



U.E. DISTRICT

Smart and local reneWable Energy

District **heating** and **cooling**
solutions for sustainable living



22

Partners



9

Countries



4

Demosites



10

Technologies
developed



14.973k

EU funding



Start:
Oct. 2019

End:
March 2023

Context

Heating and cooling of buildings in EU accounts for 50% of total energy consumption.

70% of this energy is generated from fossil fuels.

Objectives

The overall objective of the project is to demonstrate district heating and cooling (DHC) as integrated solutions that exploit the combination of

- renewable energy sources,
- thermal storage and
- waste heat recycling technologies

to satisfy 100% of the heating and cooling energy demand in new DHC and up to 60-100% in retrofitted DHC.

WEDISTRICT solutions will integrate



Solar Thermal Technologies

- Parabolic Trough Collector
- Fresnel
- Low concentration flat collector



Biomass Technologies

- Low emission biomass boiler
- With additional Bag Filter DeNOx Technology



PV-Geothermal System

- Hybrid solar geothermal district heating system



Cooling from Renewable Energy Sources

- Renewable air cooling unit (RACU)
- Advanced absorption chiller



Data Center Waste Heat Recovery

- Recovery of waste heat with fuel cells



Molten Salt Thermal Energy Storage



Advanced Digitalisation



4 demo sites

WEDISTRICT technologies will be implemented in **4 real-scale projects** in Spain, Romania, Poland and Sweden.



Luleå

Excess heat integration in existing District Heating

Kuźnia Raciborska

Non-renewable District Heating retrofitting



Alcalá de Henares

New District Heating and Cooling network



Bucharest

Retrofitting of an inefficient District Heating section

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Community of Interest

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Contact us

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Our Partners

Coordinator:



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