



Act!onHeat Webinar

Introductory remarks

17 September 2024

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Act!onHeat support facility



From heating and cooling strategies to action: how public authorities can strategically plan the decarbonisation of the heating and cooling sector and initiate impactful projects

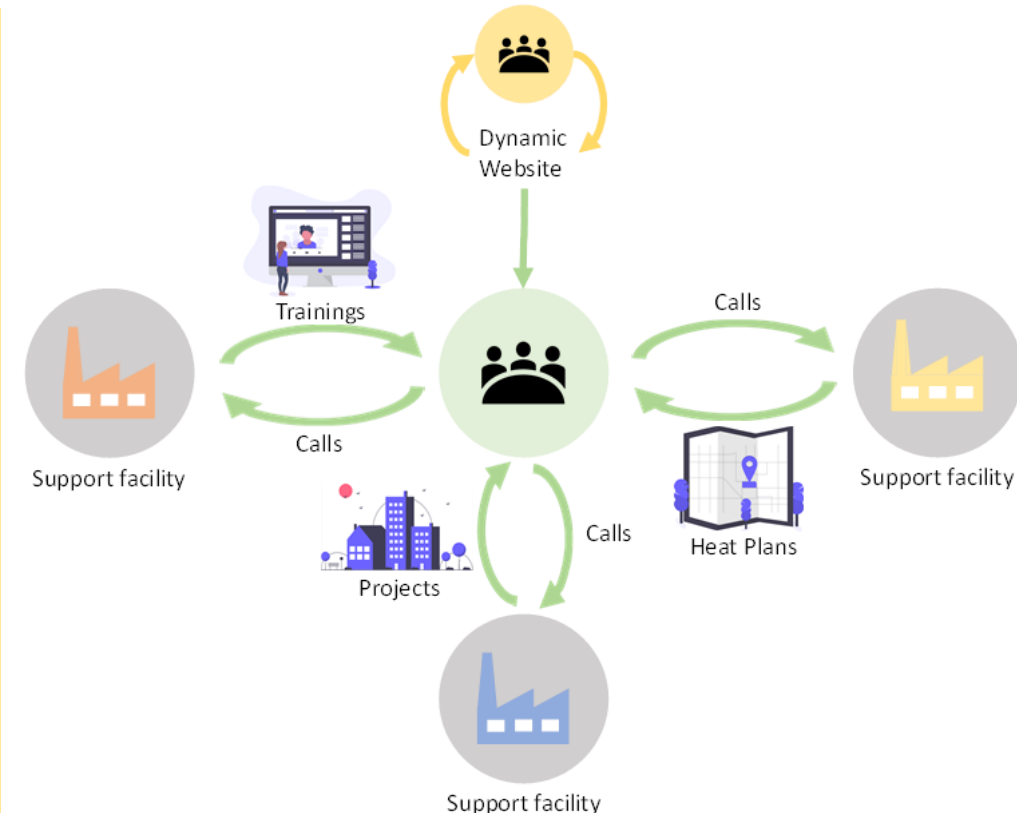
Building on **two existing open source tools**, i.e. Hotmaps and THERMOS

Identifying success factors of effective energy plans, turning them into **practical workflows**

Developing individual and group support in applying these workflows

- **Support municipalities** that start, continue or improve strategic heating and cooling plans
- **Support pre-feasibility studies** for individual projects
- Identify financing options for **projects**

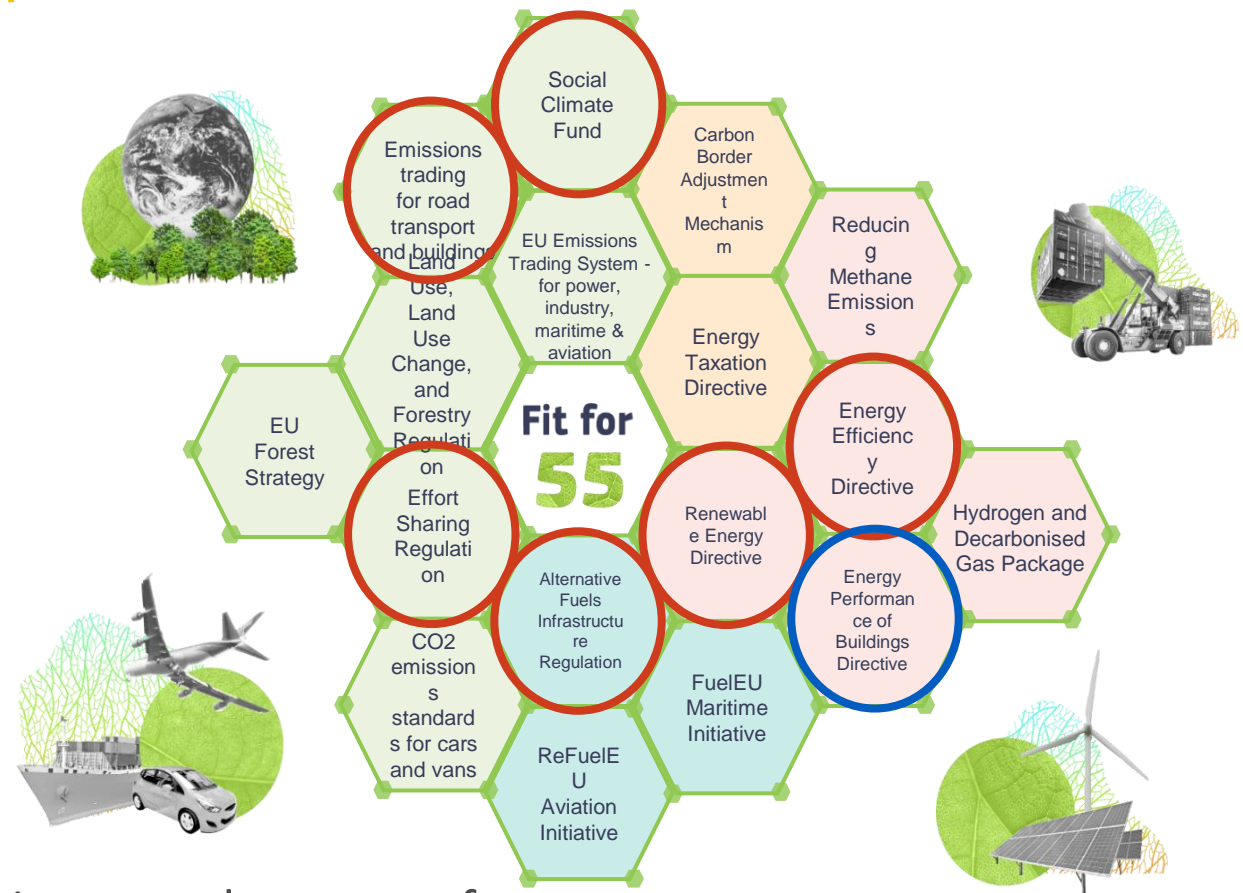
<https://cordis.europa.eu/project/id/101033706>



COORDINATOR: Fraunhofer ISI

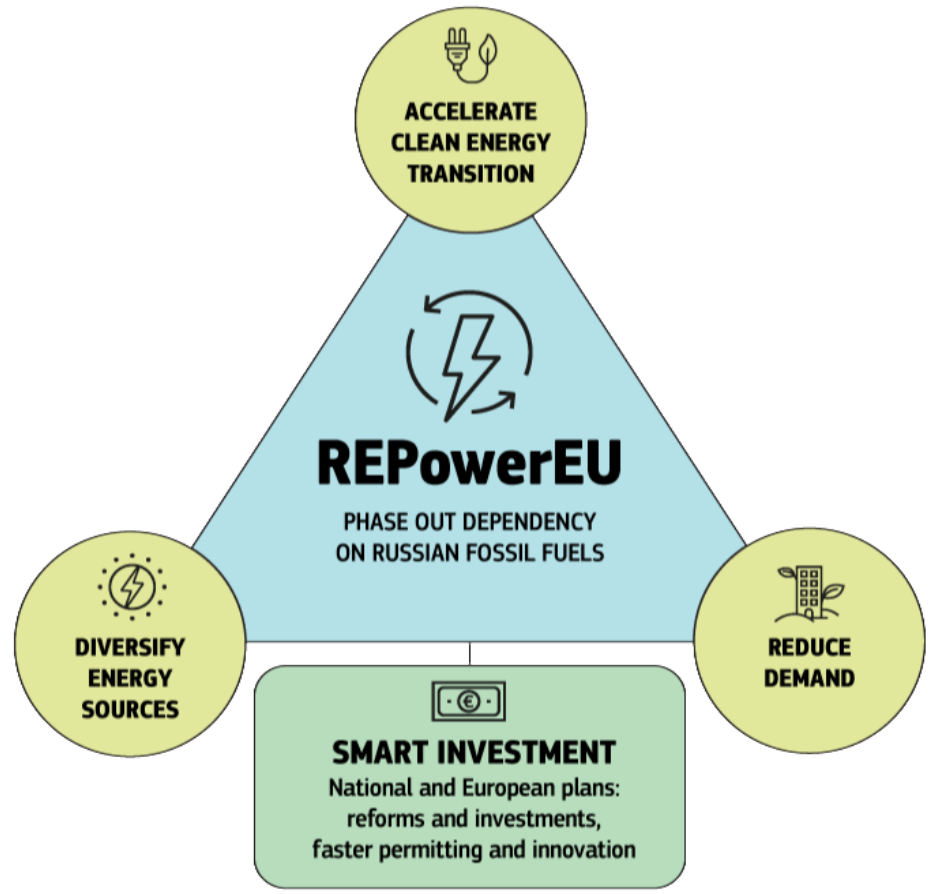


Policy context



Increase the target of renewable energy from 40% to **45%** by 2030

Increase the target of energy savings from 9% to **13%** by 2030



Complemented by:

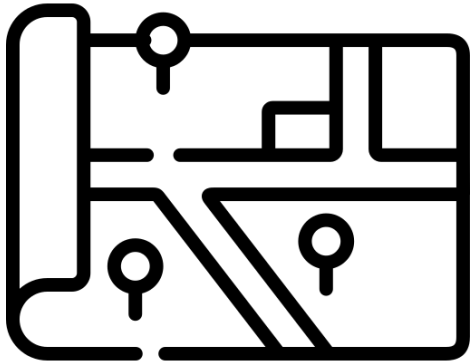
- [EU Save Energy Communication](#)
- [EU Solar Energy Strategy](#)

Energy Efficiency Directive

Article 25: Heating and cooling assessment and plans

Comprehensive heating and cooling assessment in NECP

Cost-benefit analysis to facilitate the identification of the most resource-efficient and cost-efficient solutions to meeting **heating** and **cooling** needs



If potential for high-efficiency cogeneration / efficient district heating and cooling from waste heat, Member States to take adequate measures for such infrastructure to be developed

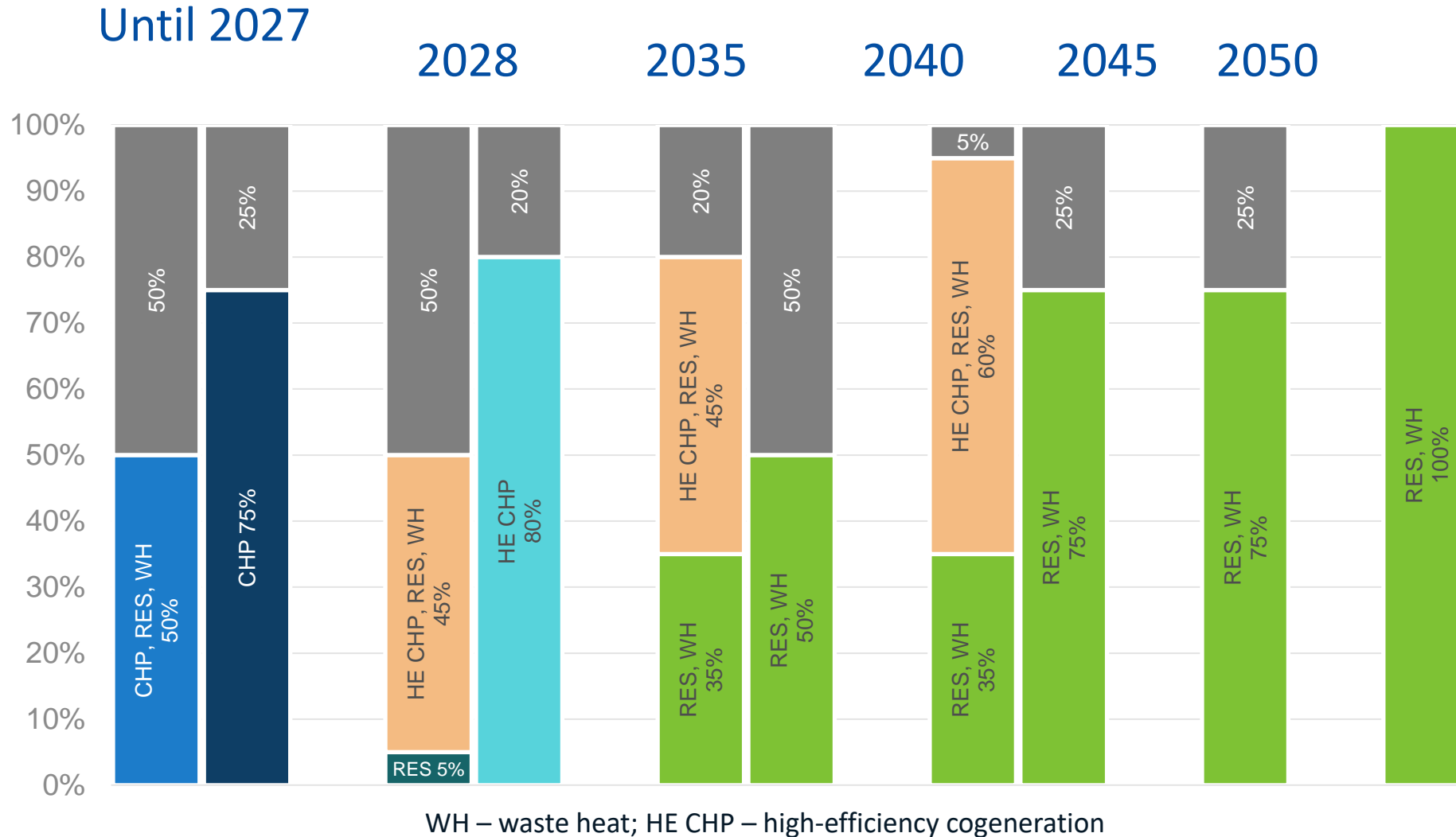
Encourage development of installations for waste heat, high-efficiency cogeneration and use of heating and cooling from waste heat and renewable energy sources

Regional and local authorities to prepare **local heating and cooling plans** at least in municipalities with a total population higher than **45.000**



Energy Efficiency Directive

Article 26: Efficient district heating and cooling



Energy Efficiency Directive

Article 26: Recommendation and guidance note

- How EU countries can identify efficient district heating and cooling systems.
- Ways to establish the planning obligations applicable to systems that do not fulfil the criteria for efficient district heating and cooling systems.
- How to ensure the efficient use of excess heat available from large energy consuming facilities, such as industries and data centres, and which are under planning.

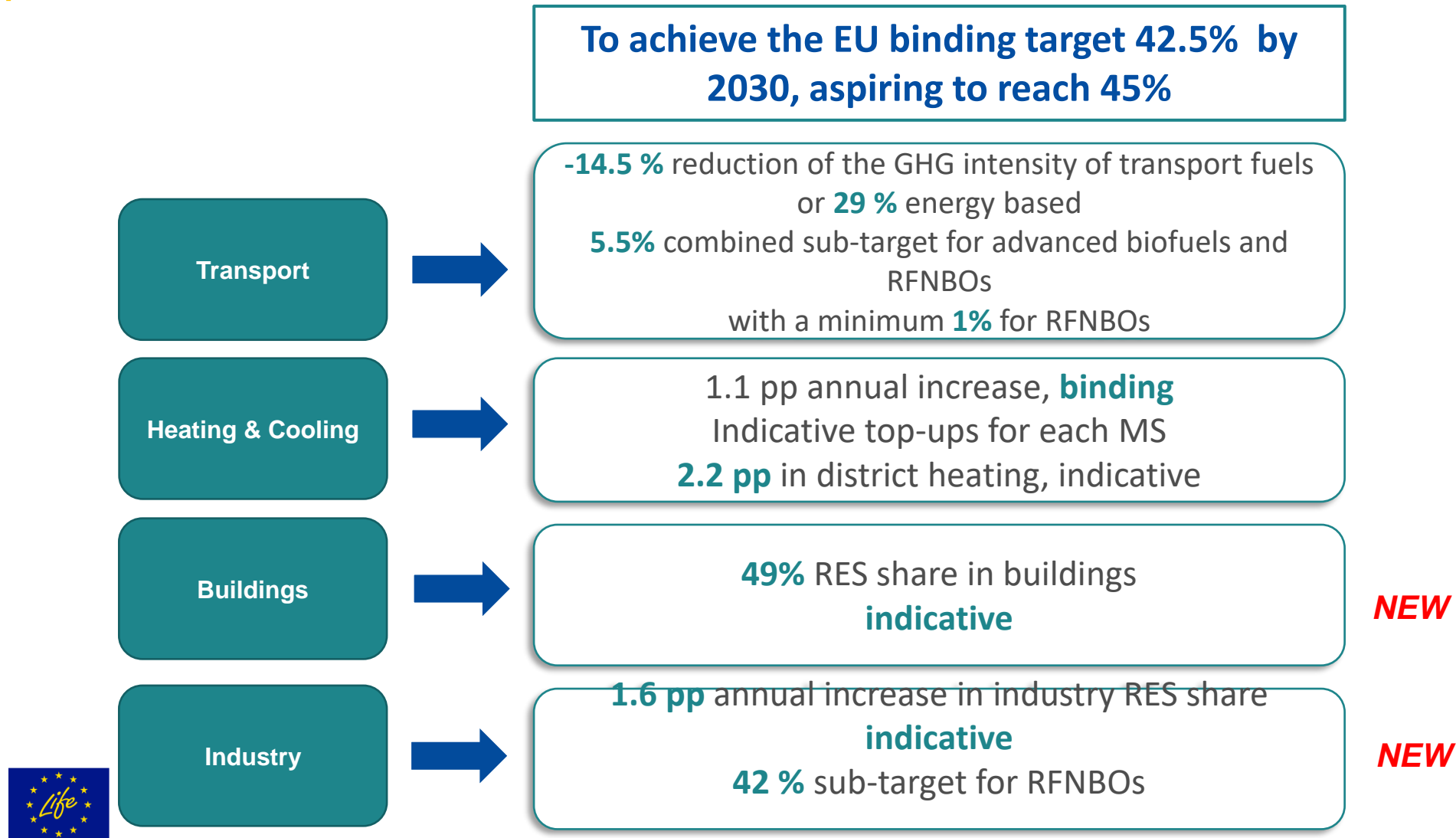


Available [here](#).

The screenshot shows the European Commission website. At the top, there is the European Commission logo and a search bar. Below the logo, the text 'Energy, Climate change, Environment' is visible. A navigation menu includes 'Home', 'Topics', 'Data and analysis', 'Studies', 'Publications', 'Consultations', 'Energy explained', 'Events', and 'News'. The main content area features a news announcement titled 'Commission adopts guidance to EU countries on implementing the revised directives on renewable energy and on energy efficiency', dated 2 September 2024, from the Directorate-General for Energy, with a 4-minute read time. Below the text is a collage of images: a person working on a piece of equipment, a close-up of a control panel with a digital display, and a close-up of a glass containing a yellow liquid.

RED III sectorial targets: overview

[Directive - EU - 2023/2413 - EN - EUR-Lex \(europa.eu\)](#)



EPBD: removing financial incentives to stand-alone boilers and a phase-out plan

- From **1 January 2025**: no more financial incentives to stand-alone boilers powered by fossil fuels (Article 17)
- **Legal basis for Member States to set requirements** on GHG emissions, share of renewables, type of fuel for heat generators (Article 13)
- Plan policies and measures **with a view to a complete phase-out of boilers powered by fossil fuels by 2040** through the national Building Renovation Plans (Article 3 and Annex II)

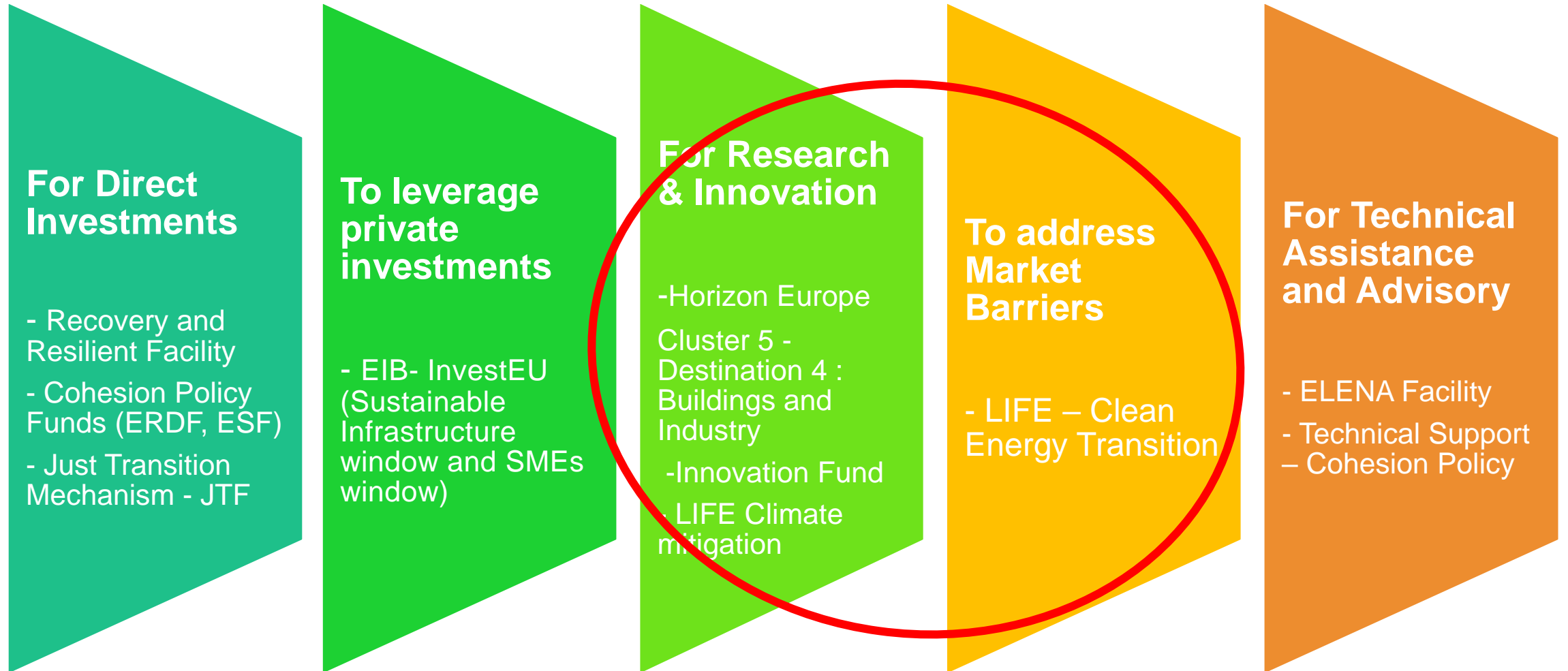


EPBD: Zero-emission buildings (Articles 7, 11, Annex III)

- **All new buildings to be zero-emission buildings (ZEBs):**
 - From 2028 public buildings owned by public bodies
 - From 2030 all new buildings
- Life cycle GWP calculation and disclosure through EPC
- Building on current Nearly zero-energy building (NZEB) m
- **ZEB will require:**
 - zero on-site emissions from fossil fuels
 - a very low amount of energy with a view to cost-optimal level but at least (NZEB - 10%)
 - Supplied by:
 - renewables from onsite, nearby, renewable energy communities
 - energy efficient DH&C
 - energy from carbon-free sources



EU funding landscape to support energy efficiency



Funding opportunities

EU Covenant of Mayors interactive funding guide

Shared management funds	European Funding Programmes	Technical assistance and advisory support	Financial Institutions Instruments	Alternative Financing Schemes
Cohesion Fund	Connecting Europe Facility (CEF)	European Energy Efficiency Fund – Technical Assistance Facility (eeef - TAF)	EIB – Municipal Framework Loans	Citizen Cooperatives
EAFRD – European Agricultural Fund for Rural Development	EU renewable energy financing mechanism	Just Transition Platform	InvestEU Fund	Energy Performance Contracting
EMFAF – European Maritime, Fisheries and Aquaculture Fund	Horizon Europe	LIFE Technical Assistance Projects	Public Sector Loan Facility	Green municipal bonds
ERDF – European Regional Development Fund	Innovation Fund	InvestEU Advisory Hub		On-bill-financing
ESF+	URBACT IV			Revolving loan funds
Just Transition Fund	LIFE			Soft loans, guarantees
	Territorial Cooperation			

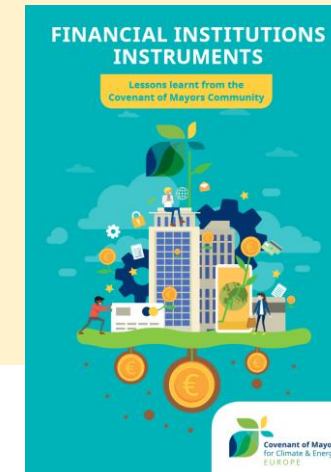
Support services

InvestEU Portal	EIAH - European Investment Advisory Hub	Financial Instruments Advisory (fi-compass)	European PPP Expertise Centre
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European Parliament Guide to EU Funding



Think Tank
European Parliament



The LIFE Programme 2021-2027

Objectives:

To contribute to the shift to a circular, energy-efficient, renewable energy based- and climate resilient economy

To protect and improve the quality of the environment

To halt and reverse biodiversity loss



Nature and Biodiversity



Circular Economy and Quality of Life



Climate Change Mitigation and Adaptation



Clean Energy Transition

Supported activities:

- Promote best practices and behavioral changes
- Catalyse the large scale deployment of successful solutions

On legislation and policies

- Support their development, monitoring and enforcement
- Help Member States to improve their implementation

Enabling actions for energy efficiency and renewable energy policy

removing market barriers, mobilising investments, improving skills, raising awareness, educating, empowering



LIFE-CET LOCAL – energy transition in cities & regions

- **Dedicated topic** in support to EU policies, complementary with other LIFE-CET areas and EU initiatives for local energy transition e.g. Covenant of Mayors
- **+50** projects funded since 2014 contributed to develop **+700** energy policies/plans
- **Aim:** building capacity on energy planning (e.g. SECAPs), delivering decarbonisation strategies and H/C plans, implementing sustainable energy actions in LRAs
- **Success stories:** [Local authorities as drivers for a decarbonised Europe](#) (2024), [Local Clean Energy Transition](#) (2022)



LOCAL projects supporting art 25 EED – development of local H/C plans

- **H2020 ActlonHeat** supported municipalities in developing or upgrading strategic heating plans, building on the open-source tools Hotmaps and THERMOS
- **H2020 DecarbCityPipes2050** developed guidance and H/C plans to decarbonise heating sector in Bilbao, Bratislava, Dublin, Munich, Rotterdam, Vienna, Winterthur
- **LIFE-CET ESCALATE** supports 12 cities in HR, FR, EL, IT, PL and SI by empowering regional energy agencies to develop 10 local H/C plans
- **LIFE-CET Plan4Cold** focuses on cooling, key issue for Southern EU, helping 14 cities in PT, IT and EL with H/C planning and aiming to develop 10 local H/C plans



LIFE projects supporting art 26 EED/RED: investment plans for DHC

LIFE-2022-CET-DH:

* Development of **investment plans** for existing networks operating at high-temperatures **to fulfil the proposed criteria for 'efficient district heating and cooling'**, defined in the revised EED

4 proposals were selected

LIFE-2023-CET- DHC:

Scope A: Technical support for the **development of investment plans**,

Scope B: **Skills development** of professionals, operators and public authorities

3 (Scope A) + 1 (Scope B) proposals were selected

LIFE-2024-CET- DHC

- Preparation of **investment plans for existing district heating systems** or
- Develop investment plans for **new district heating and/or cooling networks**,





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Thank you

