

# How does the EU foster decarbonisation in the heating & cooling sector?

Euroheat & Power / DHC+ Technology Platform

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The international network for district energy, promoting sustainable heating and cooling in Europe and beyond  
... connecting industry players, decision-makers and academia in a joint effort to drive forward sustainable heating and cooling

## DHC+ Technology Platform

- Supporting their members' successful involvement in EU funded projects
- Sharing research outcomes, participating in projects
- Promoting education and training initiatives in district energy
- Advocating for district energy research & innovation in Europe

# The EU's 2020 Framework

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**20**

**%**

**INCREASE IN  
RENEWABLE  
ENERGY  
SOURCES**



**20**

**%**

**DECREASE IN  
CO<sub>2</sub> EMISSIONS**

**20%**

**DECREASE IN THE CONSUMPTION  
OF PRIMARY ENERGY**

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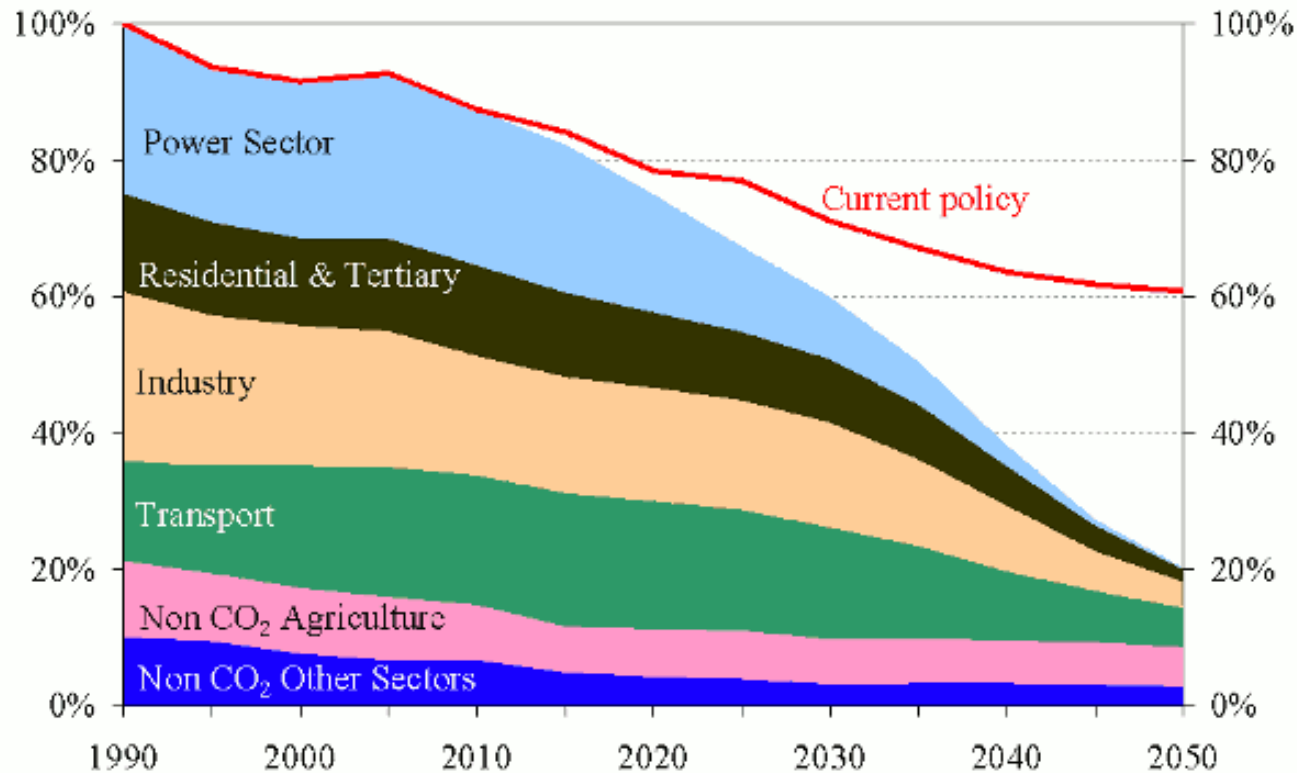


# 2030

**FRAMEWORK**for**CLIMATE&ENERGY**  
#EU2030

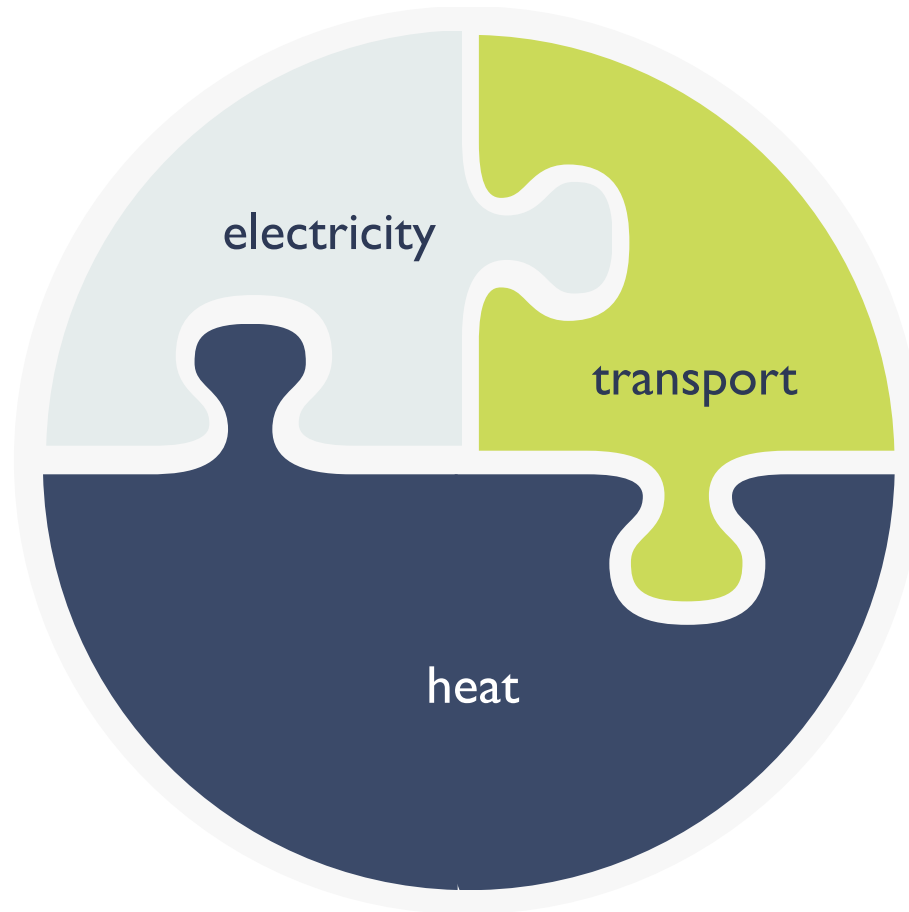
**DHC+**  
TECHNOLOGY PLATFORM

# Horizon 2050: CO<sub>2</sub> Free Europe?



# Heat is the dominant demand

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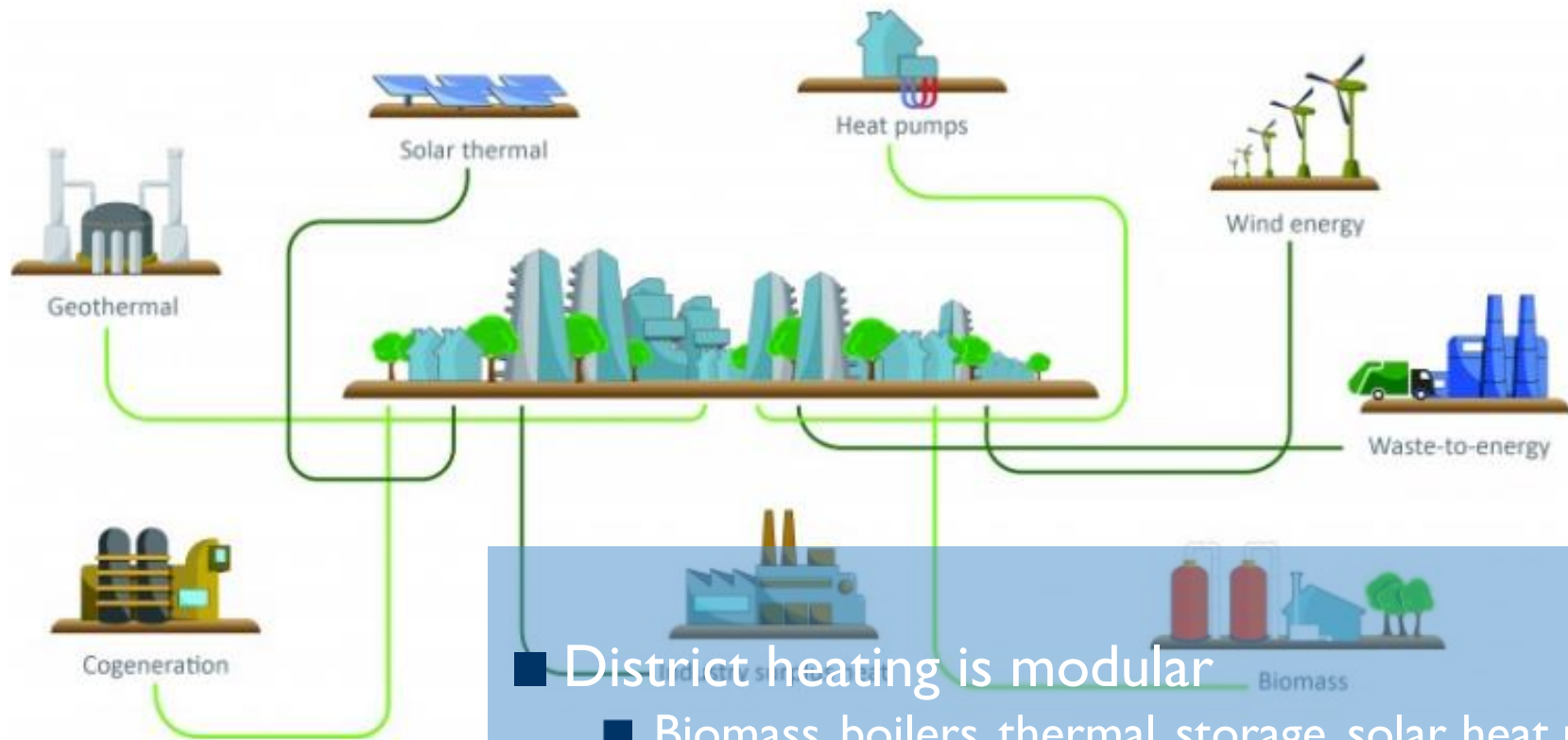
# EU legislation - moving in the right direction

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- Publication of a European Heat Strategy (February, 2016)
  - Clear message that heating and cooling will remain dominant demand
  - A lot of focus on district heating networks
  - Increased interest in promoting use of waste heat
- More supportive EU legislation, new drafts published in 2016
  - Energy Performance of Buildings Directive
  - Renewable Energy Directive
  - Energy Efficiency Directive

Translation into national and local policy will be essential!

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- District heating is modular
  - Biomass, boilers, thermal, storage, solar, heat pumps
- “Cheap” way to decarbonise the energy system



# Cities & densely populated areas are both the problem and the solution

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- 70% of energy demand in cities
- Current reliance on 'obsolete fossil-fuel boilers' is unsustainable
- District heating will have a vital role to play in decarbonising
- A shift to renewables and surplus heat is possible and necessary

Change can be driven by ambitious cities and regions!

# Funding available from EU and national sources

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## Supporting instruments

- EU Regional Policy - structural funds
  - ERDF, Cohesion Fund
  - majority of EU spending!
  - Member states in the driving seat to
- EIB loans, funds and technical assistance
- Research funding: H2020, ERA-NET

... building on best practices & experiences

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Horizon 2020 funded projects



... building on best practices & experiences

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9 background reports

Fine-tuned HRE results => PETA - Pan European Thermal Atlas

Specific Map & Summary Report for each country ([CZ](#), [HR](#), [IT](#), [RO](#), [UK](#); 25-30% of EU H&C demand)

40+ energy efficiency projects in 30 European cities  
Coaching & meetings with national authorities

[stratego-project.eu](http://stratego-project.eu)

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... building on best practices & experiences

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EU research tool that makes energy planning for governments easier

14 EU Member States,  
Covering 85-90% of H&C demand  
Pan-European Thermal Atlas (Peta4)  
Cost analysis and 'hot spots' for DHC networks

[heatroadmap.eu](http://heatroadmap.eu)



Co-funded by the Horizon 2020 programme  
of the European Union



... building on best practices & experiences

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Open-source and easy-to-use simulation tool for local heating & cooling systems

Replaces costly pre-fabricated heating & cooling systems with decarbonising heating & cooling systems

Webinars, workshops, e-learning platform

[planheat.eu](http://planheat.eu)

Twitter: @PlanheatProject

**Target: Involve 50+ cities!**

# Conclusions

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Heating and cooling will remain the biggest demand in 2050

Current reliance on 'obsolete fossil-fuel boilers' is unsustainable

A shift to reliance on RES and surplus heat is possible and necessary

EU policies & funding are there to support decarbonization

Cities will be key! District heating is a natural fit!

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**No energy transition without sustainable cities.**

**No sustainable cities without sustainable heating and cooling.**

**No sustainable heating and cooling without district energy.**

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