

NETWORKING

INTEGRATED

STRATEGY

URBAN ECOSYSTEM

EFFICIENCY

CITYfied
RepliCable and InnoVaTive
Future Efficient Districts and cities

A replicable, systemic and integrated strategy to transform European cities and urban ecosystems into the Smart Cities of the Future



SYSTEMIC

INNOVATIVE

REPLICABLE

COMMUNITY OF INTEREST

METHODOLOGY

CITYFIED is a pioneering smart city project based on a mix of demonstration, technologies and sound business models. It has developed a replicable, systemic and integrated strategy for sustainably renovating residential districts. The benefits include reduced thermal energy consumption, lower greenhouse gas emissions and greater use of renewable energy.

CITYFIED Community

To ensure outreach, the project team set up a broad community of smart cities and stakeholders both locally and across Europe. 3 demo sites in different countries served as real-life test cases for deep building retrofitting, novel district heating and grid management solutions, all of which have been designed to be sustainable and cost-effective.

CITYFIED attracted 11 European smart cities to encourage replication of these new measures and methods. In addition, 44 other cities have closely followed the interventions at the demo sites for their own benefit.

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CITYFIED is a member
of My Smart City District
and Community



My Smart City District



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3 DEMO CITIES

LAGUNA DE DUERO | Torrelago District

The Torrelago demo site consists of 31 private buildings. The buildings all have 12 floors with 4 dwellings on each. They were built between 1977 and 1981. Retrofitting took place between May 2014 and March 2018, allowing over 4,000 residents to benefit from the project.

Energy Efficiency Measures

- Façade renovation
- New district heating (Biomass)
- New pumping system
- Combined heat and power facility
- Smart grid
- Monitoring platform



31 buildings



1,488 dwellings



Conditioned area
143,025 m²



35.6 %
energy savings



59.4 % renewable
energy sources

LUND | Linero District

Linero is a housing district where two blocks – Eddan and Havamal – consist of 28 three-level council dwellings, built in the early 1970s. The demo site involves approximately 2,000 tenants. Buildings after the retrofitting have an energy performance that resembles new buildings.

Energy Efficiency Measures

- Façade renovation
- District heating (100% renewable)
- Photovoltaic integration
- Smart district heating
- Smart grid
- Monitoring platform



16 buildings



379 dwellings



Conditioned area
40,400 m²



30.8%
energy savings



75.6% renewable
energy sources

SOMA | Manisa Province

The Soma demo district comprises 9,970 m² of gross area with 7,037 m² of conditioned area. Seventeen buildings with 200 dwellings have been energy-efficient retrofitted and some 150 inhabitants have directly benefited directly. The buildings were built in 1982 and the retrofitting took place between 2014 and 2018.

Energy Efficiency Measures

- Façade renovation
- Solar thermal
- Monitoring platform



17 buildings



200 dwellings



Conditioned area
7,037 m²



40.6 %
energy savings



7.7% renewable
energy sources



THE CONSORTIUM

COMMUNITY OF INTEREST

As a demonstration project, CITYFIED needed to encourage replication of its methods, technologies and benefits in other towns and cities beyond the project consortium. To this end, the Community of Interest enabled the project to maximise its project's impact and legacy in the wider community.

CITY CLUSTER

European cities with the highest potential for replicating CITYFIED's retrofitting approach were invited to form a City Cluster to closely follow the project's developments, insights and outcomes.

