

RENEWABLE AND WASTE HEAT RECOVERY FOR COMPETITIVE DISTRICT HEATING AND COOLING NETWORKS



REWARDHeat

The project will integrate the EU top-down energy and climate policy mechanisms with a bottom-up approach to promote the decarbonisation of the local DHC systems. Through this integrated approach and demonstration at 8 demo sites, the solutions developed will be highly replicable across European cities.

REWARDHeat will demonstrate cost-effective solutions for DHC systems, which can satisfy at least 80% of the energy demand of the system with locally-available renewable energy and waste heat sources.



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REWARDHeat aims to exploit energy sources diffused within the urban texture by means of active metering, thermal storage management, network smart control and suitable business models deployment.

To this purpose REWARDHeat will:

- explore alternative configurations of a DHC network to elaborate planning schemes, pre-design tools and recommendations for replication overall.
- demonstrate how prefabricated substations can facilitate the bidirectional heat exchange with the network, both from the technical and investment perspective.
- develop a data mining software tool allowing to manage and analyse monitoring data from installed smart meters.
- elaborate fault detection techniques and predictive control strategies to optimise management of heat fluxes and thermal storage utilisation.
- devise business models adapted to selling “heat as a service” and financing support approaches centered around the new concepts of DHC network.
- develop a Business Game based on planning schemes and replication scenarios, focused on authorities and professionals to help them make decisions when developing new DHC infrastructures.



Demonstration Networks and Partners



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