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GeoBOOST

NEWSLETTER

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geoENERGIE Tag 2025 - the largest geothermal meeting for German-speaking countries

Every year the geoENERGIE Tag serves as an important platform for geothermal energy professionals. The event promises a full day of enriching presentations, focused discussions and invaluable networking opportunities. Approximately 100 high-level representatives from business, science, politics and society are expected to attend.

The programme will cover a wide range of topics, from the latest project launches to insightful analysis of market trends and ground-breaking scientific discoveries.

Although the main conference language will be German, geothermal energy knows no borders and many participants will come from different countries.

The annual geoENERGIE Day will take place on 5 June 2025 and the workshop on the afternoon before (on 4 June 2025). The venue is the DBI - Gastechnologisches Institut gGmbH Freiberg. Tickets are available for speakers, participants, exhibitors and participants of the evening event. Tickets are sold exclusively through EVENTBRITE.

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Specialization in Shallow Geothermal Energy: Skills Development and Training Across the EU

Overview of the MOOC

Dive into the world of renewable energy with the "Specialization in Shallow Geothermal Energy: Skills Development and Training Across the EU" course. This flagship initiative under the GeoBOOST project is your chance to become a leader in one of the most sustainable energy sectors. Designed to be practical, engaging, and forward-looking, this MOOC provides an exceptional opportunity to explore shallow geothermal energy's latest technologies, policies, and applications. Whether you are a driller, decision-maker, planner, policy authority, installer, designer, or energy consultant, this course is tailored to equip you with actionable skills to make an impact in your field.

Why This MOOC?

Developed by top-tier EU specialists from renowned institutions like GEK, GBA, EGEC, GroenH, Rototec, GeoServ, UPV, TUM, and PortPC, this course stands out for its comprehensive and practical approach. It is designed to be accessible to a diverse audience, ensuring that participants are prepared to tackle tomorrow's energy challenges with future-ready solutions.

What You Will Learn

The course delves into geothermal fundamentals, helping participants understand the science and technology driving shallow geothermal energy systems. It explores GSHP technology and principles of heat transfer, providing a solid foundation for further learning. Participants will also gain expertise in designing and optimizing systems, including borehole and groundwater heat exchangers while discovering techniques for performance optimization. Additionally, the course navigates policy frameworks and decision-making tools, offering insights from real-world case studies across Europe.

Transform Your Career

This MOOC is an opportunity to build a competitive edge with in-depth knowledge of geothermal energy. Participants will connect with professionals and innovators from across the EU, creating valuable networking opportunities. By joining this course, you can drive change in the renewable energy sector and contribute to a sustainable future.

Enroll Today!

Although enrollment has not started yet, you can stay informed by visiting the project website for updates and detailed information about the "Specialization in Shallow Geothermal Energy" course. Together, let us shape the future of sustainable energy!

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Geothermal Heat Pump Days 2024: the event was a success!

Geothermal Heat Pump Days 2024 took place at the end of 2024 in October in Dublin, Ireland. Building on the legacy of Shallow Geothermal Days, this conference is evolving from 2019 to emphasise the critical role of geothermal heat pumps, both large and small, in achieving a sustainable and net-zero future. Geothermal heat pumps have emerged as a cutting-edge solution that provides clean, quiet heating and cooling while significantly reducing utility bills by up to 70%. This technology goes beyond traditional ground source heat pumps, offering versatile applications such as free cooling and seasonal underground heat storage. In the crucial decade leading up to 2030, Geothermal Heat Pump Days 2024 will bring together policy makers, scientists and industry experts to address the upcoming climate and energy challenges.

Participants gained valuable insights into the latest advances, innovations, and best practices shaping the future of geothermal heat pumps. Before the event day, a site visit to the Trinity College Dublin's historic Rubrics building was organized, and attendees learned about the successful integration of ground-source heat pumps in one of the oldest structures on campus, blending architectural preservation with modern energy efficiency.

This event promoted a deeper understanding of the opportunities and challenges in the geothermal heat pump sector, facilitating the transition to a sustainable, decarbonised energy future.

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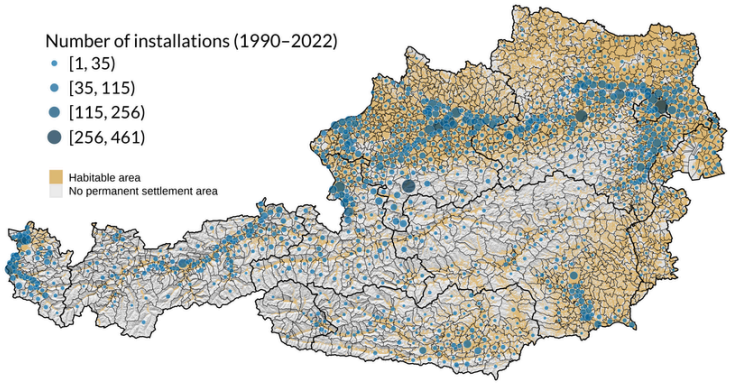
New Study Maps 30+ Years of Groundwater Heat Pump Adoption in Austria



A new study published in Applied Energy has tracked the spread of groundwater heat pumps (GWHPs) across Austria over the past 30 years, revealing key insights into this renewable heating and cooling technology. By gathering data from all nine federal provinces, researchers created a unified national dataset of over 17,000 installations (1990–2022) to understand long-term adoption trends for the first time.

Nationally, GWHP installations have increased by 5.6% per year—but not all regions are growing at the same pace. While some areas have seen fast adoption, others have changed little or even declined. Interestingly, the regions with the highest number of installations do not necessarily have the steepest growth rates when population or habitable land area are taken into account. This highlights the importance of looking at multiple indicators when analysing trends, as each offers a unique perspective.

The study also provides preliminary insights into the factors influencing GWHP uptake. Economic prosperity, educational attainment, and climatic conditions all seem to play key roles in determining where GWHP systems gain traction.

Beyond its findings, the study's methodology is particularly noteworthy. By combining spatial and temporal analysis, the approach offers a flexible framework that can be applied to explore the adoption of other renewable technologies in different countries worldwide.

Read the full study HERE.

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ADEME's latest study: geothermal energy's benefits and findings

In France, geothermal energy is the most affordable source of heat for both individuals and businesses, according to ADEME.

"Geothermal has a date with history," declared ADEME President Sylvain Waserman.

Key insights from the study:

- **Stable prices**: Geothermal heat pumps for large buildings maintained costs between 81-97 €/MWh from 2012 to 2022—despite inflation and rising electricity prices in recent years.
- **Significant savings:** Geothermal heat is over three times cheaper than electric boilers.
- **Cost leadership:** For collective and tertiary buildings, geothermal remains the most economical option.

Read more and dive into the full study HERE.

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