

# CA18219 Geothermal

## Call for applications concerning grants offered in Period 4 (end of October 2023)



### 1 SUBJECT

The COST Association offers various types of Grants for reaching the goals of its Actions and offer financial support in scientific collaboration. In this context, CA18219 Geothermal-DHC offers the below listed types of Grants for the period until end of October 2023.

#### a) **Sort Term Scientific Mission (STSM)**

*Maximum number of grants offered: upon availability of funds*

STSMs cover physical research stays of a CA18219 participant at a hosting institute (university or research lab) for a period between 5 and 90 calendar days including travel. They aim at supporting individual mobility to establish new collaborations or reinforce existing ones across disciplines and sectors with possible impact on career development. We expect follow-up publications linked to the funded activity. Other follow-up activities, such as funded projects may also constitute very welcomed outcomes of STSM that contribute to the visibility and impact of our COST Action and encourage other researchers to join. For more information on STSMs, please see **section 8** of the [COST Vademecum](#) and **Annex 2** of the [COST Annotated Rules](#).

#### b) **Virtual Mobility Grant (VM Grant)**

*Maximum number of grants offered: 6 - upon availability of funds*

VM Grants consist of a collaboration in a virtual setting among researchers or innovators within the COST Action to exchange knowledge, learn new techniques, etc.. Virtual mobility benefits both, the Action as it can use a flexible tool to implement virtual activities to achieve MoU objectives and increase impact and reach, and it benefits the VM grantee in developing capacity in virtual collaborations and enables networking in a pan-European framework.

For more information on STSMs, please see **section 10.2** of the [COST Vademecum](#) and **Annex 2** of the [COST Annotated Rules](#).

#### c) **ITC Conference Grant**

*Maximum number of grants offered: upon availability of funds*

ITC (Inclusiveness Target Country) Conference Grants aim at supporting Young Researchers and Innovators from [ITC and NNC \(Near Neighbouring Country\)](#) to attend international conferences that are not organised by the COST Action CA18219 Geothermal-DHC. The main subject of the oral/poster

presentation at the conference must be on the topic of “Geothermal Energy for Heating and Cooling” and must acknowledge COST Action Geothermal-DHC (CA18219).

For more information on STSMs, please see **section 9** of the [COST Vademecum](#) and **Annex 2** of the [COST Annotated Rules](#).

**d) Dissemination Conference Grant**

*Maximum number of grants offered: upon availability of funds*

Dissemination Conference consists in a presentation of the work of the Action in high-level conferences by an Action participant. They aim at significantly increase visibility of the Action in the research community and contribute to increasing visibility of the presenter.

For more information on STSMs, please see **section 4.3** of the [COST Vademecum](#) and **Annex 2** of the [COST Annotated Rules](#).

**e) Financial publication support**

*Maximum number of grants offered: upon availability of funds*

CA18219 Geothermal-DHC offers financial support in paying submission fees of articles in open access journals, which result from a joint collaboration inside the Action.

For more information, please see the [Publication Support Strategy](#).

## 2 DESCRIPTION OF CALL FOR GRANTS IN PERIOD 4

The Management Committee of CA18219 Geothermal-DHC decided to launch a set of **closed topic priority calls** (see chapter 2.1) to achieve the objectives and aimed outputs of the Action. However, in order to follow the COST policies, a maximum share of 40% of provided funds will be offered to **Grants outside the priority calls** (see chapter 2.2).



### **Maximum duration of Grants**

Please note that all Grants related activities must be accomplished **before 15 October 2023**

#### 2.1 Priority calls in Period 4

Priority calls constitute an important instrument to achieve the objectives and aimed outputs of CA18219 Geothermal-DHC. In contrast to open Grants, the anticipated activities and expected outcomes are predefined. At some of the proposed priority calls, the applicant may select the type of Grant, which she/he finds more appropriate to fulfill the stated objectives. The description of the proposed priority calls is shown in the subsequent **Table 1**.

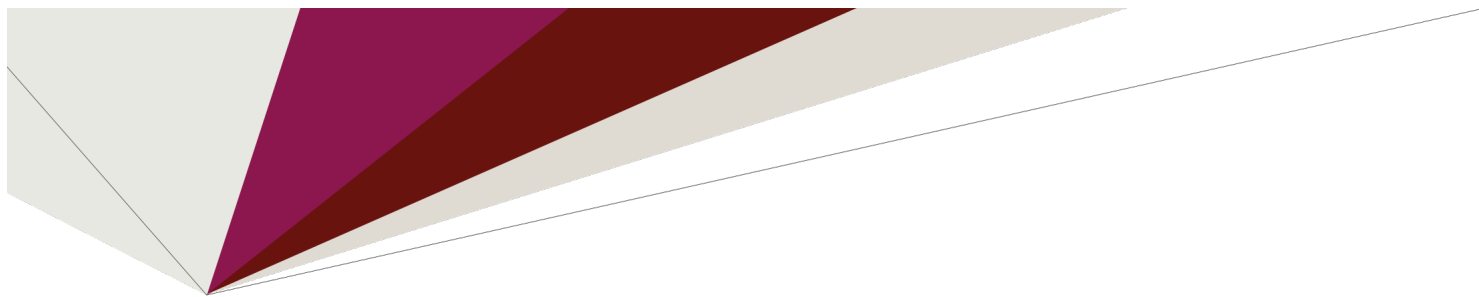


Table 1: Overview of priority calls on Grants offered in Period 4.

Title of the call Short description	Type of Grant	Expected outputs	Expected duration and end of Grant	Estimated maximum amount of Grant in EUR
<p><b>Finishing of technological fact sheets on the priority topics: deep geothermal energy use, shallow geothermal energy use, unconventional geothermal energy use, HC networks and geothermal energy integration</b></p> <p>CA18219 started to prepare summaries for key geothermal technologies related to the use of geothermal energy. For the above mentioned technologies, the summaries are partly prepared or not started yet. During the Grant, the awardee is expected to finalize the fact sheets based on literature review. Templates of the summaries will be provided. A single application</p>	<p>STSM or VM Grant <b>Max. 3 Grants</b></p>	<p>Ready to publish fact sheets (10 to 20 pages each)</p>	<p>Accomplishment of activities before June 2023 <b>STSM:</b> Up to 3 weeks for finishing two fact sheets, up to 10 days for finishing a single fact sheet</p>	<p><b>STSM:</b>EUR 3500 (two fact sheets) EUR 2000 (one fact sheet)* <b>VM Grant:</b> EUR 500 (1 fact sheet), EUR 1000 (2 fact sheets)</p>
<p><b>Preparation of digital contents for the Geothermal-DHC web portal linked to a deputy lead position of the Working Group Outreach and Communication</b></p> <p>The awardee is expected to support the Science Communication Manager in building up relevant scientific content for the Geothermal-DHC web portal related to the use of geothermal energy in heating and cooling networks and the work of CA18219. This call is linked to a deputy lead position of the Working Group "Outreach and Communication". The awardee is expected to prepare text content and summaries for Social Media Channels, identify new content and make existing one more attractive. This also includes the preparation of contents for dissemination material (Action flyers and folders).</p>	<p>VM Grant <b>1 Grant</b></p>	<p>Text for Geothermal-DHC web portal and digital channels.</p>	<p>Accomplishment of activities before June 2023</p>	<p>Up to EUR 1500</p>

<p><b>Economic evaluation of geothermal energy in heating and cooling networks in a European context</b>The Grant addresses the evaluation and comparison of economic boundary conditions (e.g., LCoE, financial incentives) for geothermal energy supplied HC networks. The evaluation should consider at least a set of representative European countries or all countries participating at CA18219 in a simplified procedure and aim at comparing geothermal HC networks with conventional HC networks and individual geothermal use with regard to cost benefits. The analyses may also include the link between legal framework and economic viability.</p>	<p>VM Grant or STSM <b>1 Grant</b></p>	<p>Short fact sheet regarding to the topic of the Grant; Follow-up scientific publication for submission fees (financial support can be offered)</p>	<p>Accomplishment of activities before September 2023 <b>STSM:</b> up to 4 weeks</p>	<p><b>STSM:</b> up to EUR 4500*<b>VM Grant:</b> Up to EUR 1500</p>
<p><b>Country comparison of the regulatory framework for the deployment of geothermal energy supplied heating and cooling networks</b> Based on key characteristics and associated KPIs, a country based comparison of the regulatory framework is executed via surveys among the Action members and literature research. The key findings will be summarized and disseminated in a short, up to 4 page long fact sheet using a harmonized format.</p>	<p>VM Grant <b>1 Grant</b></p>	<p>Short fact sheet regarding to the topic of the Grant Follow-up scientific publication for submission fees (financial support can be offered)</p>	<p>Accomplishment of activities before September 2023</p>	<p><b>VM Grant:</b> Up to EUR 1500</p>
<p><b>Preparation of Geothermal-DHC short fact sheets (up to 4 pages) of high priority topics</b> The aimed Geothermal-DHC short fact sheets intend to compile and transfer expert knowledge and positions on topics of importance to stakeholders outside the scientific community. The awardee is expected to coordinate the content wise preparation of one fact sheet according to the list of proposed topics. Additional topics may be proposed in the application. The proposed topics of short fact sheets can be found <a href="#">here</a>.</p>	<p>STSM or VM Grant</p>	<p>Short fact sheet regarding to the topic of the Grant</p>	<p>Accomplishment of activities before September 2023 <b>STSM:</b> up to 21 days</p>	<p><b>STSM:</b>EUR 3000 * <b>VM Grant:</b> EUR 1000</p>
<p><b>Promising present and future technical concepts for the inclusion of geothermal energy in heating and cooling grids in Europe</b>This grant aims at a review of market ready, market close and low TRL future technical concepts how to integrate geothermal energy in heating and cooling networks covering the spectrum of 2G/3G towards 5G DHC networks. Findings should base on literature review, expert interviews or virtual workshops and include the results of the Geothermal-DHC "100 good reasons initiative" to collect and characterize case studies on geothermal heating and cooling networks across Europe</p>	<p>STSM or VM Grant <b>Max number upon availability of funds</b></p>	<p>Technical report constituting the CA18219 deliverable D7. Short fact sheet related to the topic of the Grant; Follow-up scientific publication for submission fees (financial support can be offered)</p>	<p>Accomplishment of activities before September 2023 <b>STSM:</b> up to 4 weeks</p>	<p><b>STSM:</b>EUR 3500 *<b>VM Grant:</b> EUR 1500</p>

## 2.2 Grants offered outside the priority calls

Application for Grants, in line with the COST Association and CA18219 eligibility rules and selection criteria, should demonstrate a benefit to fulfill the CA objectives as stated in the [Work and Budget Plan of CA18219 Geothermal-DHC](#).

The below shown table exhibits topics and keywords of enhanced interest, which are in line with the actual version of the CA18219 Geothermal-DHC “**Publication Strategy**”<sup>1</sup> and will be preferred in the evaluation procedure:

Table 2: Topics and keywords in line with the objectives of CA18219 Geothermal-DHC.

Topics of interest linked to STSMs	Proposed keywords (non-exhaustive list)
<ul style="list-style-type: none"><li>• Solutions for the integration of geothermal technologies in multivalent heating and cooling (HC) networks</li><li>• Social perception and environmental impact of geothermal HC networks in Europe</li><li>• Enhancing the competitiveness of geothermal energy supported heating and cooling networks</li><li>• Business models linked to geothermal HC networks</li><li>• Regulatory framework linked to geothermal energy in HC networks</li><li>• Underground Thermal Energy Storage in the context of use in HC networks</li><li>• Energy &amp; exergy analysis of geothermal HC networks and system optimization (e.g. peak load shaving)</li><li>• Innovative solutions for geothermal energy use in HC networks</li><li>• Geothermal cooling in the context of HC networks</li><li>• Heat recycling and sector coupling solutions linked to geothermal energy use in HC networks</li><li>• Strategies and measures to better integrate geothermal energy in HC networks in Europe</li></ul>	UTES, shallow/medium/deep geothermal, unconventional geothermal energy, geothermal heating, geothermal cooling, district heating/cooling network, exergy analyses, system integration

**Please note:** Proposed STSMs, which do not meet the topics of interest or proposed keywords may be granted if a clear benefit of reaching the Actions objectives is demonstrated.

## 3 ELIGIBILITY AND SELECTION CRITERIA OF GRANTS OFFERED

### 3.1 Eligibility criteria

Please note that all Grants offered must be in line with the COST rules stated in the [COST Vademecum](#) and [Annotated Rules](#). In addition, CA18219 Geothermal-DHC requests additional eligibility rules on approval by the Management Committee. For more details, please see the table below.

A [Grant Awarding Committee](#) is entitled to propose changes to the content and extent of a Grant applied based on the application submitted.

<sup>1</sup> For more information please visit: <https://projects-gba.geologie.ac.at/index.php/s/QX8mHNFUvjiV13j>

Table 3: Summary of eligibility rules for Grants offered by CA18219 Geothermal-DHC

Grant type	COST general rules	CA18219 specific rules
Sort Term Scientific Mission (STSM)	<b>Vademecum, section 8</b> <b>Annotated Rules, section 6.4, A2-2.3, A2-3</b> Up to a maximum of EUR 4 000 in total can be afforded to each successful applicant. Up to a maximum of EUR 160 per day can be afforded for accommodation and meal expenses.	Duration of the STSM may be revised by Grant Awarding Committee upon application documents Only one person per organization / affiliation can apply for STSM support per each grant period.
Virtual Mobility Grant (VM Grant)	<b>Vademecum, section 10.2</b> <b>Annotated Rules, section 6.4, A2-2.3, A2-3</b>	Optional caps on maximum Grants as stated in Table 1 or upon decision by the Grant Awarding Committee
ITC Conference Grant Dissemination Conference Grant	<b>Vademecum, section 4.3, 9</b> <b>Annotated Rules, section 6.4, A2-2.3, A2-3</b> Up to EUR 2 000,00 per grant for face-to-face conferences OR EUR 500.00 for virtual conferences	None
Financial publication support	<b>Vademecum, section 11.3</b> <b>Annotated Rules, section A3-3.1</b>	<a href="#">CA18219 Publication Strategy</a>

### 3.2 Selection criteria

A Grant Awarding Committee will evaluate the received applications based on the following criteria:

- ✓ **Priority Calls:** Soundness of the proposed activities and expected impact on achievement of the expected outcomes;
- ✓ Expected impact on the objectives of CA18219 Geothermal-DHC and Grant Period 4 Goals according to the [Work and Budget Plan of CA18219 Geothermal-DHC](#);
- ✓ Appropriateness of the proposed work and budget plan;
- ✓ Support of COST and CA18219 Geothermal-DHC inclusiveness policies on gender balance and ITC member integration.

All applicants will be notified on the outcomes of their applications including a short justification of the decision.

## 4 APPLICATION PROCEDURE

### 4.1 Collection dates

The subsequent table lists the collection dates for each call. Grants can be started right after the formal approval via the [eCOST system](#).

Table 4: Collection dates for calls and grants organized in Period 4.

Call type	Collection date
Geothermal-DHC priority calls (all types of Grants)	<b>17-02-2023, 17:00 CET</b> (call 1), follow-up calls may be put in place
Sort Term Scientific Mission (STSM)	<b>17-02-2023, 17:00 CET</b> (call 1), follow-up calls may be put in place

Virtual Mobility Grant (VM Grant)	<b>17-02-2023, 17:00 CET</b> (call 1), follow-up calls may be put in place
ITC Conference Grant	Continuous collection until 15-09-2023 on availability of funds
Dissemination Conference Grant	Continuous collection until 15-09-2023 on availability of funds
Financial publication support	Continuous collection until 15-09-2023 on availability of funds

Additional calls may be organized upon decision of the Management Committee of CA18219 Geothermal-DHC.

#### 4.2 Application procedure

For all Grants offered by CA18219 Geothermal-DHC, the following **general application steps** must be executed:

- ✓ Carefully read the Grant Awarding User guide, Nov 2021 (<https://www.cost.eu/uploads/2021/12/Grant-Awarding-userguide.pdf> )
- ✓ Elaborate your profile on [e-COST](#);

The subsequent Table 5 summarizes all Grant type specific application steps.

Grant type	Submission	Necessary documents & templates	Remarks
Sort Term Scientific Mission (STSM)	<a href="#">Via eCOST</a>	<a href="#">Application form</a> ; Budget and time plan including the planned start and end of your STSM Letter of Support (recommendation letter) from HOME Institution (1 page based on a <i>defined template</i> ) Letter of Support (invitation letter) from the HOST Institution (1 page, based on a <i>defined template</i> ) CV with the list of publications (1-2 pages)	If referring to a priority call please send application form and budget estimation in addition to <a href="mailto:CA18219@geologie.ac.at">CA18219@geologie.ac.at</a>
Virtual Mobility Grant (VM Grant)	Via eCOST	<a href="#">Application form</a> CV with the list of publications (1-2 pages)	
ITC Conference Grant	Via eCOST	<a href="#">Application form</a> Copy of the abstract of the accepted oral or poster presentation Acceptance letter from the conference organisers A CV (including a list of publications – if applicable)	If referring to a priority call please send application form and budget estimation in addition to <a href="mailto:CA18219@geologie.ac.at">CA18219@geologie.ac.at</a>
Dissemination Conference Grant			
Financial publication support	<a href="#">Online application form</a>	Short abstract and proposed journal	



#### Applications to priority call grants

In case you apply to a priority call Grant, please refer to the call title in your application!

## 5 OBLIGATORY REPORTING AND DISSEMINATION REQUIREMENTS

All awardees of Grants are obliged to support the communication and dissemination activities of CA18219 Geothermal-DHC by:

- ✓ Providing the obligatory reports via the eCOST reporting system
- ✓ Contributing to a webinar series on the outcomes of the Grants offered (15 to 20 minutes oral presentation)
- ✓ Publishing a short report on the outcomes of the Grant at the CA18219 Geothermal-DHC website ([www.geothermal-dhc.eu](http://www.geothermal-dhc.eu))
- ✓ All awardees are encouraged to publish the work supported via Grants at conferences and in scientific journals – successful Grant awardees have priority access to the CA18219 publication support Grant!

## 6 CONTACTS

- ✓ For any administrative question: [CA18219@geologie.ac.at](mailto:CA18219@geologie.ac.at)
- ✓ Concerning contents of STSMs: [Nina.Rman@GEO-ZS.SI](mailto:Nina.Rman@GEO-ZS.SI) (Mrs Nina Rman)
- ✓ Concerning Virtual Mobility Grants: [CA18219@geologie.ac.at](mailto:CA18219@geologie.ac.at)
- ✓ Concerning ITC Conference Grants: [rao.m.singh@ntnu.no](mailto:rao.m.singh@ntnu.no) (Mr Martand Singh)
- ✓ Concerning Dissemination Conference Grants: [v.gemeni@haee.gr](mailto:v.gemeni@haee.gr) (Mrs Vasiliki Gemeni)
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