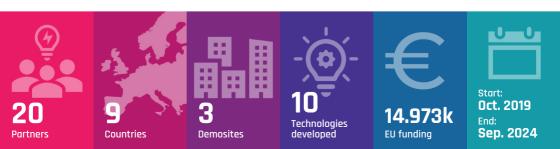


District heating and cooling solutions for sustainable living



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

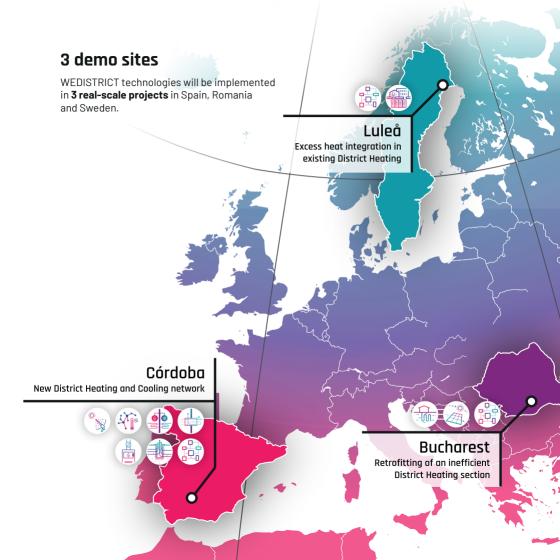
Recovery of waste heat with fuel cells



Molten Salt Thermal **Energy Storage**



Advanced Digitalisation



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