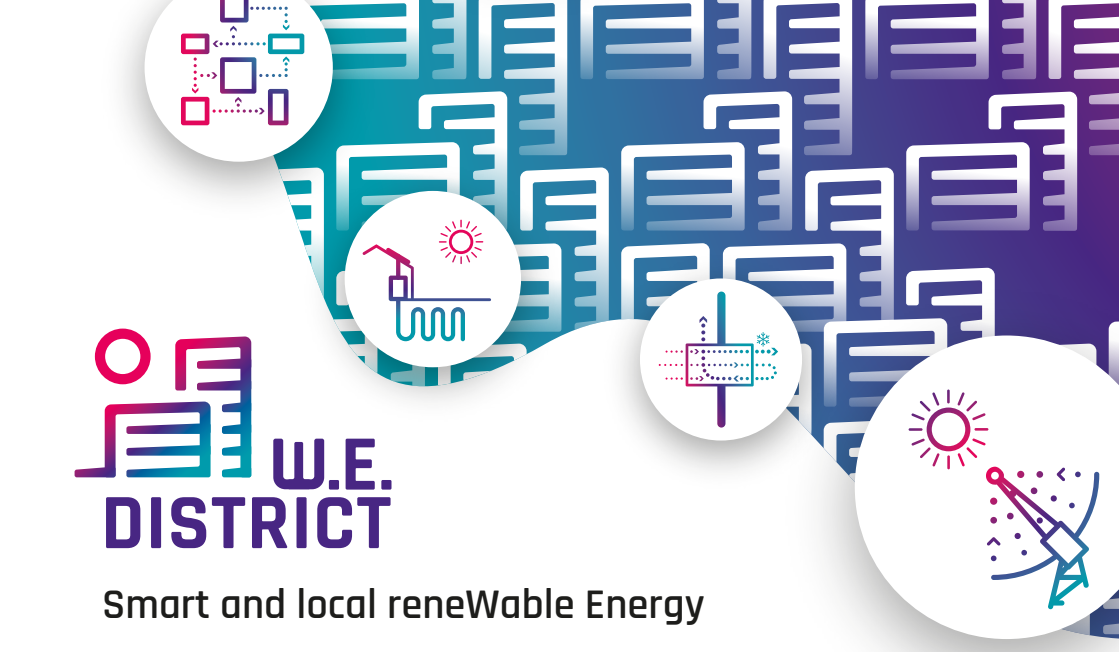


W.E. DISTRICT

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
- 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

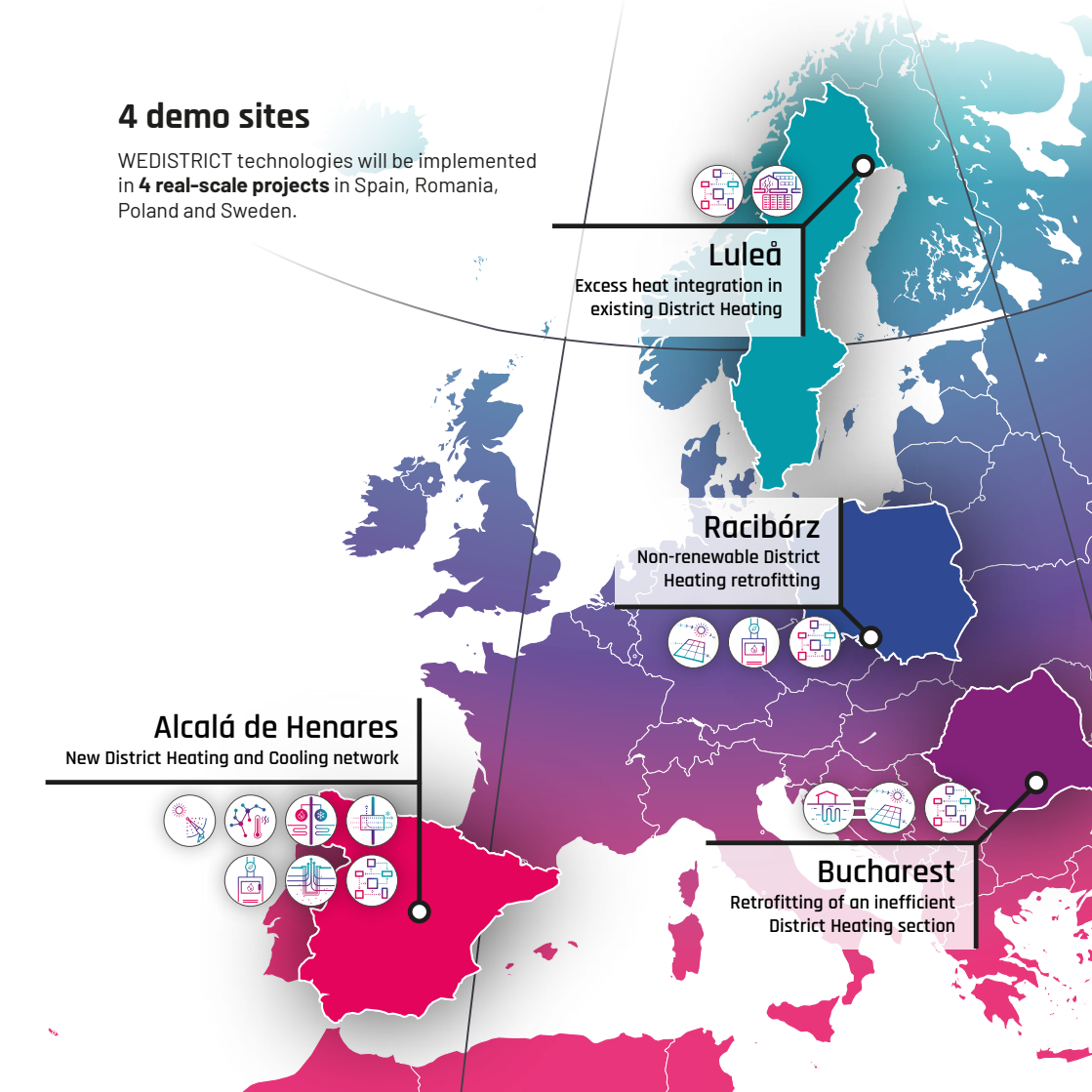
- Recovery of waste heat with fuel cells

Molten Salt Thermal Energy Storage

Advanced Digitalisation

4 demo sites

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



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Become part of our Community of Interest

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Our Partners

Coordinator: acciona

DH eco ENERGÍAS · Atos · RAMBØLL

CEPSA · Politécnica · RISE

IREC Institut de Recerca en Energia de Catalunya Catalonia Institute for Energy Research · ESCI European Science Communication Institute · R2M Research to Market Solution

soltigua · SEENSO · CER

Fertiberia · Universidad de Córdoba · ISPE

AALBORG CSP - Changing Energy · Politécnica · PGNiG | TERMIKA

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