



# LIFE CET

## Heating and cooling policy context

European Commission DG Energy

*Madis Laaniste, Matthieu Ballu*

# District heating and cooling in the Energy Efficiency Directive

- Aims at more efficient energy consumption in heat or cold supply, also in district heating
  - RES use
  - Higher energy system integration and waste heat use
  - High-efficiency cogeneration
  - Indirectly facilitating a conversion to low-temperature systems
- Gradual tightening of the definition of efficient district heating and cooling, complemented with an obligation to perform regular analyses to convert DHC systems into efficient ones

# Default definition of efficient district heating and cooling

until 2027 Current definition: at least 50% RES, 50% waste heat, 75% cogenerated heat or combined supply from those sources is at least 50%

from 2028 at least 50% RES, 50% waste heat, 80% of heat from HE CHP or or a system, where 50% of the heat comes from RES, HE CHP and waste heat and minimum share of RES/WH is 5%)

from 2035 at least 50% RES and/or waste heat or a system, where 80% of the heat comes from RES, HE CHP and waste heat and the share of RES and/or waste heat is at least 35%)

from 2040 at least 75% RES and/or waste heat or a system, where 75% of the heat comes from RES, HE CHP and waste heat and the share of RES and/or waste heat is at least 35%)

from 2045 at least 75% RES and/or waste heat

from 2050 all the heat originates from RES and/or waste heat

Art. 24

# Alternative definition of efficient district heating and cooling

until  
2025

Greenhouse Gas Emissions (GHG) per unit of heat or cold delivered to the customers  $\leq$   
200 grams/kWh

from  
2026

GHG  $\leq$  150 grams/kWh

Art. 24

from  
2035

GHG  $\leq$  100 grams/kWh

from  
2045

GHG  $\leq$  50 grams/kWh

from  
2050

GHG  $\leq$  0 grams/kWh

# District heating and cooling in the RE Directive

- Important contribution to decarbonisation: stronger target, requirements for integration with energy system
- Under provisional agreement, new or strengthened requirements:
- Third party access (DHC encouraged to connect suppliers or to offer to connect or purchase RE or waste heat and cold from third party suppliers)
- Member States to strengthen coordination on:
  - Waste heat and cold (DHC operators, WH suppliers, local planning)
  - Electricity grid planning (with TSO/DSO\*)
  - Electricity market participation

\*may be extended to gas

# Importance of heat pumps deployment

- REPowerEU: Independence from Russian fossil fuels by 2030
  - All policy scenarios show a significant uptake of heat pumps in all sectors
  - REPowerEU calls for doubling current deployment rates of building heat pumps: total additional deployment of 10 million hydronic heat pumps over the next 5 years and 30 million by 2030
  - Faster deployment of large district heating and cooling network heat pumps.
- Heat pumps supported across new legislation (renewables targets, products standards and labels, permitting etc)

# Challenges for deployment: skills, certification

- Renewable Energy Directive: new requirements on Member States
  - Set up a framework to ensure sufficient number of trained and qualified installers of RE technologies (including HPs) to achieve targets
  - Ensure availability of training programmes for qualification and certification schemes
  - Take measures to address gap in installers
  - Better information on certification schemes and list of certified installers
- Commission worked with industry on large-scale partnership on RE skills
  - Policy recommendations
  - Involve national authorities, education and training institutions

# Thank you



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