap Strategic Energy Technology Plan (SET Plan) by bringing together a multitude of stakeholders and experts from the energy sector

KEY OBJECTIVES

Speeding up the **uptake** of RHC technologies and **stepping up to the challenge** of the entire industry with a special focus on industrial and manufacturing capacity, new manufacturing procedures and addressing supply chains (incl. related risks)

Increasing the profile and the **role** of RHC in the process of decarbonisation of the energy system including support to the **definition** of a **stable** and **favourable research policy framework** for the development of renewable H&C technologies at EU level

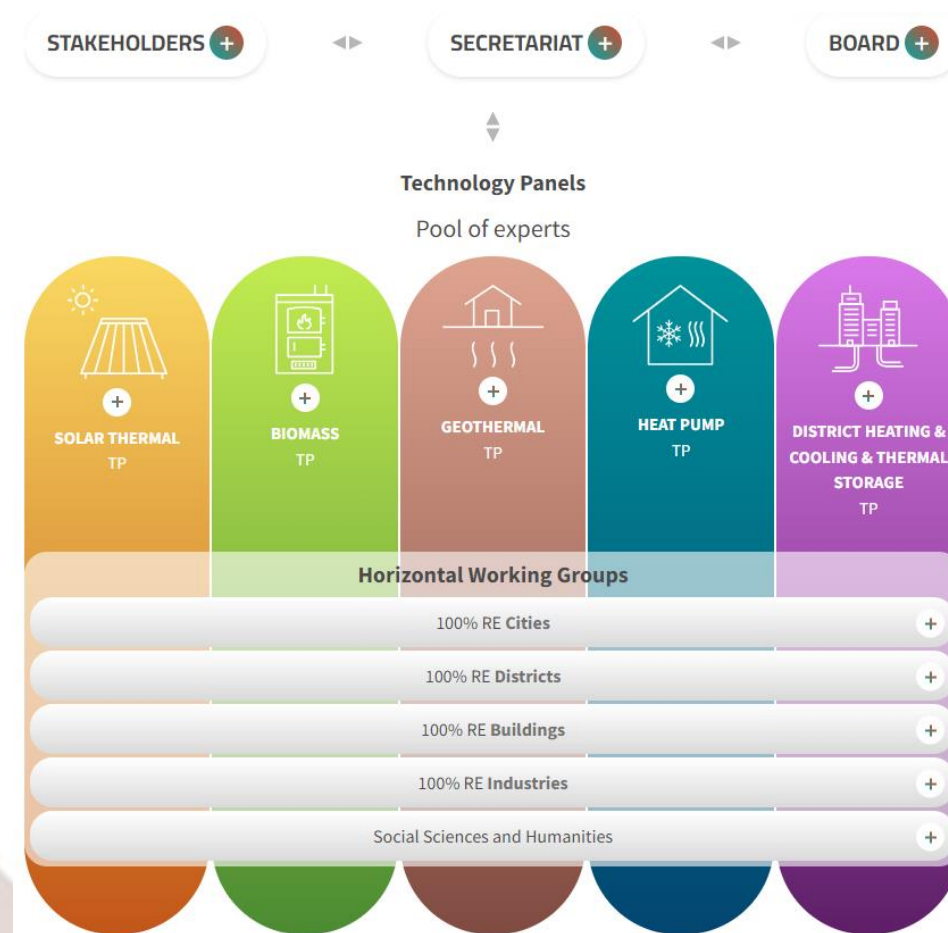
Focusing on **accelerating projects** on the ground, **replication**, and developing **bankability** of the projects

Representing research and industry of heating & cooling technologies in Europe:

- Solar thermal
- Biomass
- Geothermal
- Heat pumps
- District heating & cooling, and thermal storage

RHC-ETIP's work is structured in solutions-oriented horizontal working groups:

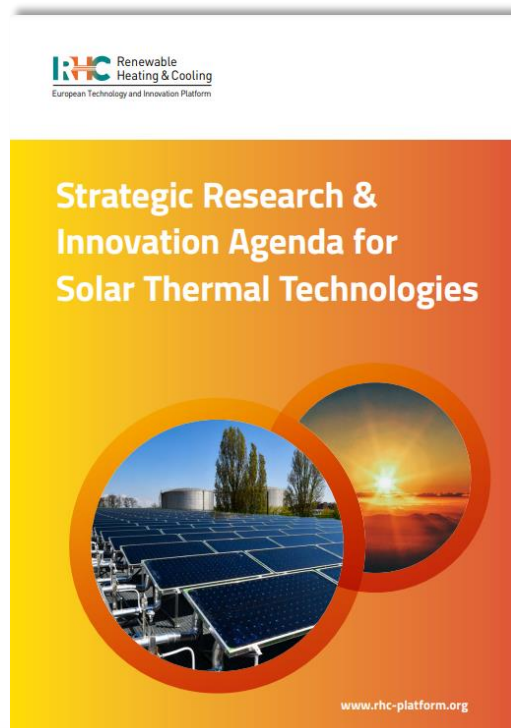
- 100% RE Buildings
- 100% RE Districts
- 100% RE Cities
- 100% RE Industries
- SSH-HWG



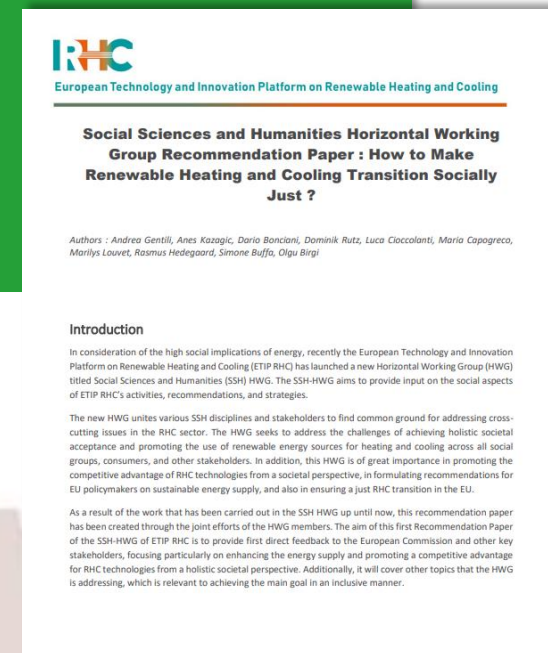
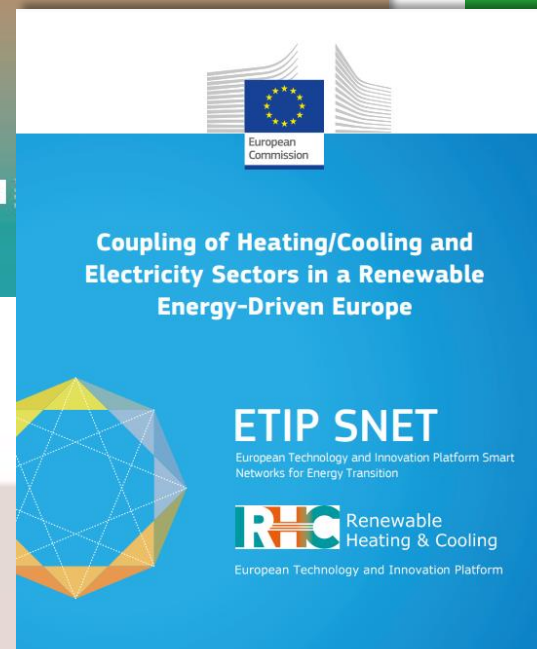
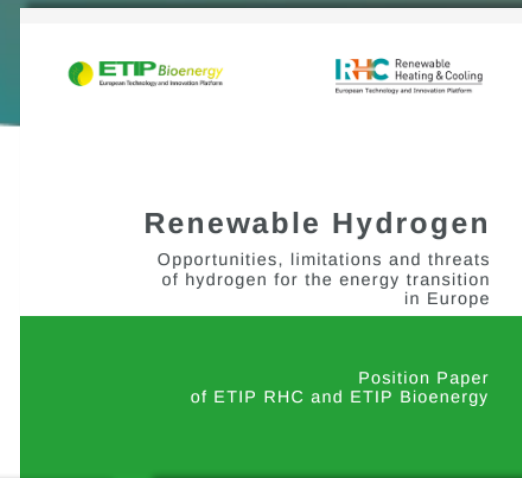
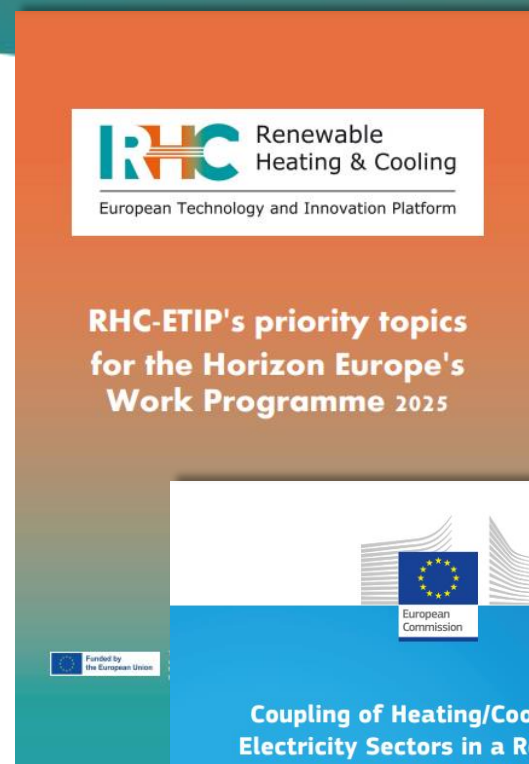
- Preparation and publishing of [2050 Vision for 100% renewable heating and cooling in Europe](#)
- Preparation and publishing of [SRIA for climate-neutral heating and cooling in Europe](#)
- Preparation of [Implementation and deployment report for renewable heating and cooling sectors in Europe](#)



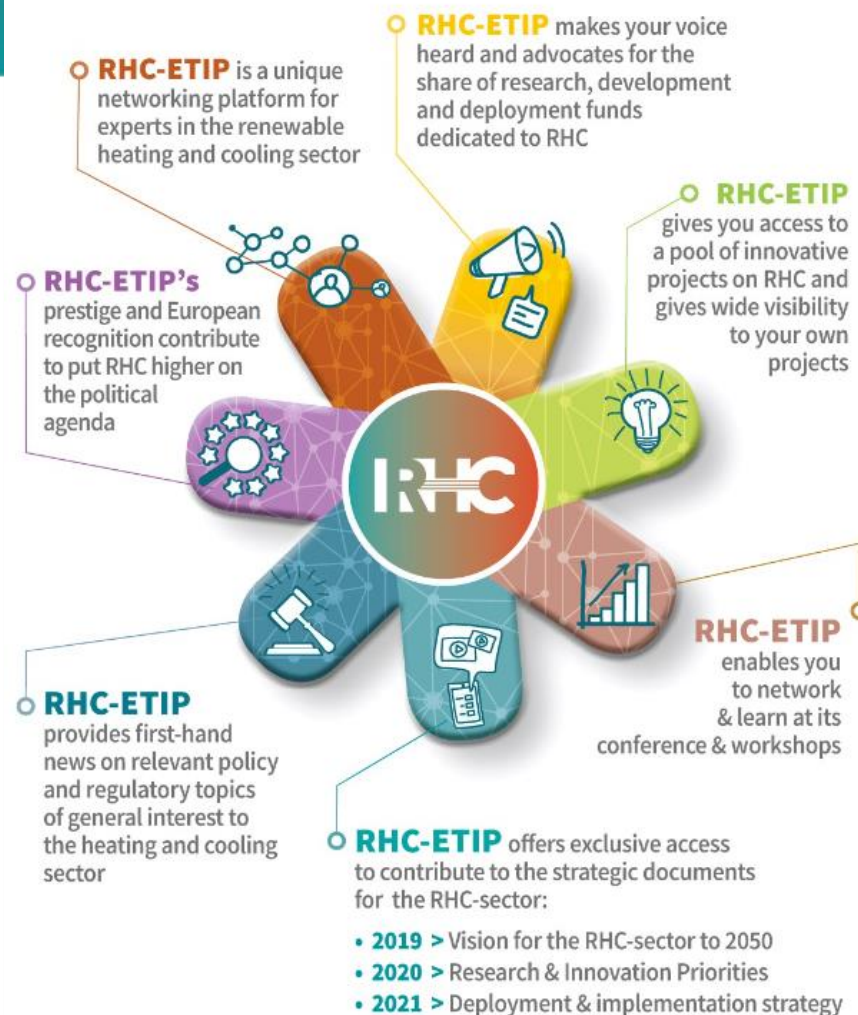
- Preparation and publishing of technology-specific SRIAs: [Solar Thermal](#), Biomass, [Geothermal](#), [Heat pumps](#), [DHC & Thermal storage](#)



- Position paper on «[Coupling of Heating/Cooling and Electricity Sectors in a Renewable Energy-Driven Europe](#)»
- Position paper on «[Renewable hydrogen: Opportunities, limitations and threats of hydrogen for energy transition in Europe](#)»
- [RHC-ETIP's priority topics for the Horizon Europe's Work Programme 2025](#)
- Recommendation paper on «[How to Make Renewable Heating and Cooling Transition Socially Just?](#) »



- Organisation of **national and regional roundtables** to engage national stakeholders, to inform and update them on the work of the RHC-ETIP, exchange expertise and best practices and receive concrete feedback on strategic documents
- Active participation to the definition of a **stable and favourable research policy framework for the development of renewable heating and cooling technologies at EU level** through monitoring and preparing input to the key EU R&I policy priorities and public consultations
- **Online projects database** to track the ongoing projects in the area of renewable heating and cooling, with a focus on those which are funded at EU level. Ready to consult or [submit your project](#)
- Organisation of **annual conference: 100% RHC Event**
- Development of **RHC industrial strategy**
- **Establishing a RHC accelerator and a one-stop shop** for RHC projects, to develop their bankability and stimulate their market uptake
- Strengthening **cooperation initiatives among RHC stakeholders at national level**
- Enlargement of the **RHC-ETIP to complementary sectors and new markets**, with experts involved in promoting the renewable heating and cooling sector



Horizon Europe

- HORIZON-CL5-2024-D4-01-01: Low-disruptive renovation processes using integration of prefabricated solutions for energy-efficient buildings

Key details:

Type: HE Innovation Action

Opening: 07 December 2023

Deadline: 18 April 2024

Foreseen budget: EUR 10,000,000 (2 projects of around EUR 5,000,000)

Topic: Low-disruptive renovation processes, using prefabricated modules that are quick and easy to apply to enable increasing the renovation rate of the European building stock

Expected TRL: 6-8

Deadline very close!



Horizon Europe

- HORIZON-CL5-2024-D4-01-02: Smart grid-ready buildings

Key details:

Type: HE Innovation Action

Opening: 07 December 2023

Deadline: 18 April 2024

Foreseen budget: EUR 10,000,000 (2 projects of around EUR 5,000,000)

Topic: Deliver solutions to improve the interoperability of European buildings with energy carriers (e.g. electricity grid, district heating networks) and with non-energy services (e.g. mobility) to allow buildings to play an active role in the energy system integration

Expected TRL: 6-8

Deadline very close!



Horizon Europe

- HORIZON-CL5-2024-D4-01-03: Alternative heating systems for efficient, flexible and electrified heat generation in industry

Key details:

Type: HE Innovation Action

Opening: 07 December 2023

Deadline: 18 April 2024

Foreseen budget: EUR 16,000,000 (3 projects of around EUR 5,300,000)

Topic: Further research and upscaling work to demonstrate the potential of alternative forms of energy, e.g. ultrasound, microwaves, plasma, infrared, visible and ultraviolet radiations... to be deployed on an industrial scale

Expected TRL: 6-7

Deadline very close!



Horizon Europe

- HORIZON-CL5-2024-D4-02-01: Industrialisation of sustainable and circular deep renovation workflows (Built4People Partnership)

Key details:

Type: HE Innovation Action

Opening: 17 September 2024

Deadline: 21 January 2025

Foreseen budget: EUR 16,000,000 (2 projects of around EUR 8,000,000)

Topic: Develop innovative, seamless workflows from design to off-site prefabrication, to installation, construction on-site, maintenance and future dismantling, reuse and recycling of prefabricated elements, duly considering life cycle performance, sustainability, and the potential to use the buildings as carbon sinks. Ensure the proposed approaches aim to achieve the highest level of energy performance

Expected TRL: 6-8

Forthcoming!



Horizon Europe

- HORIZON-CL5-2024-D4-02-05: Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts (Built4People Partnership)

Key details:

Type: HE Innovation Action

Opening: 17 September 2024

Deadline: 21 January 2025

Foreseen budget: EUR 10,000,000 (2 projects of around EUR 5,000,000)

Topic: Development of digital solutions for a stronger participation of end users, citizens and other relevant stakeholders in the design, planning and management of the renovation of existing buildings, neighbourhoods and / or districts.

Expected TRL: 6-8

Forthcoming!



Horizon Europe

- HORIZON-CL5-2024-D3-02-10: Market Uptake Measures of renewable energy systems

Key details:

Type: HE Coordination and Support Action

Opening: 17 September 2024

Deadline: 21 January 2025

Foreseen budget: EUR 8,000,000 (4 projects of around EUR 2,000,000)

Topic: Develop solutions facilitating the wider uptake of RES in the energy, industrial and residential sectors either for the entire renewable energy market or focusing on a specific energy sector, such as electricity, heating, cooling or renewable fuels

Forthcoming!

LIFE programme

- LIFE Clean Energy Transition sub-programme
- Budget of nearly €1 billion
- The EC will publish the calls for proposals for the LIFE 2024 programme on **18 April** with anticipated submission deadlines on 19 September 2024
- Dedicated call on heat pumps: LIFE-CET-HEATPUMPS2024
- Several **info days are foreseen** to take place after the publication date (virtual information sessions from 23 to 26 April 2024)

Innovation Fund

- Financed by EU Emissions Trading System revenues -> **€40 billion between 2020-2030**
- The Fund focuses on **highly innovative clean technologies and big flagship projects** with European added value that can bring significant emission and greenhouse gas reductions
- €6.5 billion in EU funding awarded to **104 projects so far** (large-scale and small-scale)
- The projects need to be sufficiently mature in terms of planning, business model, and financial and legal structure
- Projects are selected based on different criteria: effectiveness of greenhouse gas emissions avoidance, degree of innovation, project maturity, replicability and cost-efficiency
- The Innovation Fund **supports up to 60% of the relevant costs** calculated according to the methodology indicated in each call for proposals
- IF2023 call closed on 9 April 2024. Expected open of the next large-scale call in Q4. Small-scale calls previously opened in Q1 of each year

Clean Energy Transition Partnership

- An initiative co-funded by the EU that brings together public and private stakeholders in the research and innovation ecosystems, from European and non-European countries and regions. CET Partnership aims to foster transnational innovation ecosystems and overcome a fragmented research and innovation landscape.
- CETP Joint calls are usually performed in 2-stages: submission of a pre-proposal followed by an invite to submit a full proposal
- Joint Call 2023 – deadline for full-proposal submission on 27 March 2024
- Joint Call 2024 – opening of the pre-proposal submission expected in September 2024
- CETPartnership Joint Call 2024 Infoday (online) expected shortly before the opening of the joint call

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Thank you!

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