

Webinar Engaging citizens in heating projects

24 October 2024



Co-funded by
the European Union

PROJECT NAME: RED IMPLEMENTATION FOR HEATING AND COOLING
DURATION: 1/10/2022 - 30/09/2025 (36 MONTHS)

Are you ready for heat?



Intro

Project Name: RED IMPLEMENTATION FOR HEATING & COOLING

Funding:

European Climate, Infrastructure and Environment Executive Agency (CINEA), EU LIFE Programme

Coordination:

Center for Renewable Energy Sources (CRES)
Greece

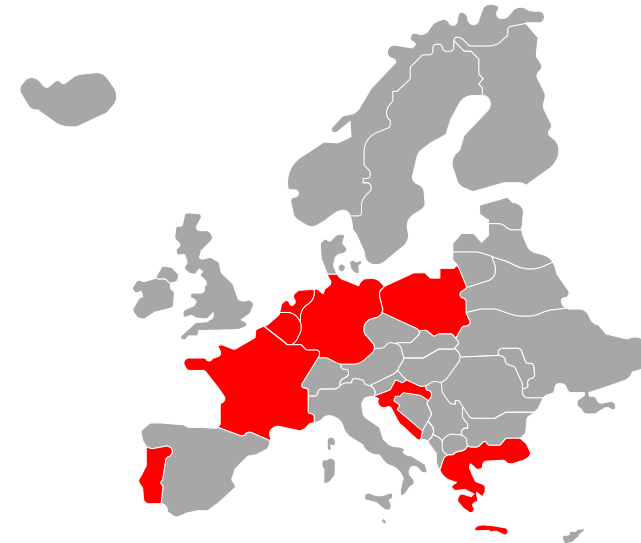
Duration:

1st October 2022 – 30th September 2025

Project's Countries participants:

Greece, Portugal, Poland, Croatia, Germany, Belgium, France, Netherlands

Consortium Partners:



Objectives

- **Accelerate the deployment of the Renewable Energy Sources in Heating and Cooling**
- **Assist 5 Member States (EL, DE, PL, PT, HR) and their local authorities to comply with new regulation**

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Policy Recommendations

- Assessment of the current legislation
- Strategic Policy priorities
- Policy adoption scenarios

Tools

- Knowledge sharing platform
- Heat Transition Toolbox

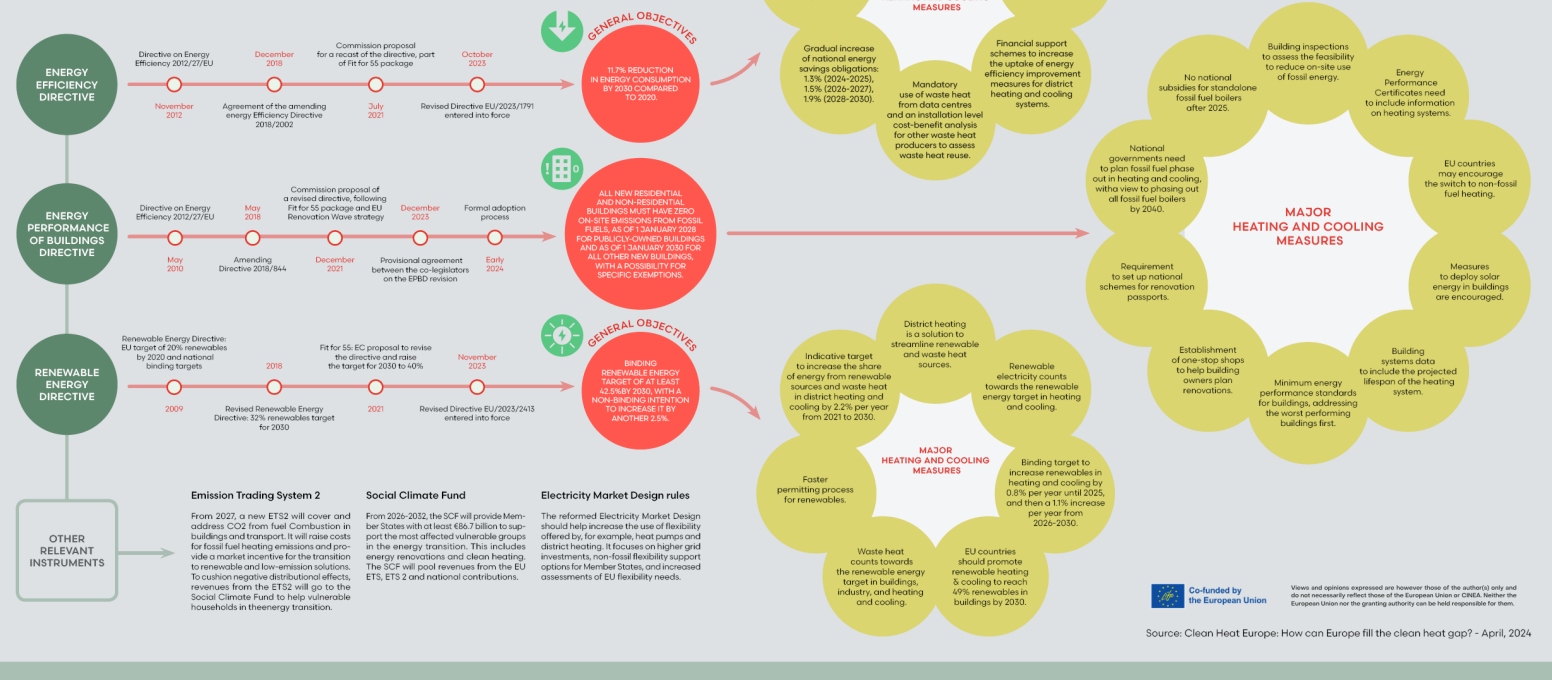
Events - Networking

- Capacity building events
- Workshops – High level meetings
- Awareness campaigns
- Publications

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

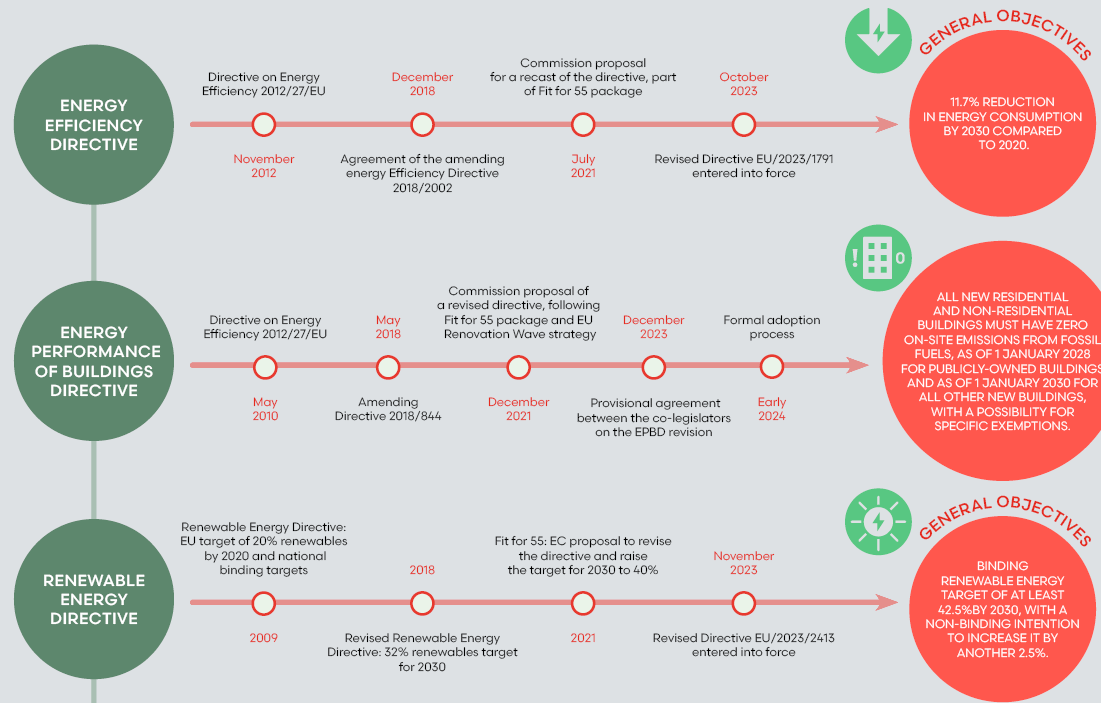
Heating and cooling account for 50% of the total energy consumption in Europe, out of which 75% is sourced from fossil fuels. Decarbonising this sector is crucial to achieving the energy transition. To this end, the European Union has equipped itself with three key instruments: the Energy Efficiency Directive, the Renewable Energy Directive, and the Energy Performance of Buildings Directive.



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

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GENERAL OBJECTIVES

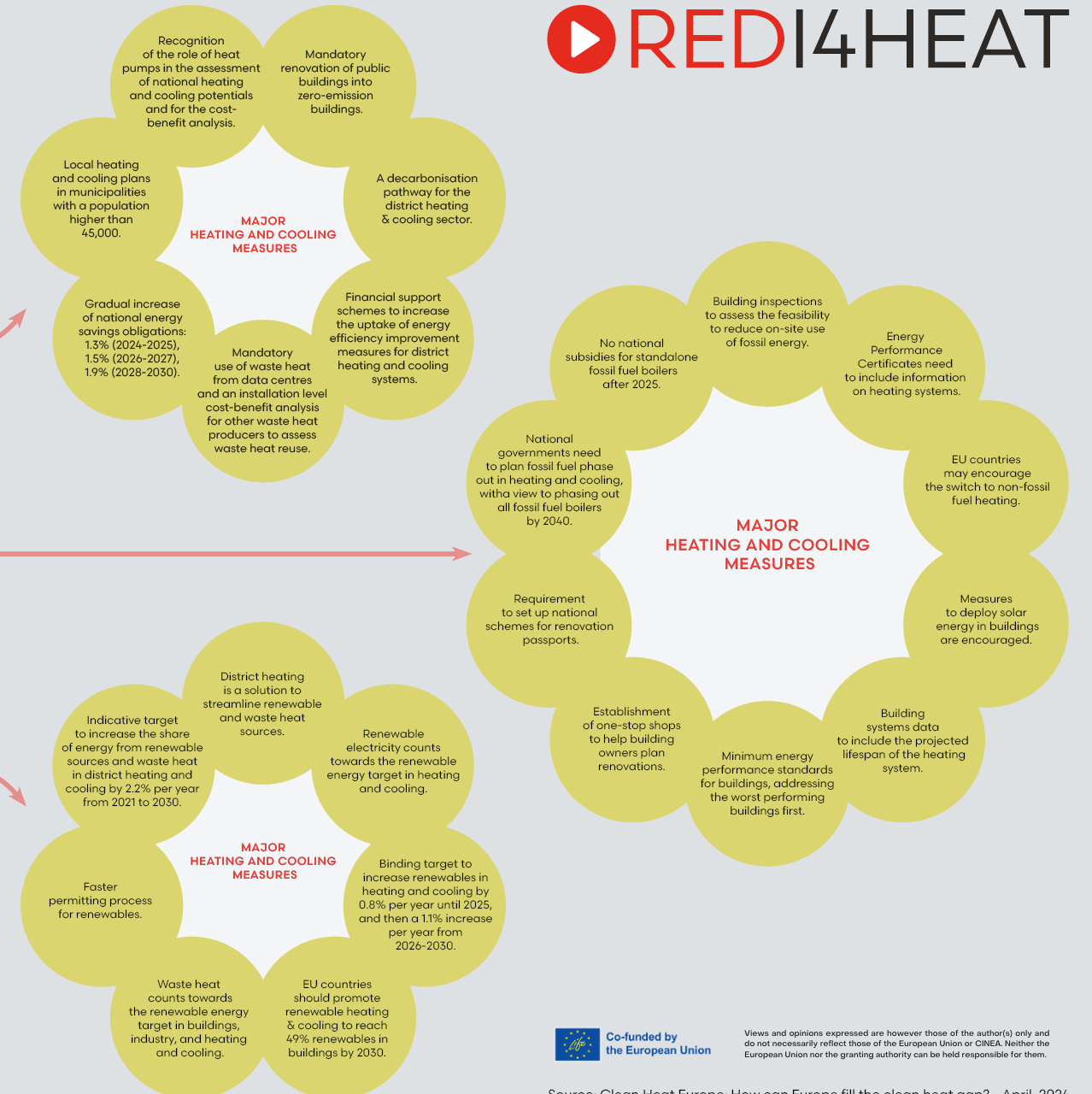
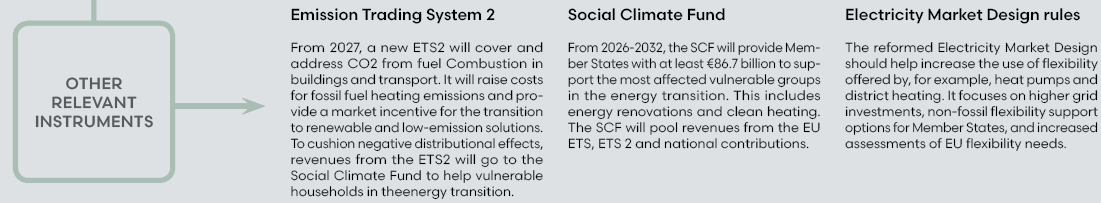
11.7% REDUCTION IN ENERGY CONSUMPTION BY 2030 COMPARED TO 2020.

GENERAL OBJECTIVES

ALL NEW RESIDENTIAL AND NON-RESIDENTIAL BUILDINGS MUST HAVE ZERO ON-SITE EMISSIONS FROM FOSSIL FUELS, AS OF 1 JANUARY 2028 FOR PUBLICLY-OWNED BUILDINGS AND AS OF 1 JANUARY 2030 FOR ALL OTHER NEW BUILDINGS, WITH A POSSIBILITY FOR SPECIFIC EXEMPTIONS.

GENERAL OBJECTIVES

BINDING RENEWABLE ENERGY TARGET OF AT LEAST 42.5% BY 2030, WITH A NON-BINDING INTENTION TO INCREASE IT BY ANOTHER 2.5%.



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Outline

More than 70% of Europe's population lives in cities. Local authorities therefore have a key role to play in decarbonising buildings, which account for 40% of Europe's energy consumption.



Article 25.6 of the EED requires Member States to ensure that local authorities above 45,000 inhabitants draft local heating and cooling planning, and to support them financially and technically.

The analysis of 5 case studies, local plans and national frameworks shows how key this local planning is, but also that its potential is not sufficiently used in most EU countries. The report highlights some good practices in Poznan (Poland), Valencia (Spain), Baden-Württemberg (Germany), Rotterdam (The Netherlands) and Vienna (Austria).

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Deliverable 2.2

High ambition for energy and climate:

- The city is part of the 100 climate-neutral and smart cities in 2030
- The city signed the Covenant of Mayors (SECAP)
- The city's strategy has always focused on "right to energy" and fuel poverty prevention with citizens participation.



Getty Image, Unsplash

Energy Communities as driver:

- Objective of 100 energy communities by 2030
- Electricity and heat (eg heat pumps)

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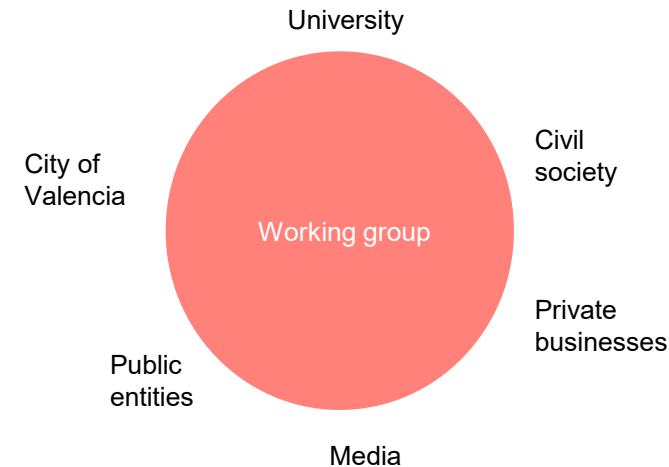
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A co-creation approach at the local level



Results

The successful approach has inspired the political leadership to embed citizens' collaboration in the long term. In this sense, energy communities are a great opportunity, as they involve citizens in the development and ownership of energy-related projects, which contribute to larger goals.

High ambition for energy and climate:

- The Netherlands has committed to reducing by 49% their emissions by 2030
- The Dutch National Climate Agreement of 2019 requires municipalities to develop a gas phase-out strategy
- Rotterdam is complying with the binding requirement of developing a heat transition vision



Jurriaan, Unsplash

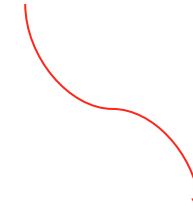
Neighbourhood approach as driver:

- Involvement of stakeholders, including citizens
- Mapping and energy savings



In Rotterdam, the neighborhood analysis has been translated into the construction of a:

- 1/ **“WHAT MAP”** to define the best alternatives with the lowest social costs for existing buildings in each district
- 2/ **“WHEN MAP”** to share when alternatives to gas, and especially district heating, will be available in different neighborhoods.



Many stakeholders were involved in the exploratory studies in the districts and in drawing up the WHEN map; parties from both inside and outside the municipality. This includes housing corporations, network operators, heat providers and district committees that have contributed to the process

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Knowledge Sharing Centre

REDI4HEAT / Knowledge Sharing Centre

More case studies, papers, resources



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.

- Available online: <https://redi4heat.ehpa.org/>
- Free resources and tools

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REDI4HEAT
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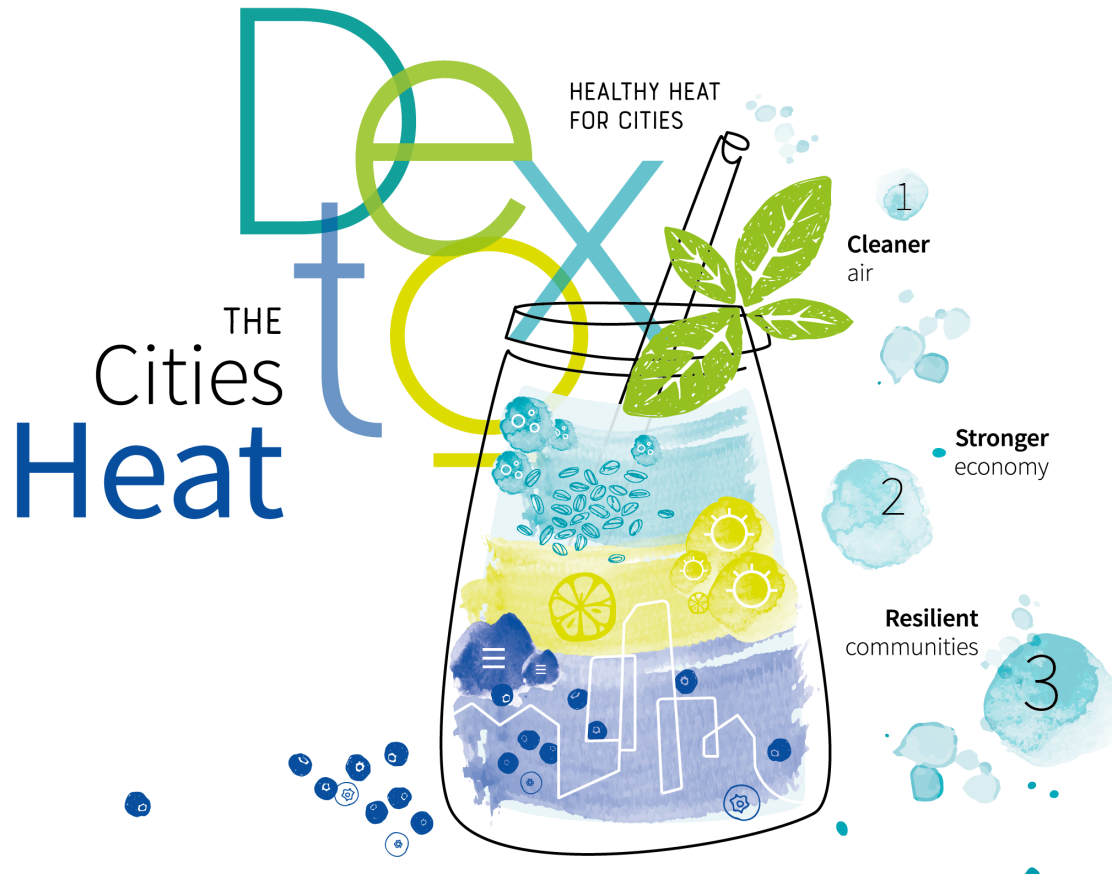
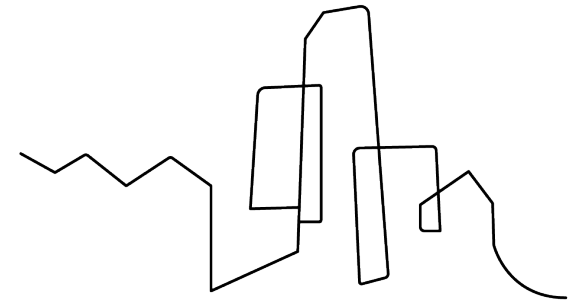
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 RED I4HEAT

WHY

THE
Cities
Heat

Detox



To **improve air quality and health** in cities, especially dense urban areas, protecting your city's environment and citizens' wellbeing.

To support a **more energy-efficient, modern, and circular economy**, creating jobs in a new industry.

To **ensure energy security and a just transition** that combats energy poverty and mitigates climate change's long-term effects on local communities.

STAT OF THE DAY

73.7%
of **PM2.5 emissions**, a deadly particulate matter responsible for more than **200 000 deaths** a year, come from heating and cooling!

#CitiesHeatDetox #HealthyHeat4Cities

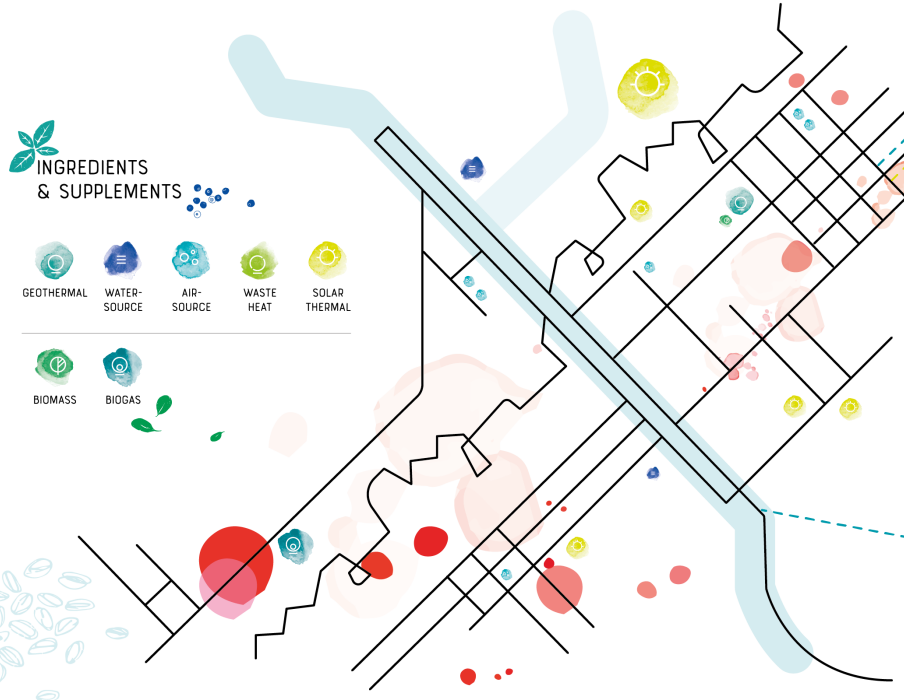
WHAT can cities do to

Detox their heat?

To heat cities, there's no need to burn toxic sources. Cities can detox heat on a large scale by massively shifting towards cleaner, more modern, and sustainable heating systems. Detox your heat in 3 steps:

Step 1 HEAT MAPPING #KnowyourHeat

Step 1. Prepare a heating & cooling plan to identify heat sources, demand and potential alternatives.

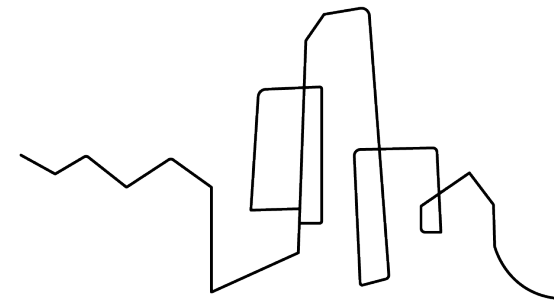


Step 2. For a more impactful detox that reduces heating-related toxins on a large scale, expand, renovate or develop district heating & cooling where possible.

Step 2 DISTRICT HEATING/COOLING #FullCityDetox



WHAT can cities do to **Detox** their heat?



Step 3 CLEAN SOURCES #CleanseYourHeat

Step 3. Rejuvenate your city's heating system by feeding your district heating networks with clean, healthy heat sources that are most adapted to your territory, like geothermal, solar, recovery waste heat or with air and water heat pumps.

Create your city's Heat Detox Mix!

BASE

- DISTRICT HEATING (SPRING WATER)
- DISTRICT COOLING (COCONUT WATER)
- HEAT PUMPS (HONEY WATER)
- COMBO HEAT / COOL PUMPS (HONEY WATER + COOL WATER)

INGREDIENTS

- GEOTHERMAL (MINT)
- WATER-SOURCE (BLUEBERRIES)
- AIR-SOURCE (CHIA SEEDS)
- WASTE HEAT (CUCUMBER)
- SOLAR THERMAL (LEMON)

SUPPLEMENTS

- BIOMASS (KALE)
- BIOGAS (NUTS)

MAKE YOUR OWN HEAT DETOX DRINK!

DISTRICT HEATING & COOLING

Choose your ingredients
IDEAL SOURCES OF HEAT

- GEOTHERMAL (Mint)
- WATER-SOURCE (Blueberries)
- SOLAR THERMAL (Lemon)
- AIR-SOURCE (Chia seeds)
- WASTE HEAT (Cucumber)

Supplements
OTHER SOURCES

- BIOMASS (Kale)
- BIOGAS (Nuts)

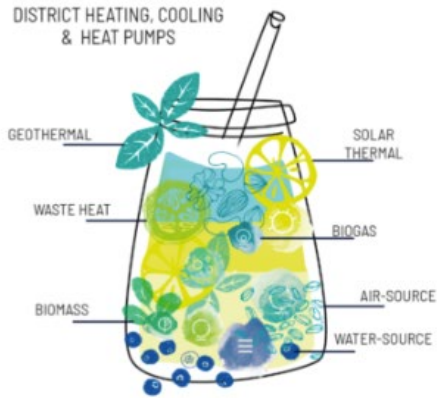
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HOW are cities

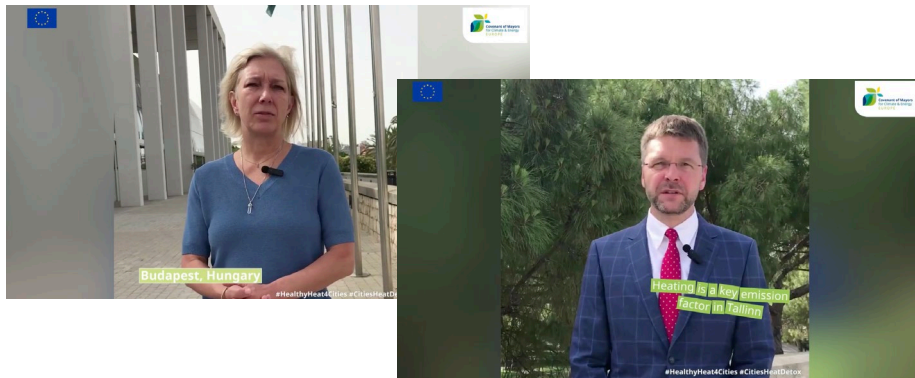
Detoxing their heat?

You're working on your city's heat detox?

Showcase your city's heat detox!



- Applying to the Covenant Award
- Submitting your story
- Showcasing your detox
- Sending a video message



<https://eu-mayors.ec.europa.eu/en/Cities-Heat-Detox-Communication-Package-Cities>

JOIN THE CAMPAIGN

Let's make it loud and clear: Healthy heat in cities means a healthy future for Europe!

SUBSCRIBE

TO THE CAMPAIGN

Receive our regular updates, resources and opportunities to help you in your detox!

GET

INSPIRED

Find inspiration from other cities' detoxes on our Detox map.



Visit the website

<https://eu-mayors.ec.europa.eu/en/The-Cities-Heat-Detox>

Contact us

campaigns@eumayors.eu



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