



D1.2

Final version of Part C KPI webtool

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More information on the project can be found at: <https://www.low2highdh.eu/>

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Project Summary

Low2HighDH is a project funded by the Programme for Environment and Climate Action (LIFE), aimed at developing methodologies for integrating low-grade energy sources into high-temperature district heating networks. This collaborative initiative brings together 8 partners from 7 European countries, leveraging a wide range of expertise to deliver comprehensive technological and financial solutions for the effective incorporation of low-grade and waste heat sources into operational district heating systems.

Throughout its duration, the project will provide support to 30 high-temperature district heating sites located in Lithuania, Poland, and Slovakia. The primary objective is to facilitate the adoption of low-grade or waste heat technologies by showcasing their benefits and presenting investment plans in line with the "efficient district heating and cooling" standards set by the Energy Efficiency Directive, with a 10-year implementation horizon. As part of this support, the project will assist heating site owners and managers in launching and overseeing at least two requests for proposals (RFQs) to select suppliers for the integration of these technologies.

The project will explore various low-grade renewable energy sources, including solar thermal, low-temperature geothermal, and heat pumps—the latter being a key enabling technology. Since heat pumps are powered by electricity, they can harness renewable energy from sources such as wind and photovoltaics. Additionally, the project will generate and distribute capacity-building materials that can be utilized by other high-temperature district heating sites or relevant stakeholders, ensuring that knowledge and best practices are shared widely.

List of Acronyms and Abbreviations

Abbreviation	Definition
KPI	Key Performance Indicators

Introduction

This deliverable seeks to establish the definitive framework for the project's Key Performance Indicators (KPIs). The initial set of KPIs was outlined during the proposal phase of the Low2HighDH project, where the first calculations and estimations were conducted to provide a preliminary understanding of the metrics that would measure the success and performance of the project.

Since the start of the project, we have gained valuable insights and deeper understanding through several months of practical work and implementation. The purpose of this document is to confirm the KPIs that will be used going forward, ensuring that they are both relevant and accurately reflective of the project's technical and economic objectives.

The KPIs outlined here will serve as the basis for ongoing monitoring throughout the remaining phases of the project, providing a clear and structured means of evaluating performance, efficiency, and impact.

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Table 1. KPIs extraction from LIFE Webtool.

#	KPI	Project End Value	5 Years Beyond the Project End Value
1	Primary Energy Savings (GWh/year)	0	1050
	<i>Primary Energy Savings in Residential Buildings (GWh/year)</i>	<i>0</i>	<i>682.5</i>
	<i>Primary Energy Savings in Industry & Services (GWh/year)</i>	<i>0</i>	<i>367.5</i>
2	Final Energy Savings (GWh/year)	0	945
	<i>Primary Energy Savings in Residential Buildings (GWh/year)</i>	<i>0</i>	<i>614.25</i>
	<i>Primary Energy Savings in Industry & Services (GWh/year)</i>	<i>0</i>	<i>330.75</i>
3	Renewable Energy Generation (GWh/year)	0	945
	<i>Renewable Energy Generation in Residential Buildings (GWh/year)</i>	<i>0</i>	<i>614.25</i>
	<i>Renewable Energy Generation in Industry & Services (GWh/year)</i>	<i>0</i>	<i>330.75</i>
4	GHG Emissions (tCO₂eq/year)	0	291900
	<i>GHG Emissions in Residential Buildings (tCO₂eq/year)</i>	<i>0</i>	<i>189735</i>
	<i>GHG Emissions in Industry & Services (tCO₂eq/year)</i>	<i>0</i>	<i>102165</i>
5	Investment in Sustainable Energy (M€)	0	462.48
	<i>Investment in Sustainable Energy in Residential Buildings (M€)</i>	<i>0</i>	<i>301.00</i>
	<i>Investment in Sustainable Energy in Industry & Services (M€)</i>	<i>0</i>	<i>161.48</i>
6	Legislation & policy (N. Of documents)	48	15
7	Market Introduction (N. Of products/processes/methods)	2	0
8	Implementation Sites (N. Of Sites)	40	20
9	Skills (N. Of People Trained)	40	20
10	Communication (No. Of People)	247	324
11	Employment (No. Of FTE)	0	2312

Conclusions

In conclusion, this deliverable presents the finalized set of Key Performance Indicators (KPIs) that will guide the ongoing evaluation of the Low2HighDH project.

These KPIs will serve as critical benchmarks, allowing us to monitor progress, assess the impact of the project's innovations, and ensure alignment with its overall objectives. As we move forward, these indicators will continue to play a central role in assessing the success and value of the project's outcomes