



**ELENA Project Factsheet**  
**WIEN GEOTHERMAL POWER AND STORAGE**  
**(WIEN GEOPOST)**

<b>Location of planned investments</b>	The Investment Programme will be implemented in Vienna, Austria
<b>Final Beneficiary</b>	Wien Energie GmbH is a limited liability company with its registered office in Vienna. The sole shareholder of Wien Energie GmbH is Wiener Stadtwerke GmbH, which in turn is owned by the City of Vienna.
<b>Final Beneficiary's address</b>	Wien Energie GmbH Thomas-Klestil-Platz 14 1030 Vienna - Austria
<b>Sector(s) of investment</b>	New construction of district heating projects using renewable energy sources
<b>Total Project Development Services (PDS) cost</b>	EUR 2 906 500
<b>ELENA co- financing</b>	EUR 2 615 850
<b>Project Development Services (PDS) financed by ELENA</b>	<p>ELENA PDS will be used by Wien Energie to prepare and implement investments for a seasonal heat energy storage system, in combination with a deep geothermal energy plant (Hydros Seestadt) that will be built and integrated into the existing Vienna District Heating (DH) system.</p> <p>Both investments will be the first of their kind for Wien Energie, but they are vital for Wien Energie decarbonisation strategy. As both investments are pilot and innovative projects. Each of the investment component will have a great impact on district heating system in Vienna, improving the environment and significantly reducing the CO2 emissions in Vienna.</p>
<b>PDS Timeframe</b>	June 2023 to May 2026
<b>Investment programme description</b>	<p>ELENA PDS will support Wien Energie in the preparation of two investment projects for decarbonisation of a district heating system in Vienna.</p> <p>The first project will be the deep geothermal energy plant (Hydros Seestadt). The deep geothermal energy plant will be the first in Vienna. The findings of the project such as those relating to underground productivity, chemical properties of the water and so on will be used for a further field development. The development should result in a total installed capacity of the technology of about 120 MWth by 2030.</p> <p>The second project is the thermal storage project (ScaleUp), further upscaling of the innovative technology used in this project is planned soon after the successful implementation.</p>

	<p>The long-term goal is a broad roll-out of this technology in Vienna and in Austria. Successful exploitation of the project's results and the optimal preparation of the exploitable results for market introduction will also support this goal. The ScaleUp project will solve specific technological questions for the realisation of a large-scale underground tank thermal energy storage (UTTES) in urban areas. UTTES technologies have not yet been implemented in Austria.</p>
<b>Investment amount to be mobilized</b>	EUR 71.5m
<b>Description of the approach to implement the Investment Programme</b>	<p>It is expected that there will be four major tenders for different construction parts. In the further processes of the project, the number of tenders will be defined based on various factors such as market evaluation.</p> <p>In general, Wien Energie will aim at contracting as few subcontractors as possible for the implementation to limit interfaces between them.</p>
<b>Expected results of investments planned</b>	<p>The total estimated contributions are:</p> <ul style="list-style-type: none"> <li>• Renewable Energy – Annual total 193 GWh, of which: 193 GWh RE heat</li> <li>• CO2 reductions – Annual total reductions of 39 016 CO2 eq t</li> </ul>
<b>Leverage factor (Minimum 20)</b>	27
<b>Status</b>	Contract signed on 31/05/2023
<b>Contact person at ELENA beneficiary</b>	<a href="mailto:scaleup@wienenergie.at">scaleup@wienenergie.at</a>