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L2H Low2HighDH

VOL. 2

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

Efficient district heating using Renewable Energy and Waste Heat

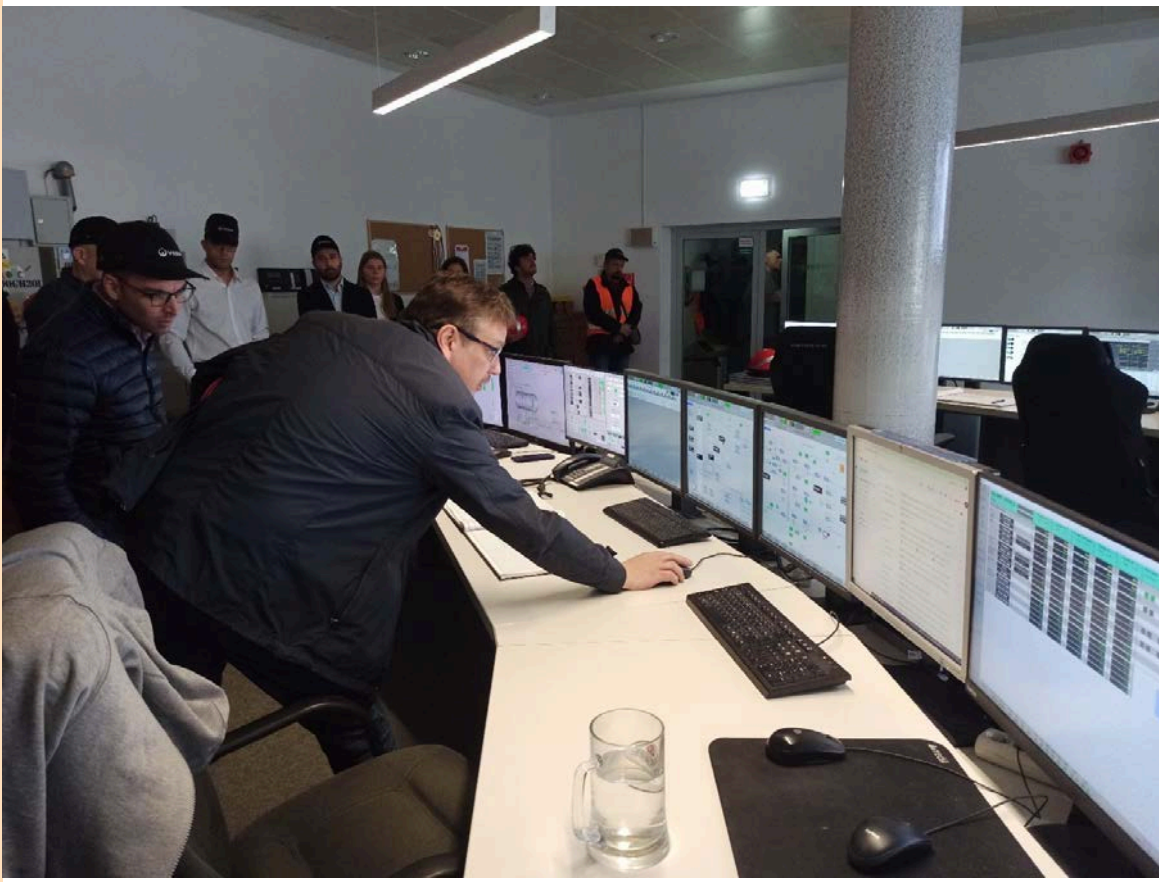
2ND PHYSICAL MANAGEMENT MEETING - SLOVAKIA

Our project recently celebrated the end of its first year and the very active and engaging start of the second year in Slovakia. On the 9th and 10th of October 2024, the project held its 3rd management meeting in the hospitable and cozy Bratislava. Our gracious hosts from the Slovak University of Technology in Bratislava – prof. Ing. Dušan Petráš, PhD. and Ing. Martina Mudrá organized a wonderful event, handling the multifaceted agenda with professionalism and excellence.



The meeting's purpose was to evaluate the progress made during the first year of the project and to set goals for the next period. Also the main focus of the discussions and planning was the Call for Applications aiming to gather applicants from 30 high-temperature district heating sites in Lithuania, Poland, and Slovakia for support in their way of integrating green technologies by receiving comprehensive technical plan, exhaustive financial plan and investment strategy.

The morning of first day started with a field trip – a technical visit to PPC Energy, a.s., where they were welcomed by Ms. Martina Olejníková, who presented to the participants the current state of the centralized heat supply systems (CHP) in Slovakia. Also a presentation was given by Mr. Peter Viskupič, who explained to the team the principle of operation of the steam-gas cycle and guided them around the company's premises. The trip continued with a tour of the central boiler premise D4-40 of Veolia Energia Slovensko, a.s. in Petržalka, led by Mr. Michal Hrebík. He introduced to the team how the gas boilers, cogeneration unit and heat pump, which supply heat and hot water to the residents of this district of Petržalka, work together.





The second day was full of fruitful discussions and presentations of stakeholders interested in the project's scope as well as a shared success story for decarbonization of heating systems in the City of Partizanske, given by Lenka Ilčíková, Priatel'ia Zeme-CEPA.

Also we were privileged to have Low2HighDH's Project Officer Luca Angelino (CINEA) joining the meeting and closely following the project progress.



It was a busy two-day experience, dense with work but also social bonding through sharing delicious food, drinks and stories. Partners left Slovakia motivated looking ahead to the next chapters during the upcoming months.



CURRENT STATUS

THE CALL FOR APPLICATIONS IS STILL OPEN! DECARBONIZE YOUR DH SITE FOR FREE

We're in the exhilarating stage of our project seeking motivated applicants eager to benefit from our project's support. So if you own or manage a DH site, consuming high amounts of coal or gas and you want to implement green technologies, this is an opportunity for you. Successful applicants will receive free expert guidance and tailored solutions to enhance their energy efficiency and transition towards a more sustainable future.



CALL FOR APPLICATIONS

APPLY NOW

As part of our commitment to revolutionizing urban heating systems in Europe, we are excited to share the latest progress of our project in Lithuania, Poland, and Slovakia. With a focus on identifying and empowering the most promising district heating (DH) sites, we have already engaged over 30 applicants, demonstrating the growing momentum and interest in this transformative initiative.

The selection process begins with the interest shown by applicants in joining L2HDH. Through the project's website, they access a survey where we request basic technical, economic, and contextual information about their DH site. This initial data undergoes a preliminary filter based on the project's essential requirements, which all sites must meet to proceed. If a site fails to fulfil these baseline conditions, we promptly inform the applicant that they are not eligible for the process. This approach allows us to focus on and evaluate the sites that truly align with L2H's goals.

In the next stage, applicants are assessed using a set of comprehensive selection criteria that evaluate their capacity across critical areas, including implementation potential, technical expertise, financial stability, and regulatory readiness. These criteria are weighted according to their importance, producing a score out of 10 that reflects each site's overall suitability.

This methodical approach ensures that only the most balanced and capable DH sites are chosen to drive the project forward. By prioritizing quality and precision in the selection process, we are laying the groundwork for a sustainable transformation of urban heating systems across these regions—one that aligns with Europe's ambitious energy and climate goals.

By aligning our efforts with our project's solutions, we are confident in our ability to drive substantial change across urban heating systems. This project is not just a step, but a leap towards an energy-efficient, sustainable future for Europe.

Let's take this journey together, reshaping our cities and paving the way for generations to come.

[Download Brochure](#)

AMBASSADORS COMMUNITY



We are excited to announce that our Ambassadors Community (AC) is still open to welcoming new members from diverse sectors of the energy industry. This Community, comprising distinguished representatives from the DH value chains across the EU, is dedicated to fostering communication, dissemination, and capacity-building activities. As a member, you'll be central to our local activities and play a pivotal role in our call for applications. Join us and be part of this transformative community!

We are proud to already have distinguished members who bring great value to our community!

OUR AMBASSADORS here:

[OUR AMBASSADORS](#)

AMBASSADORS` ACTIVITIES

We are fortunate to have the Covenant of Mayors as part of our Ambassadors Community. Their current campaign, "The Cities Heat Detox," aligns seamlessly with our project's goal to decarbonize district heating! (More about the campaign below.)



Healthy heat in cities means a healthy future for Europe.



The way we heat today, by burning fossil fuels, is detrimental to our environment, our health, and our society. Fossil-fueled heating, representing 72% of buildings' heating in Europe today, contributes to climate change, energy insecurity and deteriorated air quality. There is no doubt: for a healthier and more secure future, our cities need a comprehensive cleansing of toxic heat sources.

Cities have the potential to make a big difference. Through effective heat planning and the expansion of collective solutions like decarbonized district heating, local governments can phase out gas in their heating on a large scale.

Join the movement of European cities detoxifying their heat, opting for a secure and healthy future for all. <https://eu-mayors.ec.europa.eu/en/The-Cities-Heat-Detox>

EVENTS

Welcome to the EVENTS section of our newsletter! Here, you'll find all the latest meetings, conferences and seminars our project partners attended or organized.

Our project partner **KAPE** ([The Polish National Energy Conservation Agency](#)) celebrated their 30th birthday and for the celebration they had organized a conference in Warsaw, entitled "Energy transformation - challenges, opportunities and prospects". Among the currently discussed topics in Poland, the energy transformation is one of the most important. Its success depends on good cooperation between the government, business, local authorities and NGOs. The conference was a good opportunity to talk to representatives of those groups, actively involved in the energy transformation, exchange opinions on best practices and establish contacts between stakeholders.



Our Slovak partner – **STUBA** ([Slovenská technická univerzita v Bratislave](#)) participated in a number of conferences and lectures.

Seminar Heat Exchangers and Heat Transfer Stations

Prípade, že Vás naša ponuka zaujala
ajte nás kontaktovať osobne, alebo na:

martina.mudra@stuba.sk

dušan.petráš@stuba.sk



**“International project Low2High District Heating”
presentation, by Professor Dušan Petráš.**

The seminar "Heat Exchangers and Heat Transfer Stations" (Výmenníky tepla a odovzdávacie stanice tepla), held in Bratislava in September 2024 was organized to inform the audience of professionals about the construction and design of modern heat recovery exchangers and applications of heat transfer stations provided by companies operating on the Slovak market. The seminar was intended for designers, energy engineers, operators, investors, as well as representatives of housing companies and communities. The lecture entitled "International project Low2High District Heating" was given by Professor Dušan Petráš where he also presented the currently opened Call for Applications (CfA).

STUBA also presented the project at the OBNOVITEL'NÉ ZDROJE ENERGIE 2024 (RENEWABLE ENERGY SOURCES 2024) organized in High Tatras, Slovakia in May, 2024.



The main topic of the 22nd edition of the conference with foreign participation OBNOVITELNÉ ZDROJE ENERGIE 2024 (RENEWABLE ENERGY SOURCES 2024) was "Application of RES in implementing the targets of the Green Deal ". The conference programme was divided into 5 sessions focusing on Legislation in the field of RES, Solar Energy, Biomass, Heat Pumps, and Geothermal Energy. The conference was attended by 118 participants. The conference was intended for target stakeholders such as designers, energy engineers, auditors, operators of district heating systems, manufacturers and sellers of renewable energy equipment and technologies, as well as representatives of state and public administration, science and research, education, and the public.

The lecture entitled "Project Low2HighDH - Transformation of District Heating Systems with the Support of Renewable Energy Sources" was given by Martina Mudrá. During the lecture, the main topic of the project and the key objectives, the content of the work packages, the results of a short online survey focused on the integration of renewable energy sources into district heating sources, and project partners from Poland, Lithuania, Spain, Italy, Bulgaria, and Slovakia were presented. The participants were also introduced to the project's website and LinkedIn profile. The conference proceedings include an article about the project.

During summer this year the Lithuanian partner LEI (Lithuanian Energy Institute) participated in the 20th CYSENI conference. The participants of the conference were able not only to deliver their presentations, but also to communicate with each other, to establish acquaintances and connections, to discuss the presented initiatives. The conference was attended by 150 participants from 12 countries, and 7 presentations of guest lecturers were presented.

CYSENI is an annual event for young scientists and professionals from Europe and around the world working in the fields of energy and environmental sciences. CYSENI's goal is to help young scientists present their latest research and build long-term scientific connections.



OUR CLUSTER of sister project – DH SYNERGY HUB

The DH Synergy Hub is a collaborative initiative among (currently) four innovative projects dedicated to integrating low-grade renewable energy and waste heat into high-temperature district heating systems, with a shared commitment to decarbonizing the district heating industry across Europe. The projects, namely SET HEAT, Support DHC, HeatMineDH, and Low2HighDH are funded by the LIFE-2022-CET-DH call.



Through the DH Synergy Hub, we aim to ignite enthusiasm within the district heating community, promoting energy transition and sharing the latest advancements in the decarbonization of district heating systems. The Hub serves as a dynamic platform for exchanging experiences, identifying opportunities, and addressing challenges related to strategic planning. We firmly believe that by working together, we can achieve the ambitious goals of our projects and transform district heating networks across Europe. As a subscriber, you will receive regular updates on the latest results and studies produced by our consortium partners, along with insightful reports and information on relevant future events—all in one convenient place. Our community is ever-evolving, and we plan to broaden our collaboration with more projects in the future.

Thank you for joining us on this journey towards a sustainable and energy-efficient future!



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