

Vision for Deep Geothermal: Looking towards 2050

Pisa, 27th March 2018 – In the birthplace of geothermal energy (Pisa, Italy), the European Technology & Innovation Platform on Deep Geothermal has presented its “**Vision for Deep Geothermal**” to look at future development of deep geothermal energy and highlight the great potential of untapped geothermal resources across Europe.

Meeting this week in Tuscany, a region where geothermal already employs nearly 10,000 people and provides clean and reliable energy to thousands more, helping reduce dependency from fossil fuels imports, the ETIP-DG releases its Vision document and launches works on its Strategic Research Agenda.

“Our Vision is that by 2050 geothermal energy can cover a significant part of domestic heat and electricity demand,” said Ruggero Bertani, Chairman of the ETIP-DG. “As a local and stable source of renewable energy, geothermal will be crucial in the future energy system, providing power, heat and thermal storage.”

The publication highlights how the success of the energy transition entails designing optimal scenarios in terms of costs and affordability for the customers and the citizens, while guaranteeing energy comfort. The Vision is designed to trigger a debate about how best to achieve a future for geothermal energy in Europe that is secure, affordable and carbon free, and which has the least impact on nature. It puts forward ten key messages (see overleaf, pag.2), which include growth, a focus on resource potential, sustainability, cogeneration and hybridisation, without forgetting the social dimension.

In the upcoming months, the Strategic Research Agenda and Roadmap documents will outline the research priorities to develop between now and 2050 if this Vision is to be achieved.

The European Technology & Innovation Platform on Deep Geothermal (ETIP-DG) is an open stakeholder group, endorsed by the European Commission under the Strategic Energy Technology Plan (SET-Plan), with the overarching objective to enable deep geothermal technology to proliferate and reach its full potential everywhere in Europe. It brings together representatives from industry, academia, research centres, and sectoral associations, covering the entire deep geothermal energy exploration, production, and utilization value chain.

Participation to the activities of the ETIP-DG is free and on a voluntary basis. Members are informed about the activities of the ETIP-DG and are invited to contribute to the drafting of the Strategic Research Agenda and the Technology Roadmap. For more information, visit www.etip-dg.eu

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Vision for Deep Geothermal: Key Messages

Resource potential: Geothermal is a widely available energy source, since underground heat is available everywhere

Fit for purpose: Geothermal has a large margin of progress in numerous applications and places

Stability & availability: Geothermal energy is available around the clock and has a predictable output

Growth: Geothermal resources are yet to be developed in most parts of the world and are ready to become a local economic development booster

Sustainability: The geothermal environmental footprint is much lower than those of other energy sources

Cogeneration & hybridization: Geothermal can be combined with other energy sources and technologies to increase efficiency

Flexibility: Geothermal can be adapted to any type of energy demand, providing base load energy when needed

Optimization: Geothermal is a versatile energy, whose multiple-applications are optimized by cascade uses of heat

Cool & appealing: beside cooling the air of our houses, working spaces, malls, airport... geothermal is simply beautiful because it is essentially invisible

Market penetration & social dimension: Geothermal is a domestic and green resource, secure, stable, clean, and contributes to energy efficiency



The sole responsibility of this publication lies with the author. The European Union is not responsible for any use that may be made of the information contained therein. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No [773392 — DG ETIP]