Events, webinars, conferences

Deliverable Number 6.3

Date: 11/12/2025

Author: Marlene Simonini, EGEC

GeoBOOST

Co-funded by the European Union

Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

Table of contents

Introduction

This deliverable provides an overview of the dissemination events, national conferences, and EU-level annual conferences organised under the GeoBOOST project. Activities include national dissemination events in participating countries and three annual European conferences coordinated by EGEC.

The national events aim to promote geothermal knowledge, engage stakeholders, and disseminate GeoBOOST results at local and regional levels. The EU-level conferences ensure visibility, knowledge transfer, and cross-border cooperation.

GeoENERGIE Day

Short summary:

On June 15, 2023, geoENERGIE Day opened with discussions on advancing geothermal energy in Saxony and beyond. Sessions covered political and regulatory frameworks, industry associations' roles, and technical developments in geothermal drilling and training. Panel discussions focused on strategies for market ramp-up, collaboration, and integrating policy with technology. Highlights included insights from projects such as GeoBoost, the importance of workforce education, and data collection practices for installed systems. The event emphasized that streamlined regulations, stronger cooperation, and continued innovation are key to accelerating geothermal energy deployment.

Date: 15 June 2023 Location: Freiberg, Germany Organizers: GeoEnergie Konzept Target Audience: Building stakeholders

Promotional Campaign

- Website: http://www.geothermal-days.eu/, https://www.egec.org/events/geothermal-heat-pump-days-2023/ and https://gogeothermal.eu/projects/geoboost/
- Social Media: social media posts were published on the EGEC accounts (Twitter and LinkedIn) to promote the event.
- Newsletter: the event was promoted to the EGEC geothermal audience (+5000 subscribers) and the EGEC members through the roundup, flash news and the Geoboost E-news.

Discussed Topics:

On the morning of June 15, 2023, Rüdiger Grimm, Managing Director of geoENERGIE Konzept GmbH and initiator of geoENERGIE Day, officially opened the event.

The first session, "Politics & Associations," featured Dr. Gerd Lippold, Saxony's State Secretary for Energy, Climate Protection, Environment and Agriculture, who shared valuable insights on Saxony's geothermal potential, the role of political influence, and the promotion of uniform framework conditions and simplified procedures. His presentation sparked a lively panel discussion, for which we would like to extend special thanks for the stimulating exchange.

Dr. André Deinhardt from the German Geothermal Association rounded off the session by highlighting the association's work and its critical role in advancing geothermal energy. He also addressed the market potential, industry agility, and the importance of interdisciplinary research and development in this promising sector.

In the market ramp-up segment, Dipl.-Ing. Melanie Campbell, Managing Director of Bau-ABC Rostrup, provided valuable insights into the current state of training in geothermal energy. Prof. Dr. Simone Walker-Hertkorn, Managing Director of tewag Technologie – Erdwärmeanlagen – Umweltschutz GmbH, discussed technical aspects of geothermal drilling, including minimum drilling diameters, requirements for annular space backfill, and presented the latest edition of working aids in geothermal energy.

The morning lectures were followed by an interactive panel discussion moderated by Elena Hetzel (ENGIE/Storengy), focusing on the key question: "How can we organize the ramp-up of geothermal energy in the market?" Panelists, including Dr. Gerd Lippold, Dipl.-Ing. B.Sc. Stefan Schwan, Dipl.-Ing. Melanie Campbell, Univ.-Prof. Dr. habil. Inga S. Moeck, and Dipl.-Geol. Rüdiger Grimm, engaged in a dynamic exchange with the specialist audience.

After lunch, Dipl.-Ing. B.Sc. Stefan Schwan (ENGIE Deutschland GmbH) presented on "Energy Quo Vadis – Sustainability at Any Price?", followed by insights from Christian Lumm and M.Sc. Tom Reinhardt (geoENERGIE Konzept GmbH) on ambitious projects, including GeoBoost, covering processes, tasks, collaborations, and practical challenges in construction projects.

The event concluded with key takeaways emphasizing that advancing geothermal energy requires stronger collaboration, simplified regulations, and expanded education to address workforce shortages. Participants also highlighted the importance of data collection for installed systems and the integration of technology and policy to overcome sector challenges. Presentations included the Erdwärmebarometer, reporting Austrian trends, market values, legal frameworks, and the interaction of geothermal solutions with air-based systems, which sparked further discussion on market development and deployment strategies.

Polish HP Congress 2023

Short summary:

The PORT PC Congress was the meeting center of the Polish heat pump industry for years, but this year it had a special significance. This was a landmark moment in the development of heat pump technology - due to the role it has been assigned in the accelerated energy transition, the decoupling of EU countries' economies from fossil fuel imports and the development of a European carbon-free industry.

Date: 21 June 2023 Location: Kraków, Poland Organizers: UPV Target Audience: decision makers, policy makers, manufacturers, installers, designers, municipalities, EHPA representatives, RAP representatives

Discussed Topics:

The implementation of the REPowerEU plan, which the European Commission announced in May 2023, calls for the installation of a huge number of additional heat pumps in EU countries in the coming years: by 2027. - 10 million, and by 2030. - another 30 million, not counting replacement heat pumps. Together with the 20 million currently in operation, this should give us as many as 60 million installed heat pumps in 2030. This is a huge challenge, but also a unique opportunity for Polish entrepreneurs as well.

During the congress current status and highlights of the GeoBoost project were presented.

Geothermal District Heating and Cooling Days 2023

Short Summary:

The event opened with an international workshop on business and financing models for geothermal heating and cooling networks. The second session highlighted the growing success of geothermal district heating and cooling in Europe, with over 400 operational geoDH plants and 300 projects under development. EU funding visibility was ensured through the presentation of the LIFE-funded GeoBoost project.

The programme featured expert presentations on future geothermal heat systems, funding schemes, business models, risk mitigation, and geothermal industrialisation. An interactive workshop explored financing and business models, technology and data, and regulatory and social acceptance challenges. The event concluded with a plenary session summarising group discussion outcomes.

Promotional Campaign

- Website: http://www.geothermal-days.eu/, https://www.egec.org/events/geothermal-heat-pump-days-2023/ and https://gogeothermal.eu/projects/geoboost/

- Social Media: social media posts were published on the EGEC accounts (Twitter and LinkedIn) to promote the event.
- Newsletter: the event was promoted to the EGEC geothermal audience (+5000 subscribers) and the EGEC members through the roundup, flash news and the Geoboost E-news.

Date: 19-21 September 2023 Location: Aarhus, Denmark Organizers: EGEC Target Audience: Building stakeholders

Agenda:

13:10 - Session 1: Knowledge transfer Geothermal heat for district heating in the future energy system - Peter Sorknæs, Aalborg University (Denmark)*

Networked Heat Pump District Heating - Matthew Trewhella, CEO, Kensa Group (United Kingdom)*

Review of public and private funding schemes (first findings from the EU project SAPHEA) - Giulia Conforto (e-think, Austria)

Business models for low temperature heating and cooling networks in Austria - David Bauernfeind (Beyond Carbon Energy, Austria) - online

Georisk – Pathways for developing risk mitigation schemes for deep geothermal use - Philippe Dumas (EGEC, Belgium)

Industrializing Geothermal District Heating Across Europe - Søren Berg Lorenzen (Innargi A/S, Denmark)

The Climate Bond Initiative approach to Geothermal Projects - Gabriela Constantin (Climate Bond Initiative)

Co-creating sustainable DHC systems - moving towards a collaborative governance

15:20 - Session 2: Interactive Workshop

▪ Table 1: Financing, desrisiking and Business Models (chaired by Philippe Dumas & Christian Preuthun Pederson, VIA University College)

▪ Table 2: Data availability and Technologies (chaired by Stefan Hoyer, GeoSphere Austria & Saqib Javed, Lund University)

▪ Table 3: Regulatory, Acceptance and values (chaired by Johanna Ayrault & Gregor Goetzl)

17:20 – Closing plenary

Outcomes of the group discussions Table owners

Concluding plenary discussion - All participants

Discussed topics:

The conference focused on securing the financing of renewable-based heat networks, considered riskier by investors.

It showcased a selection of district heating geothermal projects that have achieved remarkable results, sharing valuable lessons learned and providing general guidelines to inspire and guide future developers. Furthermore, speakers presented thriving business models that have demonstrated exceptional effectiveness in the geothermal sector and discussed how to provide heat to the industry and sell your heating/cooling to clients.

Geoconference 2023

Short Summary: The conference covered a wide range of topics related to geothermal energy and ground-source heating technologies, including innovations in borehole heat exchanger design, geothermal market developments in Poland and Europe, thermal conductivity research, geoenergetic utilisation of low-temperature heat, and national strategies for geothermal resource development. Participants also explored advancements in drilling equipment, geothermal system components, laboratory expansions, and research initiatives from universities across Europe.

Date: 20-22 September 2023 Location: Kraków, Poland Organiser: UPV Type of event: Conference Target Audience: decision makers, policy makers, geologists, manufacturers, installers, drilling companies, designers, municipalities

Agenda:

- New type of borehole heat exchanger design
- POLNOR Project in University of Stavanger
- Development of the ground source heat pump market in Poland and Europe - current status and prospects
- Co-recovery of heat and raw materials from geothermal systems
- Influence of thermal conductivity of hardened sealing slurries on the thermal resistance of borehole heat exchangers of different designs
- Composite GRP pipes for the transmission of water geothermal
- The role and technical qualification criteria for geothermal in the taxonomy of environmentally sustainable activities of the european union
- Expansion of the Laboratory of Geoenergetics - horizontal (horizontal) borehole heat exchanger, geothermal doublet and borehole heat exchangers with direct evaporation of the working medium
- Gravity and pressure borehole energy storage at the AGH in Cracow

- Possibilities of geoenergetic utilization of low-temperature heat
- Determination of the start time of the test thermal response
- Development of the use of geothermal resources in Poland - current status and activities of the Ministry of Climate and Environment
- Development directions in the construction of modern drilling equipment for hydrogeological geothermal drilling and geotechnical
- Geothermal Energy Research at VSB Technical University of Ostrava and Vaasa University.

Geothermal Heat Pump Days 2023

Short Summary:

The European Geothermal Heat Pump Days 2023, held in Berlin, Germany, brought together approximately 100 stakeholders from across Europe, fostering a dynamic platform for collaborative discussions, valuable insights, and networking opportunities within the geothermal energy community. The event showcased groundbreaking presentations and highlighted the latest developments in geothermal heating and cooling technologies. On Friday, 17 November 2023, Geoboost project was presented there. This event provided us with the experience to establish a clear timeline and communication channel with the speaker, as well as allocating specific responsibilities for coordinating dissemination efforts.

Promotional Campaign

- Website: http://www.geothermal-days.eu/, https://www.egec.org/events/geothermal-heat-pump-days-2023/ and https://gogeothermal.eu/projects/geoboost/
- Social Media: social media posts were published on the EGEC accounts (Twitter and LinkedIn) to promote the event.
- Newsletter: the event was promoted to the EGEC geothermal audience (+5000 subscribers) and the EGEC members through the roundup, flash news and the Geoboost E-news.

Date: 16-17 November 2023 Location: Berlin, Germany Organizers: EGEC Target Audience: Building stakeholders, manufactures, municipalities, installers, other

Agenda:

"Day 1 – Thursday, November 16, 2023
Session 1: Keynote addresses – moderator: BvG, Andre Deinhart
10:10 – 10:30: Berlin Senate - Permanent Secretary for Climate Protection and the Environment, Britta Behrendt
10:30 – 10:50: The EU heat Pump Action Plan, EC- DG Energy, REZESSY Silvia;
10:50 – 11:05: Market & Competitiveness of geothermal HP, EGEC, Philippe Dumas
11:05 – 11:20: Corab Heat Pumps - evolution in business, revolution in technology! CORAB, Filip Odrobiński,
Session 2: Challenges to the deployment – moderator: EGEC, Philippe Dumas
11:50 – 12:10: Inputs talk:
Challenges in supply chain for geothermal energy in Europe case of France- Celsius energy, Giovanni Sosio;
12:10 – 12:45: Panel discussion: The expected and possible future role of geothermal HP by 2030 : Celsius energy,
Giovanni Sosio; Rototec - Johnny Lonnroth, Muovitech - Adib Kalantar.
Session 3: helicopter presentation (1 minute without slide) of the posters
14:00 – 15:40 Session 4: Afternoon session part 1 – Innovative and good practice of geothermal HP across Europe. – Moderator: Geoenergie Konzept, Konstanze Zschoke
Arianna Passamonti: Geothermal high-temperature heat pump demonstrator: from planning to testing a 500 kW system coupled with mine thermal energy storage;
Nitu George Bogdan: Thermal storage ATES in combination with waste water
Valerio Silvestri: Uni-directional ATES in high ambient groundwater flow aquifers;
Niklas Kracht Feasibility study of an innovative drilling method for inclined medium-deep borehole heat exchangers in a 5th generation district heating concept;
Holger Born / Michael Krause / Finn Weiland: UrbanGroundHeat - Heat transition in existing urban neighbourhoods through shallow geothermal energy in combination with solar thermal energy;
Giovanni Sosio: Improved geothermal battery performance from inclined borehole heat exchangers: case studies from Europe.
16:05 – 17:20 Session 5: 'Removing barriers for geothermal heating' – moderator: EGEC, Philippe Dumas
16:05 – 16:20 Overview of Support schemes available for geoHP; EGEC, Emil Martini
16:20 – 16:35 development of Polish HP market in last years, its barriers, opportunities and threads, portPC - Jakub Koczorowski;
16:35 – 16:50 ITGBES design tool for Ground Source Heat Pump (GSHP) systems, Groenholland - Guus van Gelder;
16:50 – 17:20 Panel discussion on skills for geothermal HP deployment.

Day 2 – Friday, November 17, 2023
9:00 - 10:15. Session 1: 'Removing barriers for geothermal cooling' – moderator: EGEC, Emil Martini

9:00 – 9:05 Introduction; EGEC, Emil Martini
9:05 – 9:20 Trends in cooling technologies, Fraunhofer - Reuven Paitazoglou,
9:20 – 9:35 Assessing the future growth of cooling demand, RED – Luc Pockelé
9:35 – 9:50 Guidelines for the integration of GSHP systems to historical buildings, Geoserv - Riccardo Pasquali;
9:50 – 10:05 Case study of cooling in Valencia – UPV, Javier Urchueguia;
10:35 - 12:00. Session 2 – Innovative and good practice of geothermal HP across Europe. Moderator: Geoenergie Konzept, Konstanze Zschoke
Sara Bordignon: Simplified water-source heat pump models for predicting heat extraction and rejection;
Fabio Poletto: Development of Innovative Ground-Source Heat Pumps in the context of European projects;
Hesham Selim, and Thomas Wicht: Efficient CO2-based anergy networks using geothermal energy;
Mohsen Assadi / Fredik Skaug Fadnes: University of Stavanger's Approach to Geothermal Heat Pump System Development;
Aki Saukoniemi: Hybrid borefields enabling ground source heat pump systems for large buildings on limited property lots;
Marlon Brancher: Spatio-temporal development of geothermal heat pumps over Austria;
Borja Badenes: A new decision support system to promote innovative modular geothermal solutions for Civil and Historical buildings
Vladimir Soldo: Advancement in shallow geothermal heat pump technology: 15 years of research at the University of Zagreb.

Discussed topics: The first session of the workshop focuses on inspiring talks, which look on business and financing challenges as well as opportunities for geothermal energy supplied heating and cooling networks from various perspectives. The talks will address 'conventional' direct geothermal energy use as well as 'low temperature heating and cooling networks'.
The second day focused on removing barriers to geothermal cooling, exploring trends in cooling technologies, assessing future growth in cooling demand, and providing guidelines for integrating GSHP systems into historic buildings. The day continued with a session on innovative practices, covering topics such as simplified water-source heat pump models, the development of innovative GSHPs, the efficiency of CO2-based energy networks, the use of hybrid bore fields, spatio-temporal developments in Austria, the promotion of innovative modular geothermal solutions, and the University of Stavanger's approach to geothermal heat pump system development".

Geothermie Symposium 2023

Short Summary:

The Geothermie Symposium 2023, held in Geinberg, Austria, brought together approximately 100 participants from Austria and Germany, fostering a dynamic platform for collaborative discussions, valuable insights, and networking opportunities within the geothermal energy community. The event showcased ground-breaking presentations and highlighted the latest geothermal heating and cooling technologies developments in Austria and Germany. EU funding visibility was ensured by presenting the Geoboost project as financed by the EU under the umbrella of the LIFE Programme.

Promotional Campaign

- Social Media: social media posts were published on the EGEC accounts (Twitter and LinkedIn) to promote the event.
- Newsletter: the event was promoted to the EGEC geothermal audience (+5000 subscribers) and the EGEC members through the roundup, flash news and the Geoboost E-news.

Date: 22–24 November 2023 Location: Geinberg, Austria Organiser: GTÖ Type of Event: Conference Target Audience: Building stakeholders, manufacturers, broader geothermal community

Agenda:

Wednesday, November 22, 2023

- 10:00 AM to 12:00 PM: General Assembly of the Geothermal Association of Austria (GTÖ members)
- 1:00 PM to 5:00 PM: Geothermal Symposium 2023 "Geothermal Energy - Boundless Thinking" (Day 1)
- From 7:00 PM: Joint Evening Program

Thursday, November 23, 2023

- 9:00 AM to 5:00 PM: Geothermal Symposium 2023 "Geothermal Energy - Boundless Thinking" (Day 2)
- 5:00 PM to 6:00 PM: Visit to the Geothermal Plant at Therme Geinberg
- From 7:30 PM: Joint Evening Program

Friday, November 24, 2023

9:00 AM to approx. 4:00 PM: Cross-border Geothermal Excursion

Discussed Topics:

The symposium featured current research projects and initiatives across the entire spectrum of geothermal applications, with a specific focus on the Austria–Germany border region. In line with the theme "Boundless," contributions from fields beyond geosciences, such as system integration and public acceptance, were also presented.

Stakeholder meeting about geothermal heat pump installations in Burgenland

Short Summary:

The meeting took place at GeoSphere Austria, Neulinggasse and covered a presentation of the project results of GeoBOOST regarding Burgenland. An expansion of the data sets has been discussed.

Date: 12 December 2023
Location: Vienna, Austria
Organizers: GeoSphere Austria
Type of Event Meeting
Target Audience: Municipalities

Discussed topics:

Presentation of GeoBOOST results and joint discussion with representatives from the municipal departments of energy about the possibilities to enlarge the data collection of existing geothermal heat pumps in Burgenland. The stakeholders expressed a big interest in these data sets and supported an expansion of the data collection. Burgenland as of now has a limited data collection of geothermal heat pumps and they express high interest in a template created by GeoBOOST to use it for their future data collection.

International statistics workshop on shallow geothermal energy installations

Short Summary:

On 27 February 2024, during geotherm EXPO in Offenburg, Germany, WärmeGut organized a workshop bringing together experts on geothermal heat pump data across Europe.

Promotional Campaign: social media posts were published in partners' accounts.

Date: 27 February 2024

Location: Offenburg, Germany Organizers: WärmeGut Target Audience: Building stakeholders, manufactures, installers, other

Discussed topics:

This knowledge exchange offered a great opportunity to see how data about geothermal heat pumps is generated, stored and updated in other countries. In the joint discussion it was agreed that an up-to date data collection is essential for a good market monitoring. The presentations about the countries gave good insights into the situation of the data collection of geothermal heat pumps. They provided important information for the deliverables in Workpackage 2 of the GeoBoost EU Project.

GeoTHERM Offenburg 2024

Short Summary:

Under the umbrella of Geotherm 2024, a GeoBoost meeting took place focusing on how to better communicate geothermal success stories. Participants explored which channels are most effective, how communication strategies differ from country to country, and how to tailor messages for two key target groups: internal and external audiences.

Promotional Campaign: brochure

Date: 29 February 2024 Location: Offenburg, Germany Organisers: EGEC Type of event: Meeting Target Audience: Building stakeholders, manufactures, installers, municipalities, other

Agenda:

Keywords and Key messages:

- Uniqueness
- Sustainability
- Resilience
- Economic growth
- Reliability
- Environmental benefits
- Energy independence
- Accessibility y
- Affordability

- Multiple applications

Target audiences:

- Internal audiences
- External audiences

Channels and tools

- Website
- Social media
- Events online and offline
- Conferences
- Mailing
- Publications
- Internal meetings

Tarted actions:

- Publications
- Videos
- Events online and offline
- Social media campaigns

Discussed topics:

The discussion focused on how to strengthen communication efforts around geothermal energy and better promote its advantages. Participants agreed on the importance of leveraging the Geothermal Stories at different levels and using them strategically to influence key audiences. While communication within the industry is already strong, the group highlighted the need to better reach decision-makers and to approach communication with a lobbying mindset.

Email communication was identified as an effective channel, but participants stressed the importance of understanding which platforms and formats are most visible to target audiences. Communication strategies may vary significantly between countries, and national associations play a crucial role in reaching policymakers and aligning messages with regional contexts. Sharing results and best practices across countries can help amplify impact.

Two main target groups were identified: internal and external audiences. Among the external stakeholders, European public authorities were considered the most important. Reaching them effectively often requires working through national associations, while lobbying efforts within the European Parliament remain essential. Internally, it is important to address challenges openly to collaboratively find solutions.

Case studies were highlighted as one of the most effective tools for communicating about geothermal energy, as they are accessible and easy for the public to understand. Many examples of operational projects already exist and are used in publications and events. Ongoing collaborations aim to gather examples from several European countries to build a

comprehensive overview of geothermal applications. Each country can contribute regional examples with concise descriptions of technologies and costs, which can then be published collectively. These efforts can be further expanded with the support of EGEC.
Participants noted that gathering project data is often difficult but extremely valuable for both national and European partners. Internal communication remains a priority, ensuring that members understand the organisation's activities and the benefits of being involved. At the same time, efforts are underway to identify and refine the external target audience to better allocate communication resources. A key question raised was how to select which success stories to highlight.
While there is significant expertise in communicating about traditional energy sectors, there is uncertainty about how to communicate new sustainable solutions and who the key audiences should be. Beyond social media campaigns, participants discussed the need to identify additional tools to reach their targets effectively.

Project meeting on resources for groundwater bodies and geothermal heat pump installations in Salzburg

Short Summary:

Presentation and discussion of project results about groundwater bodies in Salzburg and resource analysis for groundwater heat pumps.

Date: 6 May 2024
Location: Salzburg, Austria
Organizers: GeoSphere Austria
Target Audience: Municipalities

Discussed Topics:

Presentation of GeoBOOST results and joint discussion with representatives from the municipal departments of energy, water management and GIS about the possibilities of enlarging the data collection of existing geothermal heat pumps in Salzburg. We were recommended to discuss the data collection of geothermal heat pump installations further with the ministries of climate protection and water management on a national level.

Enerstock 2024

Short Summary:

Enerstock is an international conference dedicated to energy storage, held every three years under the auspices of the IEA Energy Storage Technology Collaboration Programme. The conference brings together the brightest minds to explore the latest advancements in science, policy, and implementation in energy storage technologies.
This year, Enerstock 2024 is scheduled to take place in Lyon from June 5 to June 7, 2024. It serves as a vital platform for experts to share insights and foster collaborations across diverse aspects of energy storage.
The IEA Energy Storage Technological Collaboration Program (IEA ESTCP) extends an invitation to participate in Enerstock 2024. This conference is designed as a forum for scientists, researchers, engineers, and industry representatives to present and debate their most recent findings, developments, and viewpoints. One of the primary goals for Enerstock 2024 is to address innovative and transformative ideas aimed at decarbonizing the global economy.
The event will feature a variety of sessions including invited speeches, keynotes, plenary discussions, and both oral and poster presentations covering topics such as thermal, electrical, and chemical energy storage, Power-to-X technologies, and advances in materials and components.
Hosted by the Department of Civil Engineering and Urban Planning at INSA Lyon and organised by The IEA Energy Storage Technological Collaboration Program (IEA ESTCP), Enerstock 2024 leverages the extensive research capabilities and industrial connections to enrich the discourse and impact of the conference.

Date: 5-7 June 2024 Location: Lyon, France Organizers: IEA Energy Storage – Geoboost was presented by Henk Witte, Groenholland NL Target Audience: Academics, professionals, building stakeholders, manufactures, municipalities, installers, other

Agenda:
Thursday, 6 June 2024
13:30 – 14:30 Poster session 2: Auditorium Pasteur
13:30 – 13:34 Experimental Study of Thermochemical Heat Storage with Zeolite 13X for Utilization of Industrial Wasted Heat, Hong Sungkook
13:34 – 13:38 The IN-Campus: A lighthouse site for re-used infrastructures as seasonal thermal energy storage, Bayer Peter
13:38 - 13:42 Highly Accurate Simulation of the Flow Effects during Loading with Swirl, Oestreich Felix
13:42 - 13:46 Genetic Algorithm Based Optimization of a closed sorption heat storage system using COMSOL Multiphysics and MATLAB, Abohamzeh Elham
13:46 - 13:50 Stability Evaluation of Cation-exchanged Zeolites through Repeated Experiment of Heat Charging and Discharging, Seongeun Kim

13:50 - 13:54 Investigation of a thermochemical storage system for the use of solar energy in domestic applications, Niederkofler Tobias
13:54 - 13:58 Experimental Study on Thermal Storage System with Sand and Al-Si Alloy for Coal-fired Plant Retrofit Carnot Battery, Junhyun Cho
13:58 - 14:02 Lignin modified ecological coating as thermal barrier in container materials for sorption heat pumps, Amini Sara
14:02 - 14:06 Proposal of advanced electrochemical techniques for improved monitoring control in sorption materials for TES systems, Fernandez Ångel G.
14:06 - 14:10 GIS-Based GSHP Sizing and Estimation Tool: Facilitating Non-Expert User Engagement and Technology Dissemination, Badenes Borja
14:10 - 14:14 GeoBOOST: Pioneering Efficient Geothermal Solutions through Barrier Mitigation in Europe, Witte Henk
14:14 - 14:18 Inventory data generation for prospective lifecycle design thorough full-year simulation of Carnot Battery with Al-Si based PCM, Fujii Shoma
14:18 - 14:22 Thermo-mechanical assessment of steels under service conditions in hot tanks used in CPS, Ardila Sergio
14:22 - 14:26 Binder-free K_2CO_3 granules for thermochemical heat storage, Salehzadeh Delaram
14:26 - 14:30 Specific heat capacity variability analysis of Chilean copper slag for packed-bed thermal energy storage applications, Segovia Valentina

Polish HP congress 2024

Short Summary:

The congress aimed to integrate the entire industry, as well as to exchange knowledge and experience between specialists. A dedicated session focused on ground source heat pumps (GSHPs), highlighting the current status of the GeoBoost project and presenting results from T5.1. Discussions emphasized the impact of electricity prices on investor interest and operating costs, the recent slowdown in the Polish heat pump market, and potential improvements with upcoming energy market changes. Participants explored strategies to revitalize the market, the support available, and the challenges the industry faces.

Date: 13 June 2024 Location: Warsaw, Poland Organizers: GeoSphere Austria Target Audience: decision makers, policy makers, manufacturers, installers, designers, municipalities, EHPA representatives, RAP representatives

Discussed topics:

Electricity prices remain the primary factor influencing investor interest in heat pump installations, significantly affecting their operating costs, though not exclusively. This influence has been particularly evident in recent months, when the Polish heat pump market experienced a notable slowdown. The discussion explored whether upcoming changes in the energy market—such as the introduction of dynamic tariffs and the adjustment of fuel prices—could improve the situation. Participants also debated strategies for revitalizing the heat pump market, the types of support available to the industry, and the challenges that need to be addressed to ensure sustainable growth.

Nationwide data collection of geothermal heat pump installations in Austria

Short Summary:

Presentation of GeoBOOST results and joint discussion with representatives from the ministry of Agriculture, Forestry, Regions and Water Management about the possibilities to enlarge the data collection of existing geothermal heat pumps in Austria.

Date: 18 June 2024
Location: Vienna, Austria
Organizers: GeoSphere Austria
Target Audience: Decision-makers

Discussed Topics:

The meeting took place at the Ministry in Vienna and covered a presentation about the project results of GeoBOOST regarding whole Austria. Afterwards an expansion of the data sets has been discussed. The reprensentatives of the Ministry were interested in the groundwater heat pumps, as they are related to water management. The Ministry supports the idea of GeoSphere Austria taking care of a nation-wide collection of data from the closed systems (e.g. borehole heat exchangers). GeoSphere Austria will schedule a meeting with the Ministry of climate protection, based on the recommendation given in this meeting and proceed with the establishment of a collection of closed loop geothermal heat pumps.

Geothermal Heat Pump Days 2024

Short Summary:

The Heat Pump Days 2024 in Dublin offered a comprehensive overview of current developments, challenges, and opportunities in geothermal heating and cooling across

Europe. Over three days, participants joined technical visits, policy discussions, market analyses, and presentations showcasing innovative geothermal solutions.

Promotional Campaign

- Website: http://www.geothermal-days.eu/, https://www.egec.org/events/geothermal-heat-pump-days-2024/ and https://gogeothermal.eu/projects/geoboost/
- Social Media: social media posts were published on the EGEC accounts (Twitter and LinkedIn) to promote the event.
- Newsletter: the event was promoted to the EGEC geothermal audience (+5000 subscribers) and the EGEC members through the roundup, flash news and the Geoboost E-news.

Date: 16-18 October 2024 Location: Dublin, Ireland Organisers: EGEC Type of event: Conference Target Audience: Building stakeholders, manufactures, installers, municipalities, other

Agenda:

Wednesday, October 16, 2024

16:00 to 18:00 Field trip: Trinity College Dublin: Heat pumps in Trinity College Dublin Rubrics

Meeting Time: 15:30 pm

In the historic confines of Trinity College, the Rubrics building stands as a testament to centuries past. As the oldest edifice on the Trinity campus, the Rubrics exude the character of seventeenth-century architecture. However, recognising the need for modernisation and efficiency, a refurbishment project was initiated in 2021 to transform the Rubrics into a more functional residential facility while preserving its rich heritage. This ambitious endeavour sought to expand the building's capacity and enhance its energy efficiency. Central to this transformation was the installation of ground source heat pumps, heralding a new era of environmentally friendly heating for the Rubrics.

Thursday, October 17, 2024

9:00 to 17:30 - Full Conference and Networking Dinner

Spencer Hotel: Excise Walk, IFSC, Dublin 1, Ireland, D01 X4C9

09:00 – 9:30 Get together and registration (coffee available at the entrance)

9:30 Welcome by EGEC & GAI

9:35-10:10 | Session 1 - Keynote addresses

Moderator: Emil Martini, EGEC

Policy Statement on Geothermal Energy For a Circular Economy - Ian Devlin, Department of Environment Climate & Communications, Ireland

Shallow geothermal energy and Ireland: the role of Geological Survey Ireland - Taly Hunter-Williams, Geological Survey Ireland

We need the industry to scale up geoenergy - Carlos Merino, Celsius Energy
10:10 – 10:40 | Panel Discussion
10:40 – 11:20 | Coffee Break
11:20 – 12:30 | Session 2 – The competitiveness of geothermal HP solutions
Moderator: Philippe Dumas, EGEC
Market framework conditions - Emil Martini, EGEC
Current developments of ground source heat pumps in Germany - Rüdiger Grimm, Geoenergie Konzept
Current perspective in Ireland as an emerging market - Rory Dunphy, Geothermal Association of Ireland
Market development in Finland - Johnny Lönnroth, Rototec Group
Panel Discussion
12:30– 14:00 | Fresh Lunch
14:00 – 15:40 | Session 3 - Innovative and good practice of geothermal HP across Europe.
Moderator: Konstanze Zschoke, Geoenergie Konzept
Implementation of Aquifer Thermal Energy Storage (ATES) in a mature oil field in Croatia - Initial results of InnoGeoPot trilateral project - Marija Macenić, University of Zagreb - Faculty of Mining, Geology and Petroleum Engineering
A versatile Solar Borehole Thermal Energy Storage (BTES) assisted by a Heat Pump - Charles MARAGNA, BRGM (French Geological Survey)
Access to Qualified Services for geothermal heat pumps - Javier F. Urchueguía, UPV
Borehole exchangers as thermal batteries: towards a new standard in GSHP dimensioning - Rafael Vinit, Celsius Energy
A Comprehensive Study of Heat Transfer Characteristics of Shallow Closed-Loop Geothermal Energy Systems - Krishna Chaitanya N, University of Limerick
A Comparative Study of Heat Transfer Characteristics in Shallow Closed-Loop Ground Heat Exchangers for Geothermal Energy Systems - Indrajit Chakraborty, University of Limerick
15:40 – 16:05 | Coffee Break
16:05 – 17:30 | Session 4 - End-users session
Moderator: Philippe Dumas,
EGEC Geothermal stories: GHP targeted solutions for different end-users - Victoria Bech, EGEC
Projects in Northern-Ireland for large buildings - Joseph Ireland, Queen's University Belfast
New method for designing clusters of individual systems and planning in the Netherlands - Henk Witte, Groenholland Geo-energysystems
Trinity College Dublin: presenting the refurbished Rubrics Building - Patrick Griffin, Trinity College Dublin Panel Discussion
17:30 | Conclusions of the day: Ric Pasquali, Geothermal Association of Ireland
20:00 | Networking Dinner - Fade Street Social Restaurant & Cocktail Bar 6 Fade St, Dublin 2, D02 NF77, Ireland

Friday, October 18, 2024

9:00 to 13:30 - Morning conference on cooling market and poster sessions
Spencer Hotel: Excise Walk, IFSC, Dublin 1, Ireland, D01 X4C9
9:00 - 10:20 | Session 1 - 'Cooling our cities'
Moderator: Emil Martini, EGEC
Cooling demand assessment for European buildings: methodology and result - Luc Pockelé, RED
Cooling technologies and key aspects for future systems Reuven Paitazoglou, Fraunhofer IEG
Scenarios and impact of the introduction of RES cooling technologies or passive measures in cities - Michele De Carli, University of Padua
EMPOWERING A FUTURE: INTEGRATING RENEWABLE COOLING SOLUTIONS INTO MUNICIPAL ENERGY PLANS - Borja Badenes, Universitat Politècnica de València
10:20 – 11:00 | Session 2 - 'Cooling: the case of Data Centres in Ireland'
Moderator: Philippe Dumas, EGEC
Good practices for renewable cooling - Emil Martini, EGEC
Geothermal cooling: a solution for Ireland? - Ric Pasquali, GAI
Ireland's Digital Landscape - David McAuley, BitPower
Discussion: How could geothermal cooling support grid management ?
11:00 - 11:25 | Coffee break
11:25 - 12:30 | Session 3 - Innovative and good practice on renewable cooling
Moderator: Konstanze Zschoke, Geoenergie Konzept
Innovation and research trends in geothermal - Luc Pockelé, ETIP Geothermal
ATELIER Bilbao. Ground Source Very Low Temperature DHC in Positive Energy Districts - Iñigo Arrizabalaga Valbuena , TELUR GEOTERMIA Y AGUA
Geothermy as alternative to fossile energy: Case Study "B3" Liège (BE) - Emilie Monaco, Province of Liege - EU Fundings
Networked Ground Source Heat Pumps and Shared Ground Loops: The UK Perspective - Ken Gordon, Ground Source Heat Pump Association (GSHPA)
12:30 - 12:45 | Conclusions: Ric Pasquali, Geothermal Association of Ireland
12:45 - 13:30 Fresh Lunch and poster session/roll-ups, Networking

Discussed topics:

The Heat Pump Days 2024 in Dublin offered a comprehensive exploration of the latest developments, challenges, and opportunities in geothermal heating and cooling across Europe.

Over three days, participants engaged in technical visits, policy discussions, market assessments, and presentations of innovative solutions shaping the future of geothermal energy.

The programme opened with a visit to Trinity College Dublin's Rubrics building, the oldest on campus and a landmark of seventeenth-century architecture. The recent refurbishment project, completed with the integration of ground source heat pumps, served as a clear example of how geothermal solutions can be incorporated into historic structures without

compromising their integrity. This case study set the tone for the following days, demonstrating how geothermal energy can align heritage preservation with modern sustainability goals.

The conference began with high-level reflections on the strategic role of geothermal energy in Europe's transition to a circular, sustainable economy. Public authorities and geological institutions underlined the importance of clearer frameworks, stronger policy support, and a more coordinated approach to scaling up geothermal technologies. A recurring theme was the need for industry and policymakers to move in tandem, addressing regulatory barriers and ensuring that geological data, permitting processes, and long-term planning work together to unlock geothermal's potential—particularly in heating and cooling.

A central part of the discussions focused on the competitiveness of geothermal heat pump solutions. Experts provided an overview of market conditions in several countries, including Germany, Ireland, and Finland. These exchanges highlighted a diverse European landscape: established markets with growing industrial capacity; emerging markets like Ireland, where interest is rising; and countries where rapid deployment is supported by clear national commitments. Across all regions, participants identified the importance of cost-effective system design, streamlined installation processes, and the availability of skilled professionals.

Innovation was showcased through numerous technical presentations, covering advanced thermal storage systems, new methodologies for borehole design, and research on heat transfer in shallow geothermal loops. Examples ranged from aquifer thermal energy storage in former oil fields to solar-assisted borehole storage and new standards for dimensioning geothermal systems. These cases illustrated how interdisciplinary cooperation—between academia, industry, and national associations—is accelerating technological progress.

A dedicated session for end-users demonstrated how geothermal heat pumps are being applied in real settings: large public buildings, clusters of individual houses, university campuses, and urban planning projects. The presentation of Trinity College Dublin's Rubrics renovation served as a practical example of how such systems can be integrated into existing infrastructures. The discussions reinforced that end-user needs vary widely, and that tailored solutions are essential for successful deployment across sectors.

The final day shifted focus to renewable cooling technologies, an increasingly urgent topic as cooling demand grows across Europe. Presentations provided assessments of cooling needs in buildings, emerging technologies, and the role of passive measures. Particular attention was given to the challenge of data centres in Ireland and the potential for geothermal cooling to ease pressure on the electricity grid. Discussions highlighted that geothermal solutions could contribute significantly to urban energy planning if integrated early in municipal strategies.

Across all sessions, participants emphasised the importance of strengthened cooperation among national associations, European institutions, researchers, and industry. The event demonstrated that Europe already has a rich catalogue of geothermal projects and technical expertise. However, there remains a need for more visibility, more case studies, and more consistent messaging to accelerate deployment and build recognition of geothermal energy as a mainstream solution for heating and cooling.

GeoTHERM Offenburg 2025

Short Summary:

The meeting reviewed national legislative and financial developments impacting geothermal energy and highlighted opportunities for collaboration across countries. Participants discussed how to strengthen cooperation by improving the exchange of information and best practices, clarifying what support they need from EGEC, and enhancing coordination of communications, press releases, and event promotion to ensure consistent and effective messaging across Europe.

Promotional Campaign

- Social Media: social media posts were published on the EGEC accounts (Twitter and LinkedIn) to promote the event.
- Newsletter: the event was promoted to the EGEC geothermal audience (+5000 subscribers) and the EGEC members through the roundup, and flash news.

Date: 20-21 February 2025
Location: Offenburg, Germany
Organisers: EGEC
Type of event: Meeting
Target Audience: Building stakeholders, manufactures, installers, municipalities, other

Agenda:

1. Tour de table

This introductory round will allow participants and Geoboost partners' representatives to present the latest developments from each country, highlighting key legislative and financial opportunities relevant to geothermal energy. By sharing updates on national frameworks, incentives, regulatory changes, and market conditions, the group will gain a clearer understanding of the evolving landscape across Europe. This exchange aims to identify common challenges, emerging opportunities, and potential areas for collaboration.

2. Engagement

The second part of the agenda will focus on strengthening cooperation and improving the flow of information within the geothermal community.

- Working better together: Participants will discuss how national associations, industry representatives, and EGEC can improve collaboration, particularly in terms of sharing best practices, project outcomes, and strategic insights.

- Information needs: The group will outline what types of materials, data, or guidance they require from EGEC to support their national activities—whether technical resources, policy analyses, communication toolkits, or visibility support.
- Coordination of communications: A key point of discussion will be how to better align communication actions across countries, including synchronising press releases, promoting events, and ensuring consistency in messaging. Improving coordination can help amplify geothermal energy's visibility, create stronger narratives, and enhance impact at both national and European levels.

Discussed topics:
The meeting began with a tour de table in which participants shared updates about the Geoboost project and insights from their respective countries, focusing on key legislative developments and financial opportunities shaping the geothermal sector. This exchange provided an overview of national policy landscapes, allowing the group to identify common challenges as well as emerging areas of potential collaboration. The discussion then moved to the theme of engagement, where participants reflected on how cooperation within the geothermal community could be strengthened. They examined ways to improve the sharing of information and best practices across countries and explored what types of resources or support they would find most useful from EGEC, whether technical insights, policy analyses, or communication materials. A significant part of the conversation centred on how to better coordinate communication activities—including press releases, event promotion, and public messaging—to ensure consistency and greater impact at both national and European levels.

GeoBOOST Lifecycle Cost Assessment Tool at the National Stakeholder Workshop in Austria

Short Summary:
The Competence Unit Geoenergy at GeoSphere Austria hosted the collaborative Stakeholder Workshop about "Tools for Geothermal Energy" in Vienna. The event brought together stakeholders from across the geothermal sector of Austria for a morning of insightful presentations and hands-on sessions. A highlight was the demonstration of the GeoBOOST Lifecycle Cost Assessment Tool for comparing shallow geothermal energy systems with other heating and cooling technologies in terms of their net present value and the levelized cost of energy.
The tool, originally developed by the project partner Rototec, was expertly showcased at the event by Cornelia Steiner from GeoSphere Austria. Attendees had the opportunity to explore the tool's functionalities and discuss its applications. GeoBOOST was featured alongside other

EU-funded projects (namely, SAPHEA, TRANSGEO and GO-Forward), contributing to a lively exchange on innovative solutions for the energy transition.

Date: 23 June 2025, 09:30 – 12:00 Location: GeoSphere Austria, Neulinggasse 38, 1030 Vienna Organizer: GeoSphere Austria Target Audience: Local and regional authorities, technical experts and researchers

Agenda:
09:30 –10:30 Welcome address and 3 x 15 min. short presentations (lecture hall)

10:30 –12:00 Hands on stations (in the Lobby)

SAPHEA: Integration of geothermal energy in district heating and cooling grids

Transgeo: „Well assessment Tool" to select potentially suitable drillings for their subsequent use

GeoBoost: Lifecycle Cost assessment Tool for shallow geothermal energy installations

GO-Forward: General informations about the project.

Webinar "Shallow geothermal system registries"

Short Summary:
The webinar "Shallow geothermal system registries and data bases as a prerequisite of sustainable utilization" organized by the GeoEnergy Expert Group of the EuroGeoSurveys addressed the current state of shallow geothermal system registries in the European Union. With growing deployment of shallow geothermal systems, the risk of thermal and hydraulic interactions between them is increasing. If not addressed properly, this can lead to conflicts and unintended effects.
To address these challenges, many countries are implementing permitting systems and data registries. These are not only crucial for managing installations but also for tracking progress in the energy transition and conducting market analysis of shallow geothermal energy.
This webinar will provide an overview of national approaches to such registries. The talks presented four national case studies and insights from the GeoBOOST project on which data are most valuable to collect.

Promotional Campaign

- Social Media: social media posts were published on the GSEU and personal linkedIN accounts of speakers

Date: 9 July 2025, 15: 30 – 17:00 (CET) Location: online, hosted on Webex Organizer: Eurogeosurveys Target Audience: Geological Survey Organisations, local and regional authorities, technical experts, researchers, university faculty and students, sustainability practitioners, and other

Agenda:

15:30 - 15:45 **Ignasi Herms** (ICGC):

*Shallow Geothermal Energy installations database in **Catalonia (OGSCat)***

15:45 - 16:00 **Vladimir Soldo** (University of Zagreb):

*The **PLIGES** Project database of shallow geothermal systems in **Croatia***

15:45 - 16:00 **Erik Simmelink** (TNO):

*Shallow geothermal database of the **Netherlands***

16:00 - 16:15 **Simona Adrinek** (Geological Survey of Slovenia):

*Shallow geothermal database of **Slovenia***

16:15 - 16:45 **Cornelia Steiner** (GeoSphere Austria):

***GeoBOOST** project recommendations for a comprehensive database of shallow geothermal systems*

16:45 - 17:00 **Collaborative discussion**

Key takeaways:

1. **An EU-wide mandatory registration framework** would help member states to ensure consistent data tracking. Such a framework would support an accelerated rollout of geothermal heat pump registries throughout the EU. Currently, only few EU countries maintain nationwide registries for geothermal heat pump systems, leaving significant data gaps. A unified approach would ensure harmonized data collection.
2. **Mandatory data collection is most effective** when implemented and maintained by public institutions.
3. **Communication matters**: Emphasizing that data collection is a tool for climate action – rather than administrative burden – can help to build public and institutional support.
4. **Good visualizations increase impact**: Maps and graphics make databases more accessible and useful to planners, developers, and policymakers.

Where to watch the recording:
https://youtu.be/VxVc3UtotOA

EGC 2025

Short Summary:
Session 7D of the European Geothermal Congress 2025, titled "Regulations and Guidelines – Shallow Geothermal" and moderated by Konstanze Zschoke, explored the regulatory frameworks supporting shallow geothermal deployment. Presentations covered the Italian Geotechnical Association's recommendations for designing and constructing energy geostructures, the GeoBOOST project's efforts to promote efficient and sustainable geothermal solutions, and new European guidelines aimed at unlocking shallow geothermal potential. The session highlighted the importance of clear, harmonised standards to ensure quality, safety and wider market uptake.

Promotional Campaign

- Website: https://europeangeothermalcongress.eu
- Social Media: social media posts were published on the EGEC accounts (Twitter and LinkedIn) to promote the event.
- Newsletter: the event was promoted to the EGEC geothermal audience (+5000 subscribers) and the EGEC members through the roundup, and flash news.

Date: 9 October 2025

Location: Zurich, Switzerland Organisers: EGEC Type of event: Congress Target Audience: Academics, professionals, building stakeholders, manufactures, municipalities, installers, other

Agenda:

Session 7D of the European Geothermal Congress 2025
Title of the session: "Regulations and guidelines – Shallow geothermal"
Moderator: Moderator: Konstanze Zschoke
14:40-14:55 Giorgia Dalla Santa - Italian Geotechnical Association's recommendations for the design and construction of energy geostructures
14:55-15:10 Javiera Chocobar Villegas - GeoBOOST: Towards an Efficient and Sustainable Adoption of Pioneering Geothermal Solutions
15:10-15:25 Fleur Loveridge - New European guidelines to unlock shallow geothermal energy resources via energy geostructures"

Discussed topics:

Session 7D of the European Geothermal Congress 2025, titled "Regulations and Guidelines – Shallow Geothermal", focused on the regulatory and technical frameworks needed to support the wider deployment of shallow geothermal energy. Moderated by Konstanze Zschoke, the session brought together experts presenting national and European perspectives on standards and best practices.

The discussion opened with an overview of the Italian Geotechnical Association's recommendations for the design and construction of energy geostructures, highlighting the importance of clear technical guidance to ensure safety, efficiency and long-term performance. This was followed by insights from the GeoBOOST project, which aims to accelerate the efficient and sustainable adoption of innovative geothermal solutions by improving methodologies and harmonising practices across countries. The session concluded with a presentation on new European guidelines for unlocking shallow geothermal potential through energy geostructures, showcasing ongoing efforts to create a more consistent and supportive regulatory environment across Europe.

Together, these contributions underlined the critical role of harmonised regulations and well-defined guidelines in enabling high-quality installations, supporting market development and strengthening confidence in shallow geothermal technologies.

Geothermal Summit 2025 - Ireland

Short Summary:

The Geothermal Sumit 2025 held in Dublin was origanised with a specific target audience of local authorities, government agencies and public sector bodies. The scope of the sumit was to promote the ongoing work in the geothermal sector in Ireland and to showcase new tools aimed at increasing the uptake of geothermal resources in the residential and public sector building stock in Ireland. The Summit focused on 4 key sessions: Session 1, which provided an update on the sector, the ongoing work on new policy to support the sector and how this aligns with public sector decarbonization. Session 2 focussed on the promotion of new tools in the form of maps to showcase potential uses of shallow and deep geothermal resource, the importance of increasing awareness of geothermal technologies through training of key public sector staff (GeoBoost MOOC course) and how such tools and training was applied at local authority level. Session 3 focussed on ongoing project developments in the geothermal sector and Session 4 on next steps. Each session included project specific presentations and a moderated panel discussion.

Promotional Campaign

- Website: https://www.gsi.ie/ga-ie/programmes-and-projects/geothermal/activities/Pages/National-Geothermal-Energy-Summit.aspx
- Social Media: social media posts were published on the GSI, GeoServ accounts (LinkedIn) to promote the event.
- Newsletter: the event was promoted to the EGEC geothermal audience (+5000 subscribers) and the EGEC members through the roundup, and flash news

Date: 15th October 2025
Location: Dublin, Ireland
Organisers: Geological Survey, Department for Climate, Energy & Environment (DCEE)
Type of event: Congress
Attendance: 120 persons
Target Audience: : Local authorities, Health care sector government departments, Department of Climate Energy & Environment, Geological Survey, Energy Agencies

Agenda:

Session 2 – Tools and Data for Geothermal Projects (Moderator: Stephen Cull, Dublin City Council)
11:40 - Ireland's National Geothermal Database: new maps and tools
Sarah Blake (GSI), Ric Pasquali & Rory Dunphy (Geoserv, consultants to GSI)
12:00 Geothermal energy and the Tullamore Decarbonizing Zone Mark Mahon & John McNally (Offaly County Council)
12:20 GeoBoost: A New Online Course on Shallow Geothermal Energy
Ric Pasquali (Geoserv / GeoBoost Project)
12:30 Interactive Q&A Panel: Session speakers, Niamh O'Sullivan (SEAI)

Discussed topics – Session 2:

Session 2 focussed on nrew mapping tools developed by Geological Survey to demonstrate the potential of shallow and deep geothermal resources and discussed these in the context of their use for heating and cooling in different sectors (residential, public sector buildings and industrial uses). Local Auhtorities presented on how their collaboration with both GSI and GeoBoost partners has allowed them to include geothermal option as a future heating and cooling solution for large scale social housing developments. This was followed by a presentation of the GeoBOOST project and specifically the MOOC, which was aimed at demonstrating to planners, decision makers, architects and local authority staff how the MOOC developed by the project can provide a basis for training and certification on all aspects of shallow geothermal technologies and allow them to better improve their understanding all of aspects of project planning, execution and operation. The session was concluded by a panel discussion in which the other aspects of the GeoBoost project were showcased.

Comparing the affordability of heating and cooling systems across European countries

Short Summary:

As part of the Geothermal Webinar Series, the 19th session featured a GeoBoost presentation focusing on regulatory barriers and strategies, financial frameworks and recommendations, and the upcoming Massive Open Online Course (MOOC) on geothermal energy.

Presenters: Javiera Paz Chocobar Villegas (TUM), Marlon Brancher (Geosphere Austria), and Ric Pasquali (GeoServ).

Attendance: 83 participants.

Date: 20 November 2025
Location: Online
Organisers: Geological Survey of Northern Ireland
Type of event: webinar
Target Audience: Public Sector Bodies, students, academics, local authorities

Where to watch the recording:

https://www.youtube.com/watch?v=eTysH2olpDY&list=PLSh4uWn_rRutea1FyaWQpACIOElFuFud2&index=1&pp=iAQB0gcJCRUKAYcqIYzv

Geothermal energy and sustainable buildings: local actions for global goals

Date: 4 December 2025
Location: Valencia, Spain
Organizer: Universitat Politecnica de Valencia (UPV)
Target Audience: local and regional authorities, technical experts, researchers, university faculty and students, energy professionals, sustainability practitioners, and other

Short Summary:

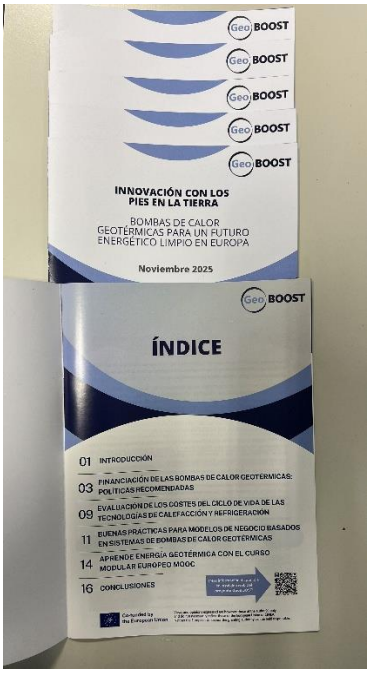
On 4 December 2025, Universitat Politècnica de València (UPV) organized and hosted the event "Geothermal Energy and Sustainable Buildings: Local Actions for Global Goals" in Valencia, Spain (Auditorium, Building 3P – ground floor), with simultaneous interpretation.

The event served as a meeting point for institutions, experts and companies to share ideas, real-world examples and solutions that demonstrate how the energy of the future can come from the Earth—connecting European climate goals with concrete local actions

Europe has set an ambitious goal: to achieve climate neutrality before 2050. To reach this target, the European Green Deal and Fit for 55 plans are driving a profound transformation in how we use and produce energy. This includes increasing the use of renewable sources and improving the energy efficiency of our buildings, which currently represent a major share of energy consumption and emissions in cities. On this path, geothermal energy, the clean energy that comes from the heat beneath the Earth's surface, stands out as a key ally. It is a renewable, stable, and emission-free source of energy, capable of providing heating, cooling, and hot water with minimal environmental impact.

The event "Geothermal Energy and Sustainable Buildings: Local Actions for Global Goals" invites participants to discover how the energy from the ground can transform our public buildings and cities, linking Europe's goals with concrete actions at the local level.

It will be a meeting point for institutions, experts, and companies to share ideas, real-world examples, and solutions that are already proving that the energy of the future can come from the Earth. During the event, participants received the Spanish version of the GeoBOOST brochure, developed as a key project outcome. The brochure was distributed to support municipalities and technical stakeholders with accessible information on geothermal solutions for public buildings and the steps required to implement them locally.



The European project GeoBOOST was created to remove the barriers that still hinder the widespread use of geothermal energy in Europe, supporting public administration and the technical sector in the transition toward more sustainable and efficient buildings.

Agenda:

09:00 – 09:30 | Reception and Welcome Coffee
09:30 – 10:00 | Opening Session
Welcome and institutional opening
Javier Urchueguía - Universitat Politècnica de València (UPV)
Rüdiger Grimm - geoENERGIE Konzept (Representative of the GeoBOOST Project)
Adrián Casabó – Director General of the Valencian Federation of Municipalities and Provinces
10:00 – 11:00 | Panel 1 — European Vision: From Climate Commitment to Sustainable Action
Moderator: Borja Badenes - Universitat Politècnica de València (UPV)
Participants:
Emil Martini – European Geothermal Energy Council (EGEC)
Cornelia Steiner – GeoSphere Austria
Javier Urchueguía – Polytechnic University of Valencia
11:00 – 12:00 | Panel 2 — Cities in Transition: Local Energy for Global Change
Moderator: Joan Aguado - Diputacò de Valencia
Participants:
Mati Marín Palop – Mayor of Enguera and President of AMUFOR. Municipal Maintenance Technician of
Paterna.
Javiera Chocobar - Technical University Munich (TUM)
Jakub Koczorowski - Polish Organization of Heat Pump Technology Development (PORT PC)

12:00 – 13:00 | Panel 3 — Geothermal Energy in Action: Real-World Solutions that Work
Moderator: Miguel Mateo Pla - Universitat Politècnica de València (UPV)
Participants:
Juan Medina Burgos – Responsible for Network Services, Paterna Municipal Management and Services
Heliodoro Sancho Irazo – Director of Engineering at Global Omnium and Member of the AIGUAterm
Project Consortium.
Henk Witte - Groenholland
13:00 – 13:10 | Closing Remarks
José Vicente Oliver- Universitat Politècnica de València (UPV)
13:10 – 14:10 | Coffee – Networking and Visit to the Geothermal Installation (AIGUATERM Project)
Group organization:
Group A: 13:25 h
Group B: 13:45 h

The event gathered around 40-50 participants, reflecting strong interest from local and regional authorities, technical experts, researchers and industry. The high level of engagement across the panels, together with the technical visit and networking sessions, confirmed the relevance of geothermal energy as a realistic pathway to decarbonise public buildings—making the event a clear success.