



# FINAL CONFERENCE

*Accelerating Renewable Heating and  
Cooling for a Decarbonised Europe*

**23 SEPTEMBER 2025**  
**at MIX, Brussels**  
**from 9:30 to 14:30**



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## Welcome & introduction



**Francesca Tamburrini**  
EU Projects Manager at  
European Heat Pump Association



**Vasiliki Drosou**  
Head of Solar Systems, Storage  
and Hydroelectric Power  
Department at Centre for  
Renewable Energy and Sources



**KAPÉ**  
**CRES**



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Time	Organisation	Presentation name	Speakers
9:30	ALL	Registration & Welcome coffee	
10:00	EHPA	Welcome and introduction	Francesca Tamburrini & Vasiliki Drosou
10:05	European Commission - DG ENER	Keynote Speech	Matthieu Ballu
10:15	CRES	Keynote Speech The Role of Energy Next-Generation Renewable Heating & Cooling Technologies: From Lab to Large-Scale Deployment	Dimitrios Kardomateas
10:25	SHE	REDI4Heat: the origins of a project	Esteban Gas
10:35	CRES	The REDI4Heat project: objectives and achievements	Rosie Christodoulaki
10:50	ADENE	The REDI4Heat tools & resources and the Assessment Guidelines.	Silvia Remedios
11:00	Coffee Break		

Time	Organisation	Presentation name	Speakers
11:20	External speakers	Panel discussion "Renewable heating: Has the European Clean Energy Deal delivered"	<ul style="list-style-type: none"> <li>Juan Antonio Lopez Morero - Iberdrola</li> <li>Francesco Robimarga - REHVA</li> <li>Duncan Gibb - Regulatory Assistance Project</li> <li>Edwige Porcheyre - Enerplan</li> </ul> <b>Moderator: Sanjeev Kumar - EGEC</b>
12:10	External Speakers	Panel discussion "Shaping the future: how do EU policy actions impact the energy landscape?"	<ul style="list-style-type: none"> <li>Davide Sabbadin - EEB</li> <li>Allison Le Corre - EU Covenant of Mayors</li> <li>Lucia Verardi - SmartEn</li> <li>Irene di Padua - Bioenergy Europe</li> </ul> <b>Moderator: Leopoldo Micó - EHPA</b>
13:00	Hellenic Passive House Institute	Best Practices on Renewable Energy for heating and cooling	Stefanos Pallantzias
13:10	CRES & EHPA	Closing remarks	
13:15	Networking lunch		
14:30	End of the event		



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## Keynote speech



 **REDI4HEAT**



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**Matthieu Ballu**  
Policy Officer at European Commission,  
DG ENER

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## Keynote speech



**Dimitrios Kardomateas**  
President at Centre for Renewable  
Energy Sources and Savings



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**REDI4Heat: the origins of a project**



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**Esteban Gas**  
Policy Officer at  
Solar Heat Europe

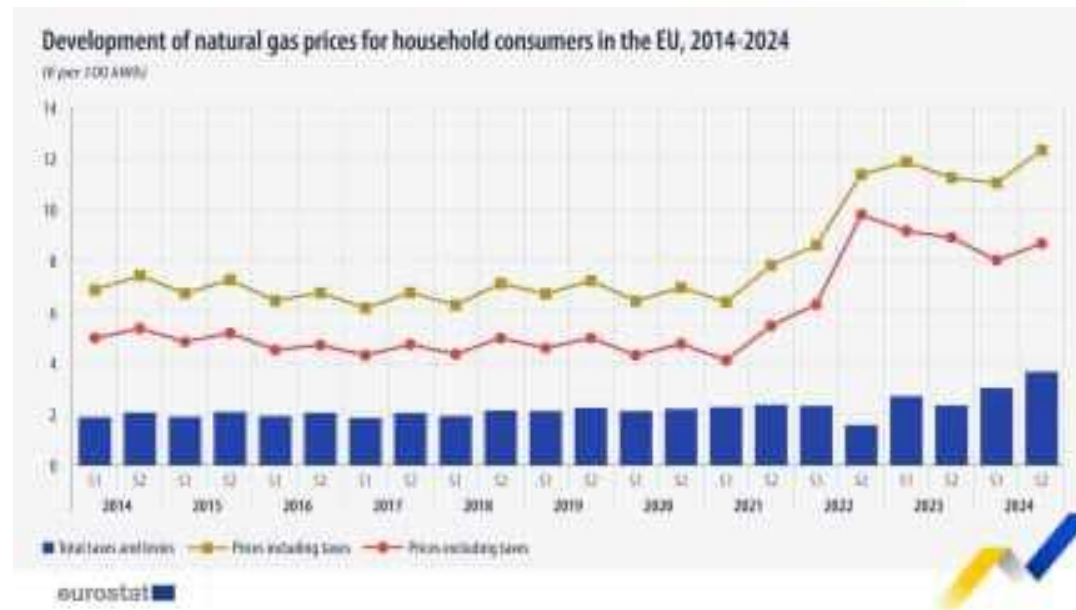
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# 1. The path to REDI4Heat

## 2016 Heating and Cooling Strategy

The [2016 EU Heating and Cooling Strategy](#) provided a first overview of the energy consumption and fuel mix of the heating and cooling sector in the main end-use sectors: buildings and industry. It also set out actions and tools to support the heating and cooling sector's contribution to the EU objective of climate neutrality by 2050. These actions and tools, which were implemented in the [Clean Energy for all Europeans' package](#) adopted in 2019, relate to increasing renewable energy and energy efficiency in this sector, while applying in parallel an integrated approach to the [energy system](#).

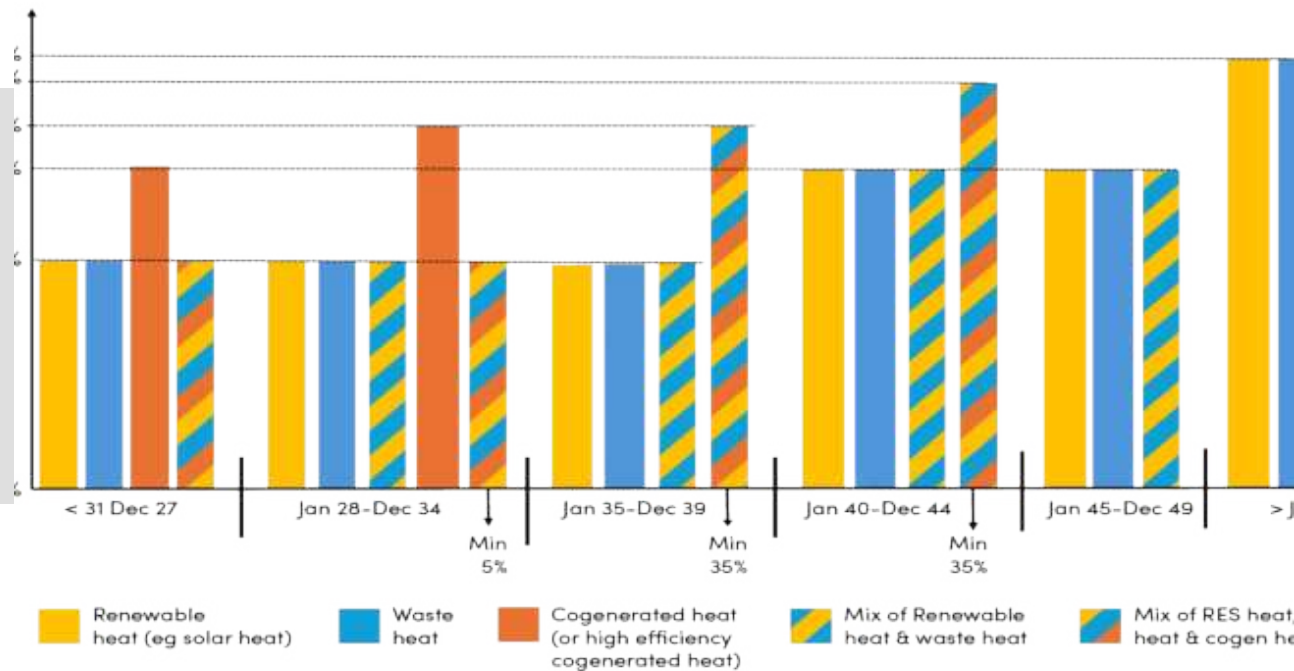


# 2. Fit for 55 as a turning point



The path towards “efficient district heating”, as per the requirements of the 2023 Energy Efficiency Directive

© Solar Heat



By specific deadlines, district heating networks will need to comply with any of the above options i.e. containing an increasing minimum share of RES heat (or others), reaching 100% in 2050





# 4. A new Heating & cooling strategy

Energy – Heating and Cooling Strategy

Have your say - Public Consultations and Feedback > Published initiatives > Energy – Heating and Cooling Strategy

In preparation

Call for evidence

Feedback period

28 August 2025 - 09 October 2025

Feedback: Open

Public consultation

Consultation period

28 August 2025 - 20 November 2025

Feedback: Open

About this initiative

Summary

The Heating and Cooling Strategy will aim to accelerating the decarbonisation of heating and cooling. It will:

- help bring renewable energy technologies and energy efficiency solutions to industry, households and businesses;
- address inefficiencies at the interface of supply and demand, and at planning level;
- advance energy system integration of heating and cooling;
- include an action plan on geothermal energy;
- explore other actions on direct heat capture, e.g. through solar thermal energy.

Topic

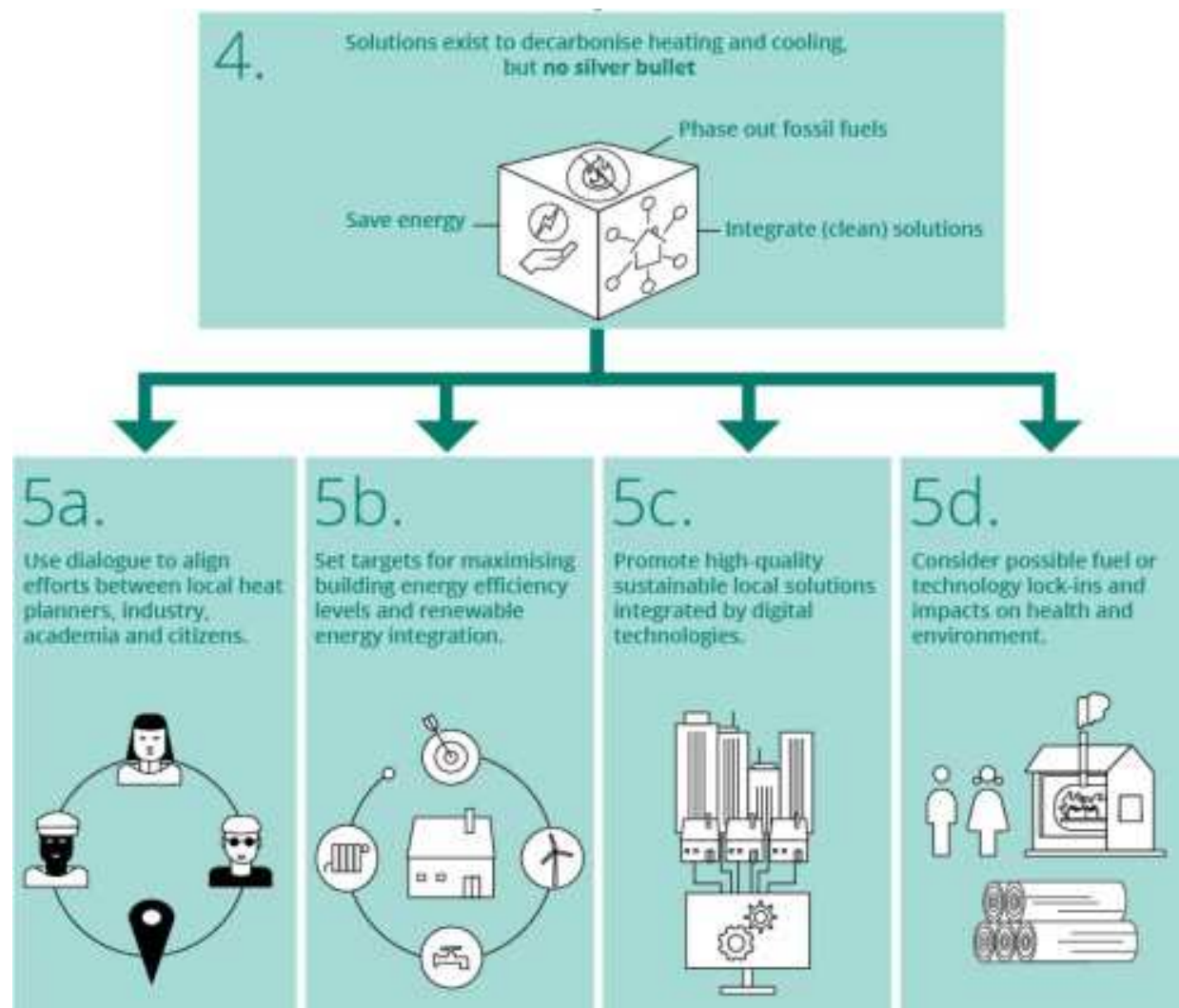
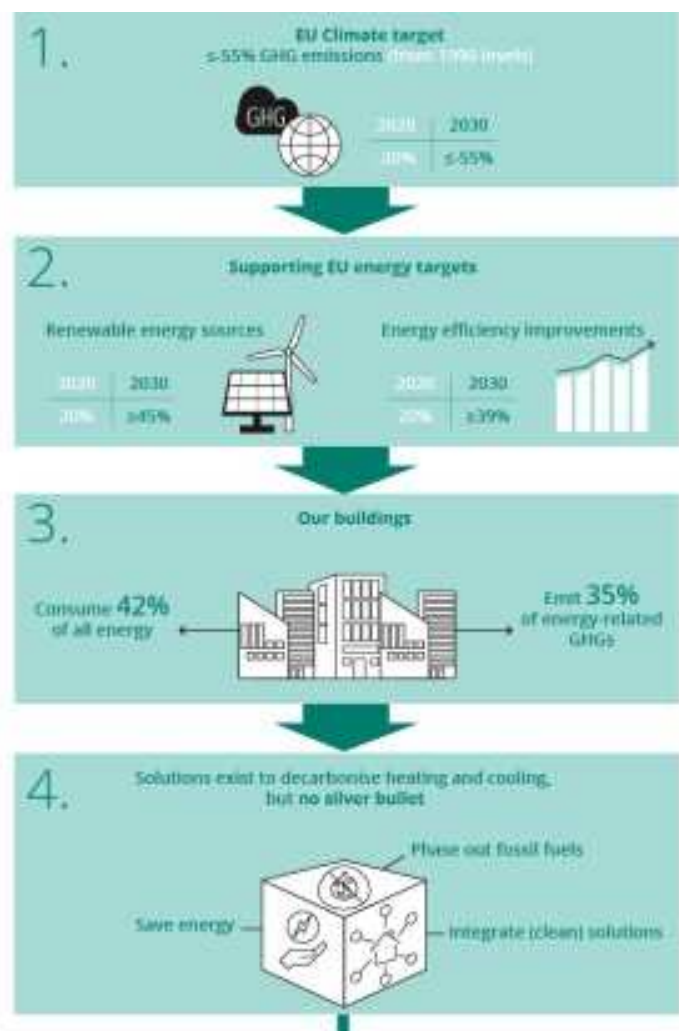
Energy

Type of act

Communication

Call for evidence

# Conclusion





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**The REDI4Heat project:  
objectives and achievements**



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**Rosie Christodoulaki**  
Senior RES Specialist at Centre for Renewable  
Energy Sources and Saving

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Renewable Energy Directive implementation for heating and cooling

## **The REDI4Heat project: objectives and achievements**

**Dr Rosie Christodoulaki**

Centre for Renewable Energy Sources and Savings



High Level Event, 23 Sept 2025, The MIX hotel Brussels

# The gap

## Total energy consumption

50% heating and cooling

30% transportation

20% electricity

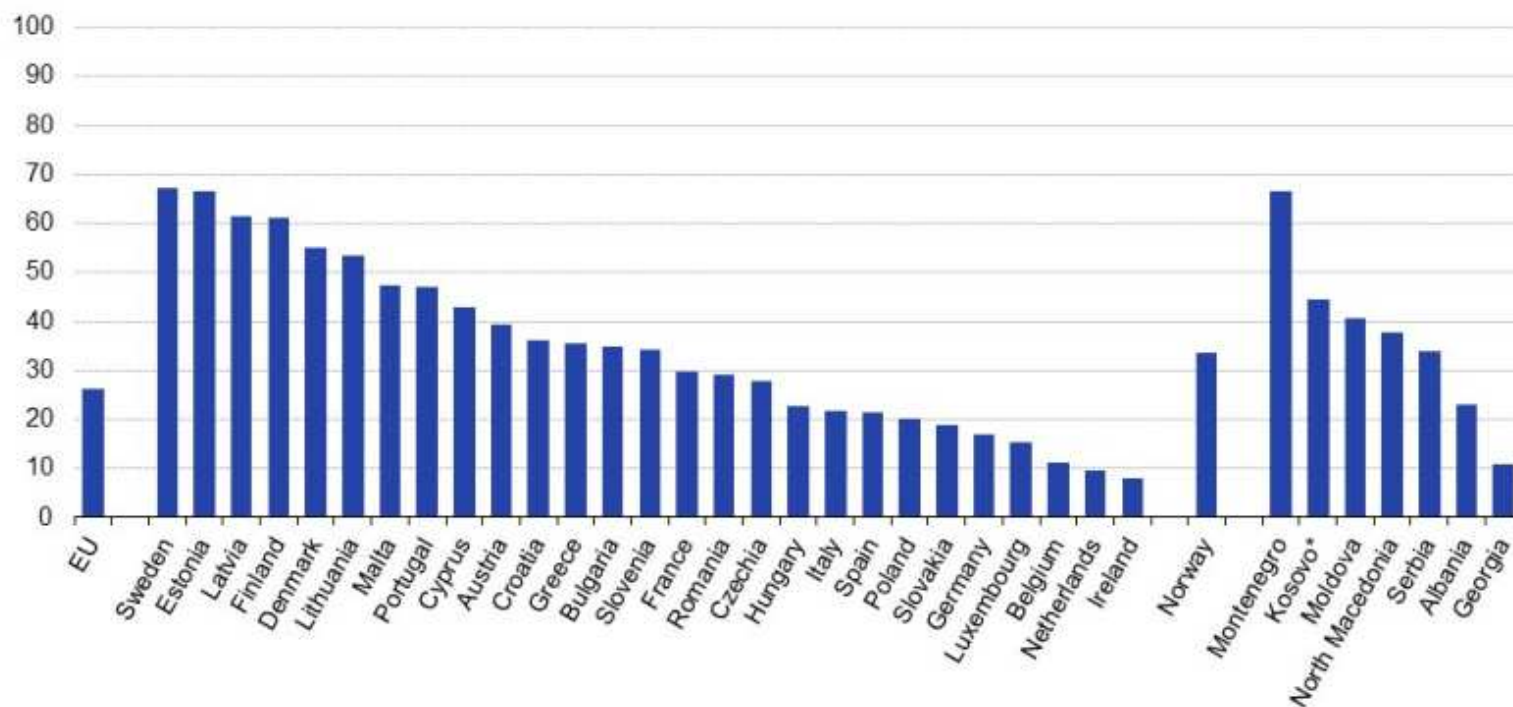
## Heating and Cooling

40% of the global CO<sub>2</sub> emissions

26% of heating and cooling comes from RES (traditional biomass)

- *Heat is still produced by fossil fuels*
- *Most policy efforts are focused on decarbonizing electricity and transportation*
- *Deployment of RES in H&C is not in line with climate change targets*

Share of energy from renewable sources in heating and cooling, 2023





# The REDI4Heat objectives

## Objective

- Acceleration of Renewable energy sources in heating and cooling
- Advisory services in 5 EU MS (EL, DE, PL, PT, HR) on how to comply with the new regulations

## Methodology

- Policy studies
  - Assessment / review of current legislation
  - Development of Strategic policy priorities
  - Drawing of Policy adoption measures
- Online tools
  - [Knowledge sharing centre](#)
  - [Heat Transition Toolbox](#)
- Dissemination & training
  - Meetings with stakeholders
  - Workshops and training
  - Publications

Oct 2023

Oct 2025

Oct 2024



# Achievements: Critical assessment of legislation

## 3 Policy briefs for RED – EED – EPBD



April 2024

### Towards efficient European heating and cooling:

#### Key implications of the Renewable Energy Directive (RED) revision

Policy brief



**A step towards the European climate energy transition**

Renewable energy is a cornerstone of the European Union's climate strategy and efforts to establish a sustainable energy framework. The adoption of the revised Renewable Energy Directive (RED) (2024/2446) in December 2023 constituted a pivotal milestone, as it outlined a robust 10% pathway to achieve a 14% consumption target of renewable energy sources by 2026. The European Union's clear energy transition strategy places a significant emphasis on the role of renewable energy. In July 2021, the unveiling of the Fit for 55 Package represented a significant step towards aligning with the EU Climate Law, which envisages a robust reduction of greenhouse gas emissions by at least 55% by 2030 relative to 1990 levels. A fundamental aspect of this package is the revised Renewable Energy Directive, which incorporates provisions designed to accelerate

the use and integration of renewable and waste heat sources within the European energy framework. This mechanism legislative journey culminated with the enactment of the amended Directive (2024/2446) on 24 November 2023.

The REDI4HEAT project addresses the key challenges to the RED II as they will be key in driving the green transition of the heating and cooling sector.

**How renewable heat facilitates progress of renewables**

Following the 2009 and 2018 directives, the amended Directive, RED II, introduces a new headline target to double the heating share of renewable energy sources and set a long-term policy framework that will foster the integration of renewable sources in different contexts.



April 2024

### Towards efficient European heating and cooling:

#### Key implications of the Energy Performance of Buildings Directive (EPBD) recast

Policy brief



**Paving the way for a decarbonised building stock**

The Energy Performance of Buildings Directive directly contributes to the EU's energy and climate goals by striving for a fully decarbonised building stock by 2050. Buildings are the single largest consumer of energy in Europe. The buildings sector is therefore crucial to achieving the EU's energy and climate goals. 65% of buildings in the EU were built before 1990 and 75% of these have poor energy performance. Buildings account for a staggering 67% of energy consumption and 80% of this demand is for heating and cooling. Decarbonising existing building stock with the deployment of clean heating solutions will therefore be crucial to delivering cost-effective and sustainable homes and paving the way to help to achieve climate neutrality. Therefore, achieving the energy efficiency of buildings is critical to save energy and achieve a zero-emission and fully decarbonised building stock by 2050. To improve the energy performance of buildings, the EU has established a legislative framework that includes the Energy Performance of Buildings Directive (2010/31/EU), which has been revised in 2023. It provides a robust framework that will achieve a highly energy-efficient and decarbonised building stock by 2050, provide a solid framework for sustainable decarbonisation and enable consumers and businesses to make more informed choices to save energy and money.

The Energy Performance of Buildings Directive (EPBD) was originally adopted in 2002, targeting Member States to strengthen their building regulations and facilitate energy modernisation of buildings. The directive was substantially revised in 2010 as part of the Climate Energy for All European package. On 14 October 2023, the Commission published the EU Recast of the EPBD, which aims to improve

14% of energy consumed in the EU in 2021 was from renewable buildings	more than 1.7 billion people living in energy inefficient buildings	around 10% of the energy consumed in the EU is for heating and cooling
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Member States should promote the use of renewable heat in buildings and in the heating and cooling sector. The Commission will support the use of renewable heat in buildings and in the heating and cooling sector.



April 2024

### Towards efficient European heating and cooling:

#### Key implications of the Energy Efficiency Directive (EED) recast

Policy brief



**Revised EED for a more energy-efficient Europe**

Energy efficiency is pivotal to reaching the EU's climate goals while ensuring energy security and affordability. With the EED recast, the EU is committed to energy efficiency by 2030, compared to 2020, and to achieve a 14% decrease in primary energy consumption and a 14% drop in heat energy consumption by 2030, helping the target levels set partly due to the impact of COVID-19 pandemic. In alignment with the EU Climate Deal and its objective of reducing greenhouse gas emissions by at least 55% by 2030, the Energy Efficiency Directive (EED) has undergone a significant revision, as part of the Fit for 55 package, included in the official journal on 20 September 2023. The revised EED sets a higher bar for energy efficiency, introducing several ambitious measures aimed to transform heating practices in both residential and commercial settings.

The revised directive increases the EU's energy efficiency target, increasing emissions from the heating and cooling sector by an additional 11.7% reduction in

energy consumption by 2030 compared to the projected level in 2018. It includes energy efficiency first as a principle of EU energy policy, giving it legal standing for the first time. This marks a significant milestone towards prioritising energy efficiency solutions across planning, policymaking and major investment decisions. Commercial heating systems will undergo realisation based on their environmental impact, with performance goals in their heating systems energy efficiency policies.

The REDI4HEAT project addresses the key challenges to the EED as they will be key in driving the green transition of the heating and cooling sector.

**Decarbonisation heating and cooling emissions as part of National Energy and Climate Plans (NECPs)**

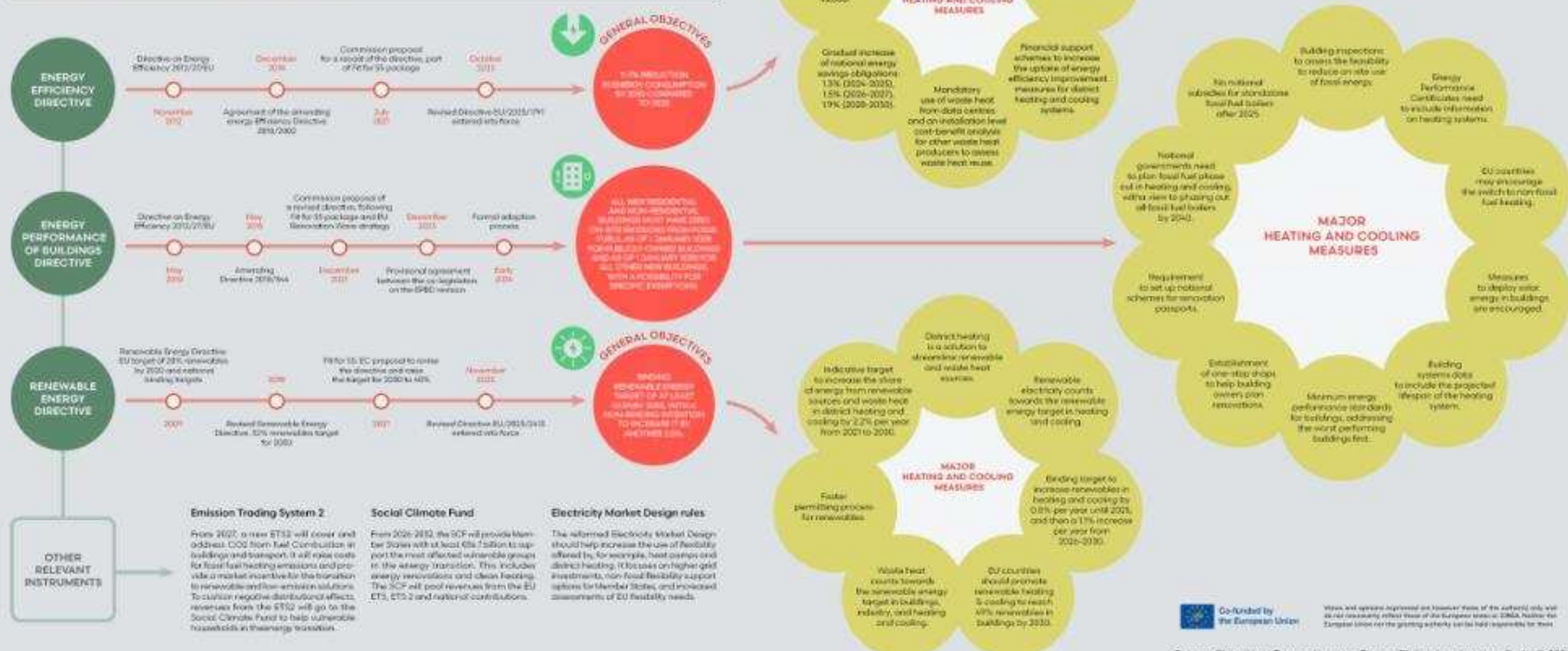
As part of the national energy and climate plans (NECPs), Member States (MSs) must submit a thorough assessment of their heating and cooling systems to the European Commission. Stakeholders affected by these assessments have the opportunity to



# Renewable Heating & Cooling Measures Map: EU Green Deal policies overview

Heating and cooling account for 50% of the total energy consumption in Europe, out of which 75% is sourced from fossil fuels. Decarbonising this sector is crucial to achieving the energy transition. To this end, the European Union has

equipped itself with three key instruments: the Energy Efficiency Directive, the Renewable Energy Directive, and the Energy Performance of Buildings Directive.





# Achievements: Tools and Resources

## Knowledge Sharing Centre

REDI4HEAT / Knowledge Sharing Centre



**Heat Transition Toolbox**



**Studies & Strategies**



**EU related projects**



**Best practices**



**Policies & Legislation - Heating & Cooling**

## Heat Transition Toolbox

This toolbox is designed to support national, regional and local stakeholders on their path to the heat transition. With a range of free software tools, our Europe-wide collection of tools enables a wide range of RHC system specifications for individual end customers as well as entire heating network systems, supplemented by comprehensive guidelines for building viable business models and implementing essential financing strategies. Beyond technical support, our resources extend to fostering inclusive co-creation initiatives with citizens and promoting inclusive participation and awareness within communities. Find the right measures to take concrete steps together towards a sustainable future in your country, region or community.

# Achievements: Capacity Building events



Thessaloniki, Greece, 2025



Warsaw, Poland, 2024



Braga, Portugal, 2025



Zagreb, Croatia, 2025



Halle, Germany, 2024



Decarb Cities Conference, 2025

# The findings

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## Good

- ✓ NECPs are a powerful tool for the EU and its Member States to drastically accelerate climate action and the energy transition already in this decade.
- ✓ The 2024 final NECPs showed improvements compared to the older versions and drafts.
- ✓ The RES and EE targets have improved to better align with EU legislation.



# The findings

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## Bad

- û Gaps and inconsistencies between the stated targets and planned measures
- û Unclear policies and investments attached to the targets
- û Inefficient support framework for energy efficiency
- û Insufficient incorporation of just transition elements
- û Unclear schedule and targets for the phase out of fossil fuels
- û Gaps in the transparency and quality of climate and energy data

# Looking ahead

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- **Support the core project ideas** - decarbonisation of heating and cooling
- **Build on REDI4Heat's achievements** - continued real impact
- **Support the policy uptake** - solutions reach society
- **Upcoming EPBD & EED transpositions** – new opportunity for heating and cooling

Stay inspired & connected – the REDI4Heat community lives on!

**Dr Rosie Christodoulaki**

[christodoulaki@cres.gr](mailto:christodoulaki@cres.gr)

Centre for Renewable Energy Sources and Savings

Department of Solar energy and Energy storage



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**The REDI4Heat tools & resources and the Assessment Guidelines**



**Silvia Remedios**

Project Manager for the Strategy, Policy and Projects  
Department at Adene Agência para Energia



Agência para a Energia



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# The REDI4HEAT Project: Tools & Resources and the Assessment Guidelines

**Sílvia Remédios**

Project Manager

ADENE – Agência para a Energia

**23 sep.**

**2025**

**09h30 – 14h30**



Agência para a Energia



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# CONTENTS

1. Policies/Recommendations
2. Tools & Resources
3. Events/Networking

# Methodology

- **Policies / Recommendations**

- Assessment of current legislation
- Strategic Policy Priorities
- Policy Adoption Measures for the decarbonization of the H&C sector

- **Tools & Resources**

- Knowledge Sharing Centre/Heat Transition Toolbox
- NECP Assessment Guidelines
- Policy tracker

- **Events / Networking**

- Capacity Building initiatives
- Workshops / High-level meetings
- Awareness-raising campaigns
- Publications



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# Policy Adoption Measures

- **Portfolio of Measures to Accelerate the decarbonization of the H&C sector**
  - Total: 25 Measures
  - Sector: DHC | Residential | Non-Residential | Other
  - Type: Policy | Technical | Market & Capacity Building | Other
- **Objectives:**
  - Improve energy security;
  - Reduce dependence on fossil fuels;
  - Promote the involvement of local authorities and stakeholders by raising awareness and strengthening capacities;
  - Identify effective strategies for policy-making that support the integration of renewables in the H&C sector at national, regional and local levels.



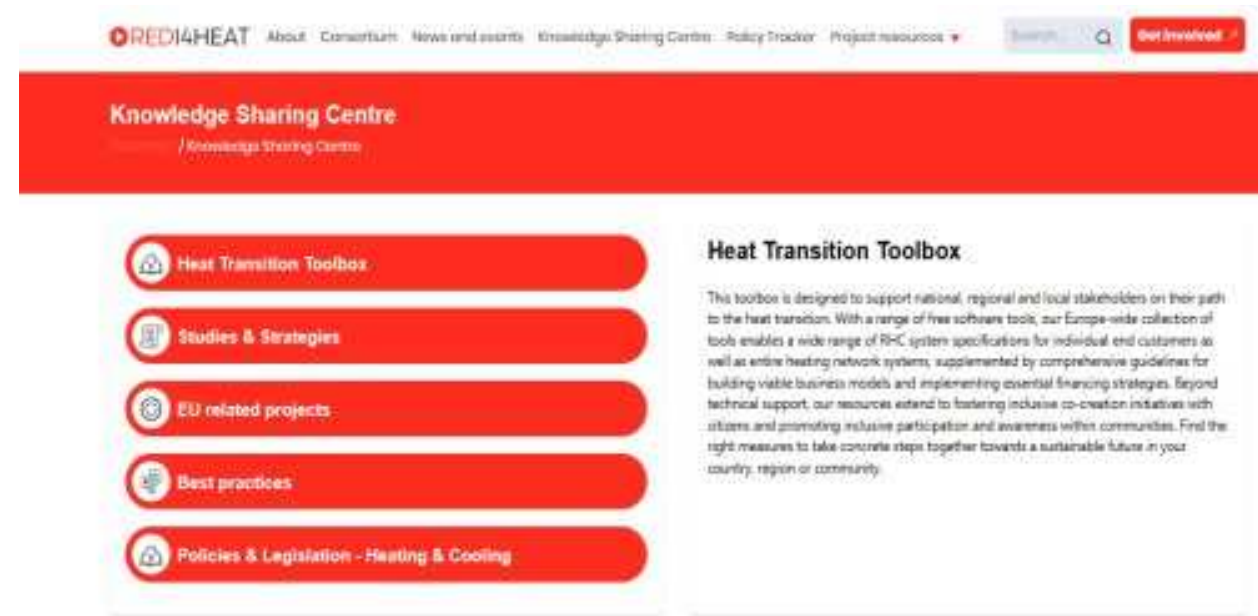
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# What is the Knowledge Sharing Centre?

The REDI4HEAT Knowledge Sharing Centre is a **platform designed to facilitate the exchange of information and best practices related to heating and cooling** within the framework of the Renewable Energy Directive, the Energy Efficiency directive, and the Energy Performance of Buildings Directive.



[Knowledge Sharing Centre – REDI4HEAT \(ehpa.org\)](https://ehpa.org)

# Knowledge Sharing Centre/Heat Transition Toolbox

### EU funding strategy for four regional heating and cooling projects (Europe)

The report contains tailored EU funding strategies for four regional heating and cooling projects, namely Andalusia (ES), Western Macedonia (GR), Castilla y León (ES) and North East Romania (RO). It follows a previous study, which provided an overview of EU funding sources for the regional heating and cooling sector. The study provides an overview of the projects followed by a brief introduction of the EU funds that match each project. Subsequently, a recommended EU funding strategy is provided for each project. Preferably, the funding strategy provides a combination of EU funding sources.

[Download from the FactSheet](#)

Type: Guide  
Source language: English  
Relevant stakeholders: Government, Energy industry  
Sector: Other  
Level: National  
Category: Financial

[View information](#)

### EU Funding Strategy for Four Regional Heating and Cooling Projects

EU funding strategy for four regional heating and cooling projects

Download from the FactSheet

Download from the FactSheet

### Toolbox Categories

This report contains a tailored EU funding strategy for four regional heating and cooling projects, namely Andalusia (ES), Western Macedonia (GR), Castilla y León (ES) and North East Romania (RO). This study follows a previous study, which provided an overview of EU funding sources for the regional heating and cooling sector.

Country: Europe  
Category: Technical  
Region: Guide  
Language: English  
Source: <https://www.adene.eu/publication-detail/publication/60644ee-7971-416b-8955-81aa73ed71a1/language-en>

Summary:  
This report offers tailored financial strategies to enhance the success of heating and cooling initiatives in Andalusia, Western Macedonia, Castilla y León, and North East Romania. By aligning specific projects with appropriate EU funding sources, the guide helps stakeholders secure essential financial support, improving the economic feasibility of these energy projects. This strategy is particularly beneficial for governments and the energy industry at the national level, facilitating the heating transition through optimized funding. The guide not only identifies suitable EU funds but also recommends combined funding strategies, maximizing financial benefits. This comprehensive approach supports the development of sustainable heating and cooling solutions across Europe, promoting energy efficiency and cost savings.

### Heat Transition Toolbox


Heat Transition Toolbox

This toolbox is designed to support national, regional and local stakeholders on their path to the heat transition. With a range of free software tools, our Europe-wide collection of tools enables a wide range of HFC system specifications for individual and customer as well as active heating network systems, supplemented by comprehensive guidelines for building viable business models and implementing essential financing strategies. Beyond technical support, our resource extend to facilitating inclusive co-creation initiatives with citizens and promoting inclusive participation and awareness within communities. Find the right measures to take concrete steps together towards a sustainable future in your country, region or community.


Heat Transition Toolbox

- Studies & Strategies
- EU related projects
- Best practices
- Policies & Legislation - Heating & Cooling

Type	Source language	Relevant stakeholders	Sector	Level	Category
<input type="checkbox"/> Guide <input type="checkbox"/> Case example <input type="checkbox"/> Application <input type="checkbox"/> Practical instrument <input type="checkbox"/> Campaign	<input type="checkbox"/> English <input type="checkbox"/> Dutch <input type="checkbox"/> Portuguese <input type="checkbox"/> German <input type="checkbox"/> Polish <input type="checkbox"/> French <input type="checkbox"/> Spanish <input type="checkbox"/> Italian	<input type="checkbox"/> Government <input type="checkbox"/> Energy industry <input type="checkbox"/> Private industry <input type="checkbox"/> Citizens <input type="checkbox"/> Industry <input type="checkbox"/> Municipalities <input type="checkbox"/> Local authorities	<input type="checkbox"/> Other <input type="checkbox"/> District heating <input type="checkbox"/> Industry <input type="checkbox"/> Residential buildings <input type="checkbox"/> Non-residential buildings/industry	<input type="checkbox"/> Local <input type="checkbox"/> National	<input type="checkbox"/> Research <input type="checkbox"/> Market and capacity building <input type="checkbox"/> Other <input type="checkbox"/> Technical <input type="checkbox"/> Policy



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# Methodology

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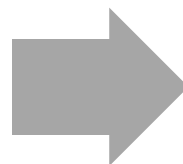


# NECP Assessment Guidelines

- Methodology based on two phases:
  - **Assessment of the weakness and loopholes in policy document based on Strategic Policy Priority Areas (SPPs);**
  - **Identification of relevant options and actions.**
- Based on data from policy document; relaying on subjective assessment of assessor.

## 1<sup>st</sup> phase - Evaluation of plan's weaknesses & loopholes

- Step 1 - evaluate the relevance of an assessed element
- Step 2 - evaluate the completeness of the policy document in addressing the element
- Step 3 - identify the priorities



## 2<sup>nd</sup> phase - Identify relevant options and actions

- Step 1 - evaluate the relevance of actions and measures
- Step 2 - Identification of appropriate monitoring indicators

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- **Policies / Recommendations**

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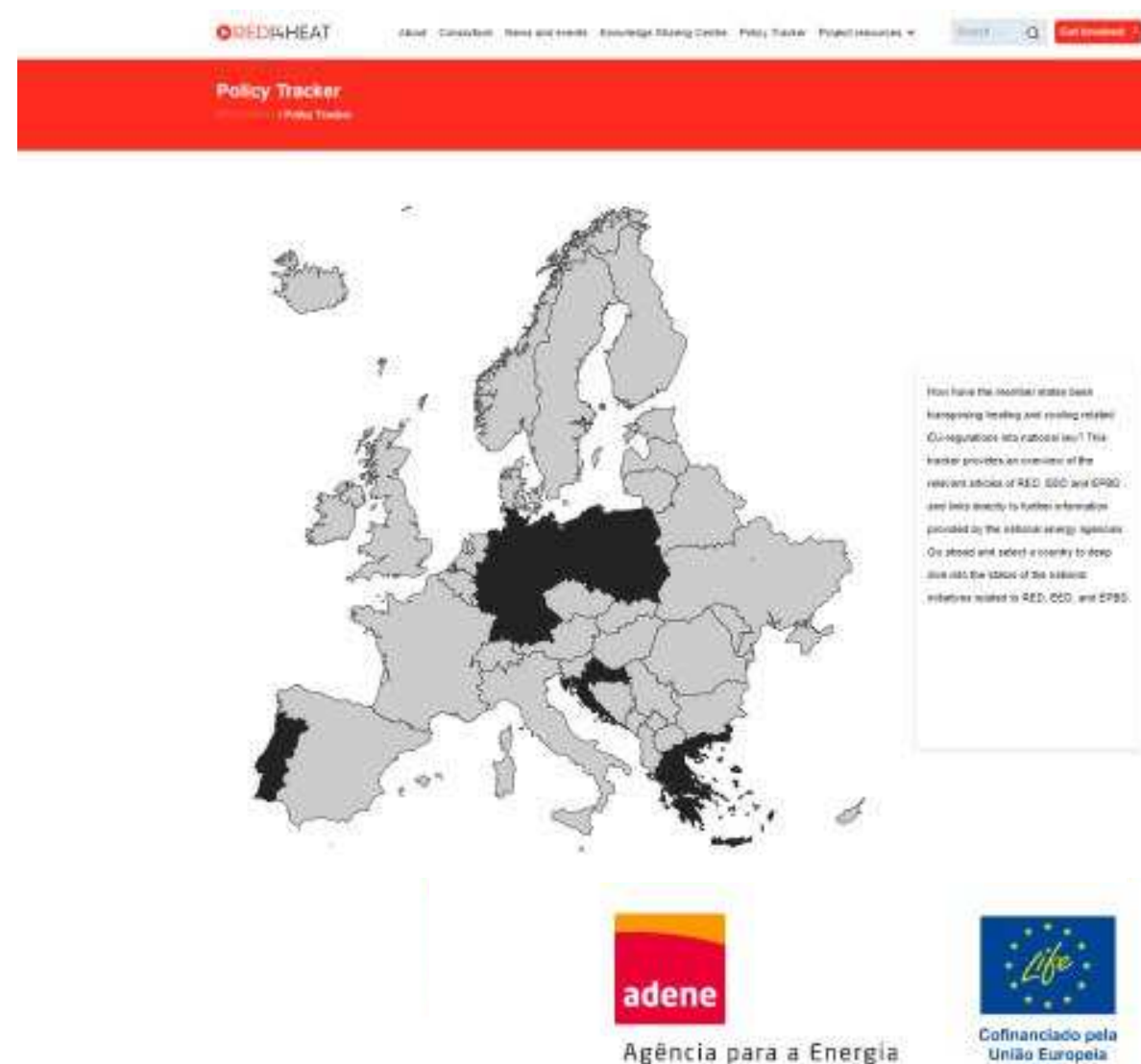
- **Events / Networking**

- Capacity Building initiatives
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- Awareness-raising campaigns
- Publications



# What is the *Policy Tracker*?

- The REDI4HEAT policy tracker **shows the transposition of H&C related EU directives into the national framework** of the individual member states;
- It serves as a **low barrier starting point** for further research on H&C policies of the participating countries.





# Policy Tracker: Added Value

- **Wide scope:** covers the central H&C related directives from the fit-for-55-package (RED, EED, EPBD);
- Transnational / Pan-European;
- **Constructive approach:** the tracker focuses on **solutions and mutual inspiration**.

Regulation: EED		
<p><b>Article 25: Heating and cooling assessment and planning</b></p> <p><b>Requirement:</b> Cities with more than 10 thousand inhabitants must establish a (H)CPC National Initiative. <a href="#">Link to source</a></p> <p><b>Not yet implemented</b> This requirement is new under the EED 2023/1791. The requirement may be included in the forthcoming update of the Decree-Law n.º 161-A/2012 which sets out provisions on energy efficiency and cogeneration production, or in the future update of the Decree-Law n.º 161/2012 which approves the review of the Legal Framework for National Management Instruments, until its actual update. <a href="#">Link to source</a></p>	<p><b>Requirement:</b> Cities with more than 100,000 inhabitants must establish a (H)CPC National Initiative. <a href="#">Link to source</a></p> <p><b>Not yet implemented</b> This requirement is new under the EED 2023/1791. The requirement may be included in the forthcoming update of the Decree-Law n.º 161-A/2012 which sets out provisions on energy efficiency and cogeneration production, or in the forthcoming update of the Decree-Law n.º 161/2012 which approves the review of the Legal Framework for National Management Instruments, until its actual update. <a href="#">Link to source</a></p>	<p><b>Requirement:</b> EED must review recommendations for the preparation of (H)CPC and (H)CPC National Initiative to municipalities. <a href="#">Link to source</a></p> <p><b>Not yet implemented</b> This requirement is new under the EED 2023/1791. The requirement may be included in the forthcoming update of the Decree-Law n.º 161-A/2012 which sets out provisions on energy efficiency and cogeneration production, or in the forthcoming update of the Decree-Law n.º 161/2012 which approves the review of the Legal Framework for National Management Instruments, until its actual update. <a href="#">Link to source</a></p>
<p><b>Article 26: Heating and cooling supply</b></p> <p><b>Requirement:</b> Cities with more than 100,000 inhabitants must establish a (H)CPC National Initiative. <a href="#">Link to source</a></p>	<p><b>Requirement:</b> Cities with more than 100,000 inhabitants must establish a (H)CPC National Initiative. <a href="#">Link to source</a></p>	<p><b>Requirement:</b> The update of the Decree-Law n.º 161-A/2012 which sets out provisions on energy efficiency and cogeneration production, or in the forthcoming update of the Decree-Law n.º 161/2012 which approves the review of the Legal Framework for National Management Instruments, until its actual update. <a href="#">Link to source</a></p>

# Methodology

- **Policies / Recommendations**

- Assessment of current legislation
- Strategic Policy Priorities
- Policy Adoption Measures for the decarbonization of the H&C sector

- **Tools & Resources**

- Knowledge Sharing Centre/Heat Transition Toolbox
- NECP Assessment Guidelines
- Policy tracker

- **Events / Networking**

- **Capacity Building initiatives**
- Workshops / High-level meetings
- Awareness-raising campaigns
- Publications



Agência para a Energia



Cofinanciado pela  
União Europeia

# Capacity Building Initiatives

## Objectives:

- Promote **peer-to-peer learning**;
- Highlight **good practices and existing experiences** on the topic of heating and cooling;
- **Expand and strengthen** national stakeholder groups supporting the decarbonization of the H&C sector.



# Capacity Building: National Level



- **1 workshop** to present the capacity-building sessions programme, sharing relevant case studies, exchanging ideas on barriers and challenges, and strengthening the connection between stakeholders.
- **1 study tour** for observation of good practices on the ground, collection of direct experiences, and establishing direct contacts.
- **3 capacity-building events** focused on tools available in the Heat Transition Toolbox and the action plan / Policy Adoption Scenario for the decarbonization of the H&C sector.



# Capacity Building: EU Level



- **3 workshops (in-person)**
  - Valencia, Spain
  - Besançon, France
  - Krakow, Poland
- **2 workshops (*online*)**
  - “Involving citizens in community heating projects”;
  - “Transposing EU Regulation into National Transformation Strategies – Accelerating Renewable Heating and Sector Coupling”.

**Thank you for  
your attention!**



Feel welcome to contact:

Sílvia Remédios | ADENE

**[silvia.remédios@adene.pt](mailto:silvia.remédios@adene.pt)**

# FINAL CONFERENCE

*Accelerating Renewable Heating and  
Cooling for a Decarbonised Europe*

23 September 2025 - 9:30 to 14:30  
MIX, Brussels

## COFFEE BREAK



From 11:00 to 11:20



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# FINAL CONFERENCE

*Accelerating Renewable Heating and Cooling for a Decarbonised Europe*

23 September 2025 - 9:30 to 14:30  
MIX, Brussels

## Panel discussion Renewable heating: Has the European Clean Energy Deal delivered?



**Sanjeev Kumar**  
Policy Director at EGEN



**Juan Antonio Lopez Romero**  
Policy and Regulation Manager  
at Iberdrola



**Francesco Robimarga**  
Policy and Advocacy Officer  
at REHVA



**Duncan Gibb**  
Senior Advisor at the Regulatory  
Assistance Project



**Edwige Porcheyre**  
Project Coordinator at Enerplan



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# FINAL CONFERENCE

*Accelerating Renewable Heating and Cooling for a Decarbonised Europe*

23 September 2025 - 9:30 to 14:30  
MIX, Brussels

## Panel discussion Shaping the future: how do EU policy actions impact the energy landscape?



**Leopoldo Micó**  
Head of Keymark at EHPA



**Davide Sabbadin**  
Deputy Policy Manager for  
Climate & Energy at European  
Environmental Bureau



**Allison Le Corre**  
Communications & Campaigns  
Coordinator at EU Covenant of  
Mayors



**Lucia Verardi**  
Senior Policy Officer  
at SmartEn



**Irene di Padua**  
Policy Director  
at Bioenergy Europe



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# FINAL CONFERENCE

*Accelerating Renewable Heating and Cooling for a Decarbonised Europe*

23 September 2025 - 9:30 to 14:30  
MIX, Brussels

**Best Practices on Renewable Energy  
for heating and cooling**

 **REDI4HEAT**



Co-funded by  
the European Union



**Stefanos Pallantzias**  
Building Certifier at Hellenic Passive House Institute

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# REDI4HEAT

Renewable Energy Directive implementation for heating and cooling



HELLENIC  
PASSIVE HOUSE  
INSTITUTE

Build better. Live better.

Stefanos Pallantzas, Building Certifier

High Level Event, 23 Sept 2025, The MIX hotel Brussels

# About Us





# Hellenic Passive House Institute

HPHI is a Non-profit Organisation that was established in 2012 in order to raise awareness about the building stock's contribution to the climate crisis, since it's **responsible for 40% of CO2 emissions**, through the **Passive House concept**.

---

We raise awareness about the Passive House concept, support Passive House projects, educate professionals in order to obtain the “**Passive House Designer**” **certification** and certify buildings that meet the Passive House criteria.

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HPHI has **2 accredited Passive House Building Certifiers** - currently there around 60 Certifiers in the world.

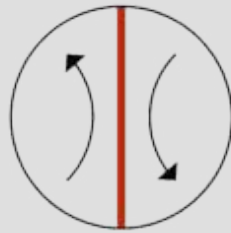
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HPHI is an **international working group** composed by 45 building Professionals

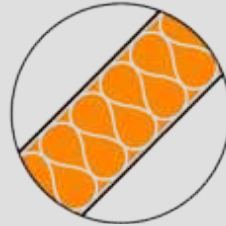


# 5 Principles of a Passive House

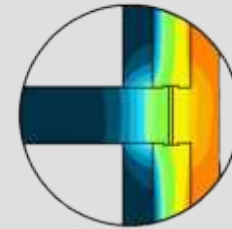
+++ Efficient  
H&C systems  
with Zero  
Carbon  
Emissions



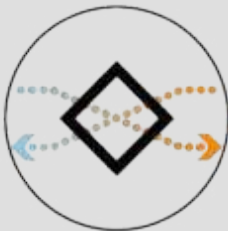
Airtightness



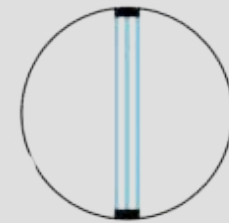
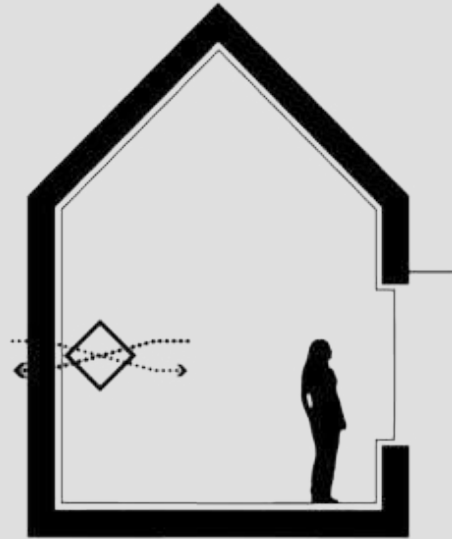
Continuous Insulation



No Thermal Bridges



Mechanical Ventilation with  
Heat Recovery



High-Performance Doors &  
Windows

# Our Projects

The HPHI has been involved in more than 100 PH projects in Greece & worldwide and has certified PH buildings all over the world.



Istanbul, Türkiye



Thessaloniki, Greece



# Large-scale Project



Multifamily New Build



780 m<sup>2</sup>



Halandri, Athens Greece

---

HPHI contribution

**Hp's for heating-cooling-DHW**

- Energy Design
- Hygrothermal Simulation
- Implementation Study
- Site Supervision
- Thermal Comfort Analysis
- Certification

---

Certifier: Stefan Pallantz

Architect: Maria Kaltsa



# Special Project



Off Grid Single Family Villa



131 m<sup>2</sup>



Aegina Island, Greece

## HPHI contribution

**Combi HP/Ventilation unit for heating/ cooling, all produced on site**

- Energy Design
- Hygrothermal Simulation
- Implementation Study
- Site Supervision
- Thermal Comfort Analysis
- Certification

## Calculations

- Heating Demand:  
15,1 kWh/m<sup>2</sup>a
- Cooling Demand  
11,77 kWh/m<sup>2</sup>a

Certifier: Stefan Pallantz, HPHI

Architect: Vesko Mutafchiev

# Large-scale Project



International Oncology Center by Iatriko Athinon



6,250 m<sup>2</sup> (new construction)



Thessaloniki, Greece

## HPHI contribution

HP's and Ventilation for heating and cooling (Gas as a backup , but never used)

- Energy Design
- Implementation Study
- Thermal Comfort Analysis
- CFD Analysis
- Site Supervision
- Certification

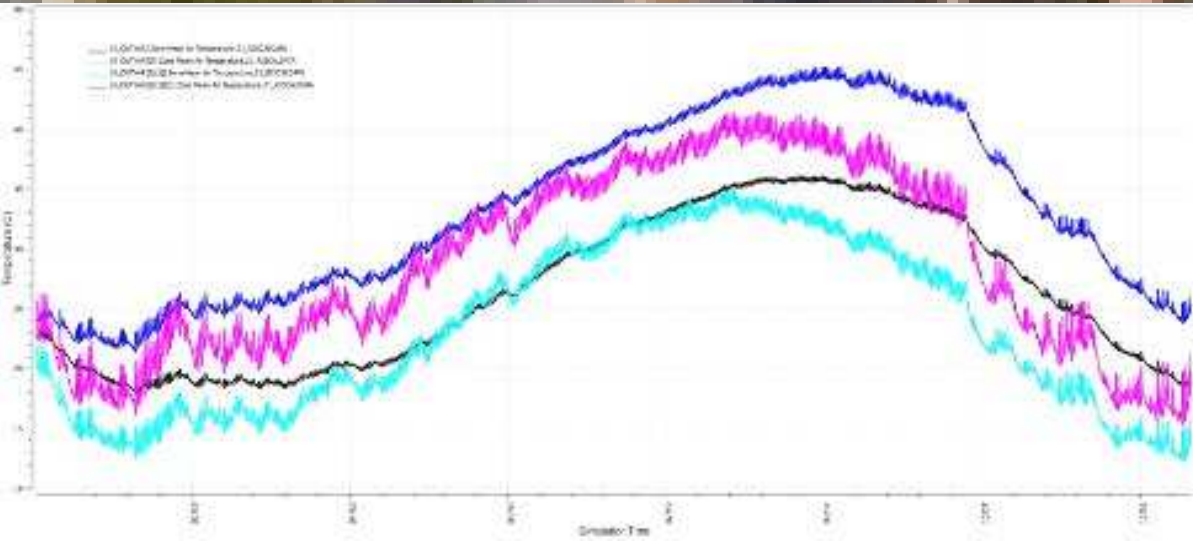
## Calculations

- Heating Demand: 13.8 kWh/m<sup>2</sup>a
- Cooling Demand: 15,5 kWh/m<sup>2</sup>a

Certifier: Stefan Pallantzias, HPHI

Architect: ASPA KST

Constructor: TERNA SA



# Special Project



The Tavros Project, 60s Multi-family building



750 m<sup>2</sup>



Tavros, Athens, Greece

---

## HPHI contribution

**Minisplits for heating/cooling, Solarpanels for DHW, all electricity needed produced on site.**

The second pilot project by the **Passivistas Team** which concerns the energy retrofit of a multifamily building following the Passive House standard. With the solar panels that will be added to the roof, the building will become a Positive Energy Building, meaning that it can produce more energy than it consumes, which results in zero energy bills for its users as ~~well as zero CO2 emissions.~~

---

Certifier: Stefan Pallantzas

Architects: Elena Anagnostopoulou  
Ilektra Mancini



# Large-scale Project



Stadtnatur Munich



3,124 m<sup>2</sup> (new construction)



Munich, Germany

---

HPHI contribution

District Heating supported by  
big HP's

- Energy Consultancy
- Tradesperson/workers training
- Certification

Calculations

- Heating Demand:  
14,3 kWh/m<sup>2</sup>a

---

Certifier: Stefan Pallantzas

Architect: Vallentin Architektur  
GmbH



# Large-scale Project



University of Victoria Residence Building



30,814 m<sup>2</sup> (new construction)



British Columbia, Canada

---

HPHI contribution

**Hp's for heating/ DHW**

- Energy Consultancy
- Certification

Calculations

- Heating Demand:  
13,8 kWh/m<sup>2</sup>a

---

Certifier: Roberto Iannetti, HPHI

Architect: Perkins & Will Architects Canada Co.

Energy Consultancy: RDH Building Science Inc.

Contractor: EllisDon Kinetic (A Joint Venture)

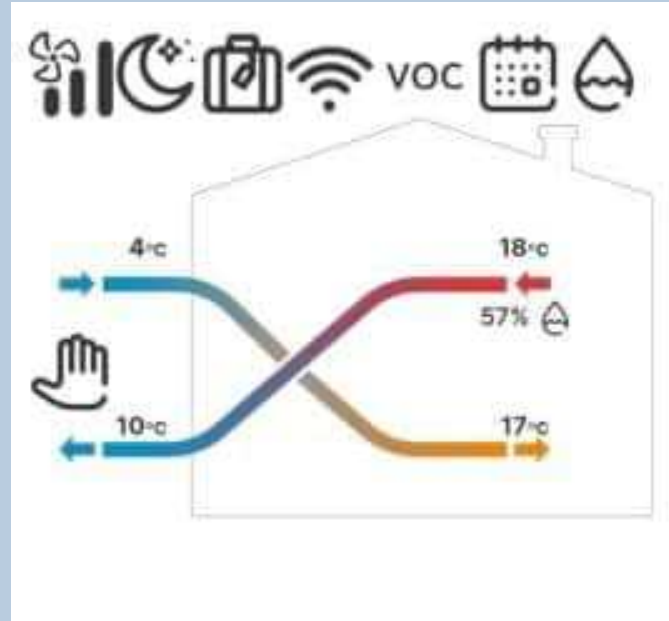
# The Result

Certified Passive House residence in Türkiye had 18°C indoor temperature without any heating, while it snowed outside.

- Minimisation of heating and cooling loads
- Decarbonisation of H&C
- Increase of indoor comfort

What was promised is what was delivered.

Indoor



Outdoor



We haven't needed any heating yet. The comfort is incredible. We thank you every day



11:03

Happy residents

Build better. Live better.



Passive  
House

+



Low Embodied Carbon

+



Electrify  
Everything

+



Clean  
Energy

=



Climate  
Action

*A **Passive House** decreases its energy demand as much as possible in order to **produce more than it consumes**.*

# Let's get in touch!



info@eipak.org



www.eipak.org



+30 211 408 1109



Tzanni Alevizatou 64,  
Papagou, 15669, Athens



@ Hellenic Passive House Institute



@ Hellenic Passive House Institute



@hellenic\_passive\_house\_inst



@hellenicpassivehouseinst



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# THANK YOU FOR STAYING WITH US!

*Last info: Lunch will be served in the  
Foyer of the Mix, at the ground floor*



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