



Smart and local reneWable Energy

District heating and cooling
solutions for sustainable living



22
Partners



9
Countries



3
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
- Tracking concentrator for fixed tilt 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

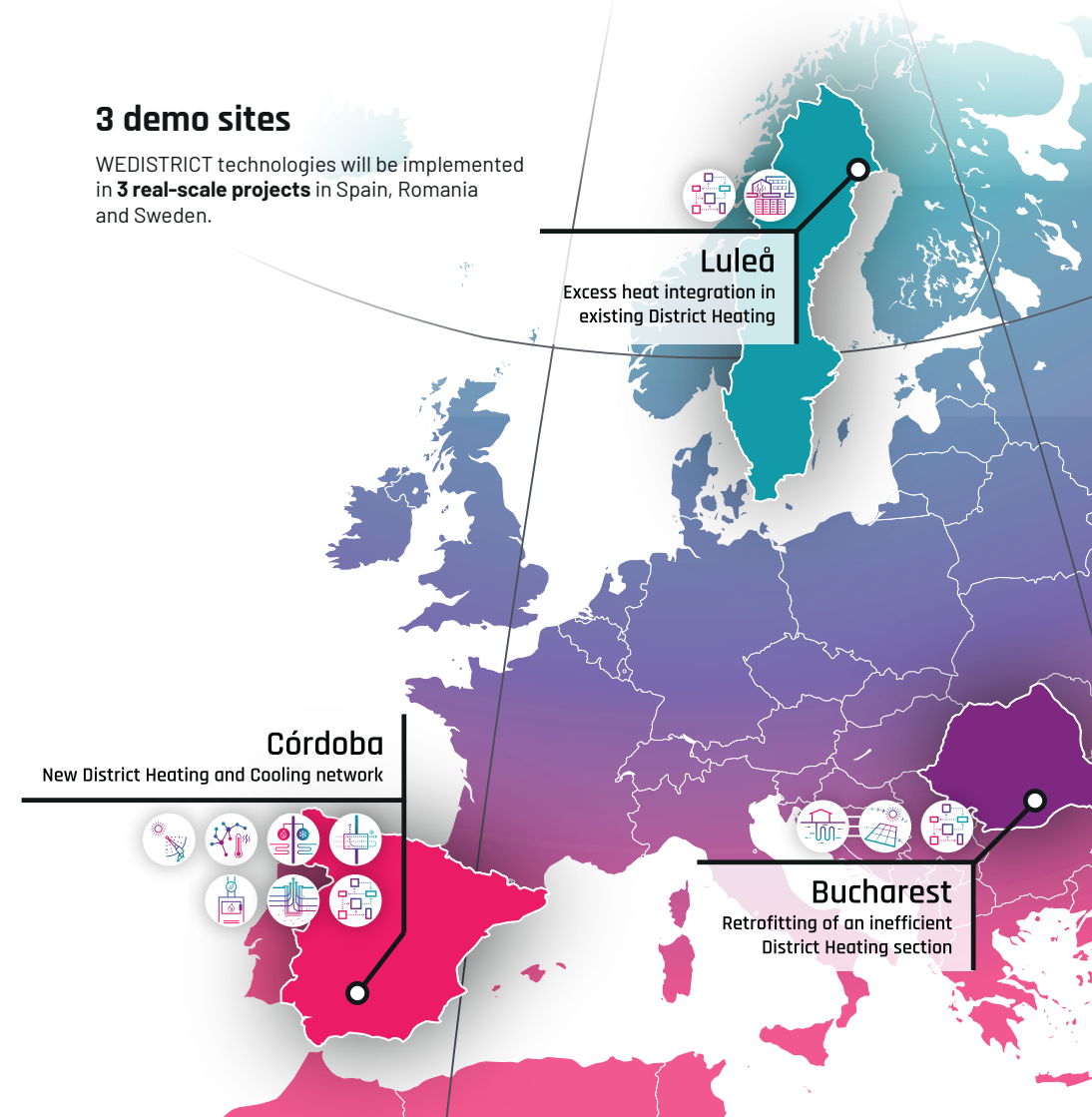
- Recovery of waste heat with fuel cells

Molten Salt Thermal Energy Storage

Advanced Digitalisation

3 demo sites

WEDISTRICT technologies will be implemented in **3 real-scale projects** in Spain, Romania and Sweden.



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Community of Interest

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Contact us

WEDISTRICT Coordinator

Jon Martínez Fontecha
jomartinezfo@acciona.com

www.wedistrict.eu

Our Partners

Coordinator:



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