



Webinar

“Novel approaches in shallow geothermal resource mapping”

Invitation

Date and location of the workshop: 10th of May 2021, 3 pm – 4:30 pm (CET, Vienna – Berlin-Paris), digital event

About the workshop

Mapping shallow geothermal resources is an important but still challenging exercise when it comes to spatial resolution and adaptability of information provided to end-users. Policy makers prefer large scale maps, which deliver information in an easy digestible format, anticipated by non-geoscientists as well. Energy planners need to have resource maps translating geoscientific parameters into technical ones. This has partly been achieved for single installations (e.g. borehole heat exchangers - BHE) at typical operational schemes for single buildings. However, appropriate mapping workflows are still lacking when it comes to large scale BHE fields operating at a combined heating and cooling mode.

This webinar presents recent findings of two recently accomplished projects addressing shallow geothermal energy mapping. The EU project GEOCOND addressed new and enhanced materials for BHE pipes and grout for improved efficiency and economy of shallow geothermal installations. The work in this project also included the generation of pan-European maps of relevant ground parameters. The national Austrian project GEL-SEP addressed the integration of shallow geothermal energy into interactive heat supply maps at various scales of resolutions between a community and individual building level. Using the g-function approach helped to increase the level of flexibility for mapping resources linked to the application of BHEs for different heat demand scenarios.

Program

3 pm*	<i>Opening of the webinar and welcome address</i>
	Adela Ramos Escudero (University of Cartagena) & Burkhard Sanner (UbeG GbR): Large scale, pan-European resource mapping – results from the EU project GEOCOND”
	Martin Fuchsluger & Cornelia Steiner (Geological Survey of Austria): The application of g-functions in shallow geothermal resource mapping for the project GEL-SEP (Austria)
	Q&A round and joint discussion
4:30 pm	<i>End of the webinar</i>

*all times in CET (Vienna – Berlin – Paris)

How to register to the webinar

Participating at the webinar is free of charge. For registering please contact gregor.goetzl@geologie.ac.at. Registering will close on the 10th of May 2021 at 2 pm (CET, Vienna time).



About GeoERA-MUSE

GeoERA MUSE addresses managing shallow geothermal energy use in European urban areas. The projects, organized under the GeoERA umbrella of EuroGeoSurveys investigates novel approaches covering the entire management circle including resource and limitation of use mapping, legal procedures and licensing, operation and monitoring for supporting a so called integrative and adaptive management approach in cities. Web based GIS maps at local scale represent the central interface between these steps and offer vital instruments for authorities and decision makers. GeoERA MUSE represents a collaboration of 15 national Geological Survey Organisations inside EuroGeoSurveys for harmonizing and testing methodologies and approaches concerning mapping and management in 14 different European urban areas.

For more information on GeoERA MUSE please visit <https://geoera.eu/projects/muse3/>.

About GEOCOND

The GEOCOND project operated from May 2017 to February 2021 with the main objective to develop new and enhanced materials for BHE pipes and grout. Through a cooperation of material scientists, industry and shallow geothermal specialists, substantial improvements in both fields have been made, and the efficiency gains made possible by the advanced materials have been confirmed in a test field and some full-size installations. Mapping on a European scale was key to define the optimum target values for the new materials, and examples of regional mapping in Spain contribute to site design support. GEOCOND was supported by the European Union's Horizon 2020 research and innovation programme under grant agreement No 727583.

For more information on GEOCOND please visit <https://geocond-project.eu/>.