

“100 good reasons for using geothermal energy in heating and cooling networks”

Fact Sheet

Background

- Around 400 heating and cooling (HC) networks are in operation in Europe covering the full range of low temperature (“5th generation”) local networks to conventional direct geothermal energy use in district heating
- The share of geothermal energy supplied HC inside the European heating and cooling sector is still very small (~1%)
- Despite of the great potential considering its technological spectrum, geothermal HC networks still lack of visibility and awareness among investors and decision makers
- The EU COST Action CA18219 “Geothermal-DHC” (2019 – 2023) initiated an open research network addressing various aspects of integrating geothermal energy into HC networks at various temperature- and capacity level (from shallow to deep geothermal use) - chair of the Action: Gregor GOETZL, Geological Survey of Austria, gregor.goetzl@geologie.ac.at, website <https://www.geothermal-dhc.eu>.

Objectives of the initiative

- Making the use of geothermal energy in heating and cooling networks more visible and accessible in Europe
- Creating a persistent GIS supported web tool on characterized case studies in Europe - the COST Action Geothermal-DHC supports the build-up
- Disseminating the technological spectrum of market proven and innovative solutions to integrate geothermal energy into heating and cooling networks

About the initiative

- *Kick-off Phase (summer 2022)*: Data assessment via an electronic survey to create a first data stock – access links are shown below
- *Soft launch during the EGC 2022 (side event, 21 October “Geothermal District Heating and Cooling Workshop”)*: Presentation of the beta version of the web GIS tool and its related infrastructure
- *Permanent mode (from October 2022 on)*: Case study related content management system at the CA18219 Geothermal-DHC website – Case studies can be edited and added
- *After CA18219 (from end of 2023 on)*: New host of the web portal will be identified

Data assesses and privacy regulations

- Case study characterization focuses on technological and operational aspects allowing for general characterization – other topics (e.g., environmental or economic aspects) might be added at a later stage if required
- Publicly accessible data focus on data ranges instead of specific values



- Specific values can be added on a voluntary basis and will not be explicitly published
- All data provided must be linked to data owners and will undergo plausibility and conformity checks – data owners will be asked to approve the publishing of the provided information during the kick-off phase
- Data owners will have full access control to the data provided once the content management system has been implemented (from autumn 2022 on)

How to support the ‘100 good reasons initiative’

- *Geothermal associations, interest groups and other federations and working groups* are invited to become cooperating partners to enhance the impact of this initiative and involve operators and owners of geothermal HC networks – cooperating is not affected by any costs or obligations. In return, logos can be shown on dissemination materials and communication channels
- *Operators and owners of geothermal energy supplied heating and cooling networks* are invited to participate via the online survey (for more information on the access links please see below) form before autumn 2022 or via the permanent content management system after autumn 2022 – it is recommended to compile the required data by using an offline, editable PDF form offered by CA18219 Geothermal-DHC

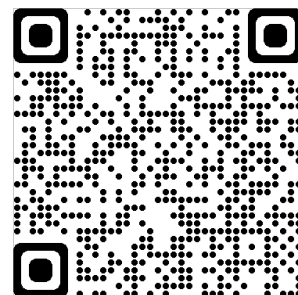
Further information and contacts

Chair of the COST Action CA18219 Geothermal-DHC

Mr. Gregor Goetzl c/o Geological Survey of Austria, Neulinggasse 38, 1030 Vienna, Austria

E-Mail: gregor.goetzl@geologie.ac.at / CA18219@geologie.ac.at

Collection of information and access links related to the “100 good reasons” initiative at the CA18219 Geothermal-DHC website



ONLINE BRIEFING ON THE "100 GOOD REASONS" SURVEY INCLUDING Q&A

3:00 PM - 4:00 PM Monday, May 23 2022 (UTC+02:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna

Recording link:

Password: bHJek3dv

Recording link: <https://geologicalsurveyofaustria.my.webex.com/geologicalsurvey-ofaustria.my/jdr.php?RCID=e856aa8ac3fd00203bfad5345a238738>