

Invitation to join the “100 good reasons for using geothermal energy in heating and cooling networks” initiative

About the initiative

Geothermal energy offers various technological concepts to supply heating and cooling (HC) networks at various temperature and capacity levels. The main benefits of using geothermal energy in heating and cooling networks are obvious: *Reduction of energy imports, high energy conversion factors, low environmental impact and surface land consumption and stable and predictable costs.* Geothermal energy does not just provide base load, it supports sector coupling and the use of volatile renewables through underground thermal energy storage. Despite of significant market gains in the past decade, geothermal energy supplied heating and cooling networks still cover a marginal niche inside the European heating and cooling sector. One reason for this is the still prevailing low visibility and awareness towards geothermal energy supplied heating and cooling networks among decision makers and investors inside the heating and cooling market.

To tackle this obstacle, the “100 good reasons for using geothermal energy in heating and cooling networks” initiative (‘100 good reason initiative’) intends to raise the visibility of successfully operating geothermal HC networks in Europe in order to inform and inspire future market actors. The initiative intends to create a web map application of operating and planned projects linked to informative fact sheets on each site to exhibit the full technological spectrum of geothermal HC networks starting from low temperature local networks (e.g., “5th generation heating and cooling networks”) towards conventional large capacity district heating networks. The build-up of the tool is organized in the framework of the EU COST Action CA18219 Geothermal-DHC in 2022 and 2023 (www.geothermal-dhc.eu). However, the long term aim is to create a durable web tool covering innovative and successful applications of geothermal heating and cooling networks across Europe, where future projects and sites can be added and characterized by operators and owners.

How to support the ‘100 good reasons initiative’?

During the initiative, we will collect key characteristics of geothermal HC networks during an electronic survey, which will be open from May 2022 on. Participants from your country inside the EU COST Action CA18219 Geothermal-DHC will be happy to assist you during the survey. To identify your national contact please contact CA18219@geologie.ac.at.

The electronic survey can be reached via the following link:
<https://form.jotform.com/220974357193362>.

In order to prepare your input data we recommend to you using the editable [PDF offline template](#) for assembling your answers. Please note that you cannot reopen the online form once started. Data entered in the meantime might get lost.

What will happen with the answers provided by you?

The survey follows two major aims:

1) Published outline and characterization of geothermal energy supplied heating and cooling networks in Europe

The answers given by you will be published in public accessible fact sheets linked to a web map service, which will be available at www.geothermal-dhc.eu until the end of 2023. Afterwards, the application will eventually be integrated into the web portal of the European Geothermal Energy Council or any similar international non-profit organization for a durable presentation. The main target group of this application will be public or private market actors (investors or decision makers) interested in the application of geothermal energy in Europe. In order to protect your economic interests and data privacy related to your business, eventually sensitive information (e.g. capacities, annual heat production, temperature levels etc.) will only be accessible in terms of categories for values. The online survey form includes questions, which requires mandatory answers. These questions are crucial to allow for a general characterization and description of your case study. All other questions may be asked on a voluntary level in order to provide additional helpful information to the visitors of the '100 good reason initiative'.

2) Internal data analyses concerning the technological situation and key drivers, executed within the EU COST Action CA18219 Geothermal-DHC

Geothermal-DHC aims at investigating technological as well as non-technological aspects for a better integration of geothermal energy into heating and cooling networks from a scientific perspective. Your answers provided during the survey will be used to perform statistical analyses and provide crucial information to identify future research and development efforts required. For that purpose, the electronic survey offers the voluntary option to provide specific values characterizing your geothermal energy supplied heating and cooling network. The COST Action CA18219 Geothermal-DHC ensures that these data will neither be made public nor be shared with third parties. In addition to answering the online survey form, a Geothermal-DHC representative from your country will contact you for a personal optional and voluntary stakeholder interview to identify market actor requirements to make geothermal energy use more attractive in and to identify possible further support given by science.

From autumn 2022 on, the preliminary online survey form will be transformed into a permanent web based content management systems (CMS), to which you will have access to further update or adapt your entries. As a user at the later CMS you will also have the right to delete your case study in case you decide not to support the initiative anymore. In case you would like to withdraw the information given through the survey ahead of autumn 2022, please write a short message to CA18219@geologie.ac.at.

Preliminary dissemination strategy of the '100 good reason initiative'

2022 – Soft launch

- **October:** Presentation of the web map tool and fact sheets at a Geothermal-DHC side event of the European Geothermal Congress 2022, 20 October 2022, Berlin – you will receive a personal invitation to join this event
- **November:** Digital, European wide information campaign on the web map tool including the digital fact sheets

2023 – Full launch

- Presentation of the results of the initiative during the international “European Geothermal District Heating and Cooling Day” event (location and date to be defined)
- Publishing of a digital booklet linked to the ‘100 good reasons initiative’ containing selected case study fact sheets collected
- Launch of the permanent web map application on geothermal heating and cooling networks in Europe

Why participating at the ‘100 good reasons initiative’?

- Help increasing the visibility of geothermal energy in heating and cooling networks in Europe
- Promote your installation / project to a European wide audience
- Exchange ideas and concepts with other market actors in the same field of application
- Make yourself and your services visible in Europe – sponsoring models will be offered for the dissemination activities

Cooperation partners of the initiative



Interested in becoming a cooperation partner?

We are looking for cooperation partners to enhance the impact of this initiative when it comes to interlinking with stakeholders and communication activities. Being a cooperation partner is not affected by any costs. Instead we offer to post your logo on the communications and tools we develop.

If you are interested to become a cooperating partner, please contact gregor.goetzl@geologie.ac.at.

Web briefing for participating at the “100 good reasons” web survey, May 23, 15:00-16:00

We are offering an online briefing on filling out the survey and are happy to answer your questions. You do not need to register to this training and may join via the access link shown below:

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

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

Meeting link:

<https://geologicalsurveyofaustria.my.webex.com/geologicalsurvey-ofaustria.my/j.php?MTID=m10705b4903708677e403c4b367b4a943>

Contacts

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