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OUR PROJECT IN NUMBERS

30
District Heating operators supported

1,500
Trainees

454M
Sustainable Energy Investments triggered

291K
Tons of CO_2 abated

CONTACT US

PROJECT COORDINATOR:

CREARA CONSULTORES SL, Spain

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L2H

Low2HighDH

Developing methodologies for the integration of **low-grade energy** sources into **high-temperature** district **heating networks**

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SUMMARY OF THE PROJECT

Low2HighDH is a 3-year project supporting 30 high temperature district heating sites (HT DHC) in Lithuania, Poland, and Slovakia in the implementation process of low-grade or waste heat technologies, by promoting the advantages of these energy sources and providing them with an investment plan to fulfil the proposed criteria for 'efficient district heating and cooling' from the Energy Efficiency Directive within a 10-year timeframe.

The support to the HT DHC owners/managers includes launching and managing at least 2 requests for proposals (RFQs) to select the key suppliers for the implementation. Low-grade RES technologies to be explored will include at least solar thermal, low-temperature geothermal and heat pumps. The latter will be taken as "the enabling technology" to harness low-grade heat sources as well as to use waste heat. Being electrically driven, heat pumps can use renewable electricity for instance from wind and photovoltaics.

PROJECT IMPACTS

Impact 1: Increased capacity of DHC owners/operators to implement the investments necessary for the integration of low-grade renewable energy or waste heat in high temperature district heating

Impact 2: Demonstration of the technical and financial feasibility and replicability of the transition to the 'efficient district heating and cooling' criteria of high-temperature district heating systems

Impact 3: Improved regulatory framework for DHC allowing fulfilment of the EED criteria

Impact 4: Significant environmental and climate benefits generated as a result of the implementation of the investment plans

EXPECTED RESULTS

TECHNICAL SOLUTIONS

INVESTMENT PLANS

The project will generate and disseminate capacity building materials to be used by other HT DHC sites or stakeholders, including a portfolio of technical and financial solutions that fit with the most abundant situations.

An active engagement, dissemination and replication phase will be enabled by the creation of a wide network of stakeholders across the 3 case study countries and beyond – 3 national stakeholder communities, 30 local liaison groups as well as a project-wide Ambassador community.