

Digital media content

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www.saphea.eu



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Introduction

SAPHEA is a HORIZON Coordination and Support Action (CSA) that addresses the uptake of multivalent heating and cooling networks supplied by geothermal energy and underground storage ('geoHC networks') by creating a durable digital market uptake hub. The hub contains toolboxes and guidelines to support stakeholders in early-stage investment decisions and strategy planning activities, and addresses market actors in districts or municipalities all across Europe. Therefore, the project combines, adapts and expands existing open source tools considering a set of market ready and emerging technological concepts linked to geoHC networks.

The main objectives of the project are:

- Establishing a digital access point for decision making support and consultancy on geothermal energy use in heating and cooling networks
- Adapting and upgrading existing datasets and tools for early stage investment decisions and strategic planning of energy suppliers, communities and municipalities
- Fostering supportive market frameworks to facilitate future investments into 'geoHC networks'
- Reducing social gaps and barriers to bring 'geoHC networks' closer to regional stakeholders across Europe
- Empowering future investors and operators of 'geoHC networks'

1. Static website and digital tools

The SAPHEA project and Market Uptake Hub are presented within the [gogeothermal](#) platform. Managed by EGEC, gogeothermal serves as a repository of different geothermal projects funded by the European Union. This approach allows for keeping publicly available all the tools developed within the different projects (even after their end), while providing a single repository source for the sector.

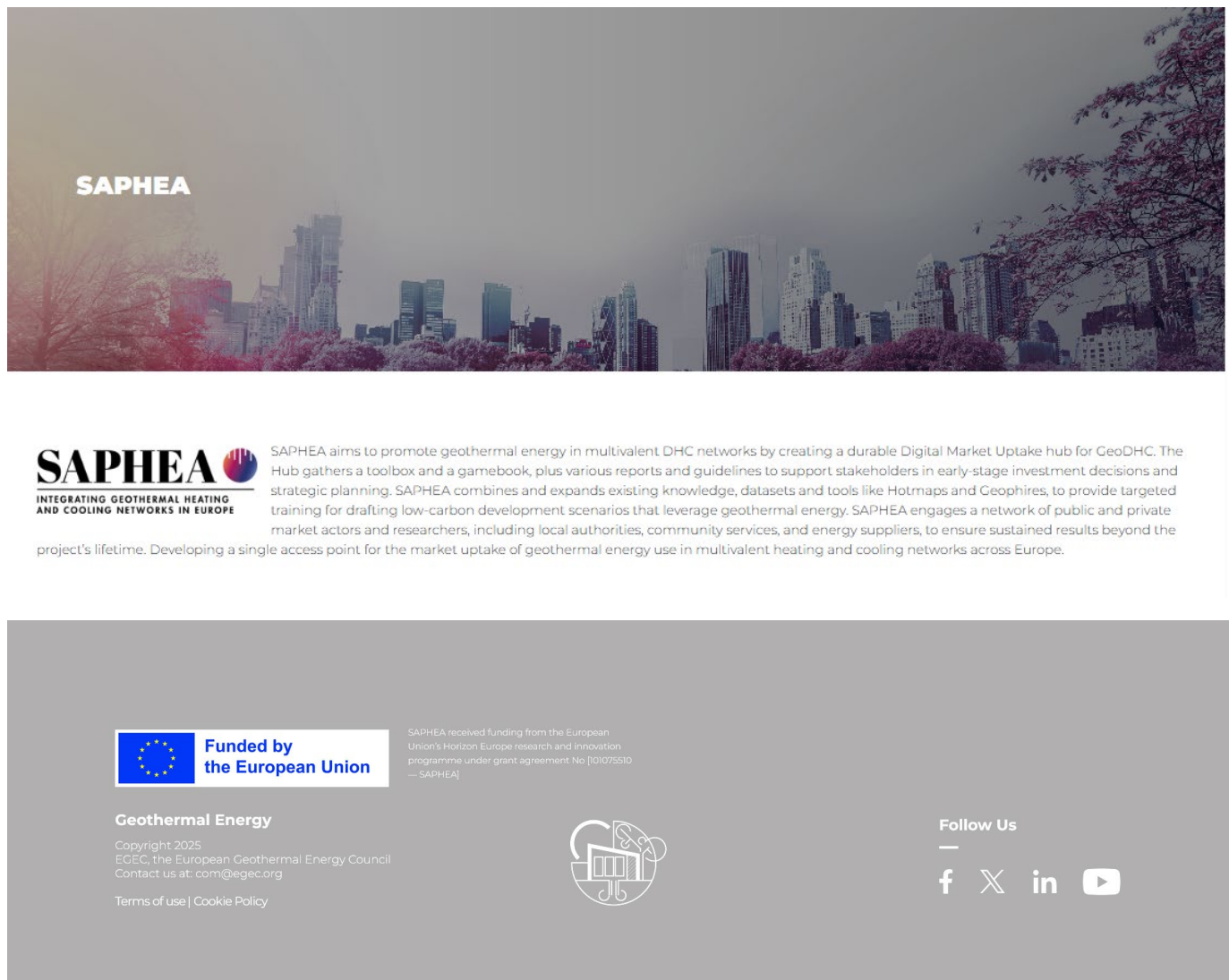


Figure 1: SAPHEA website (gogeothermal)

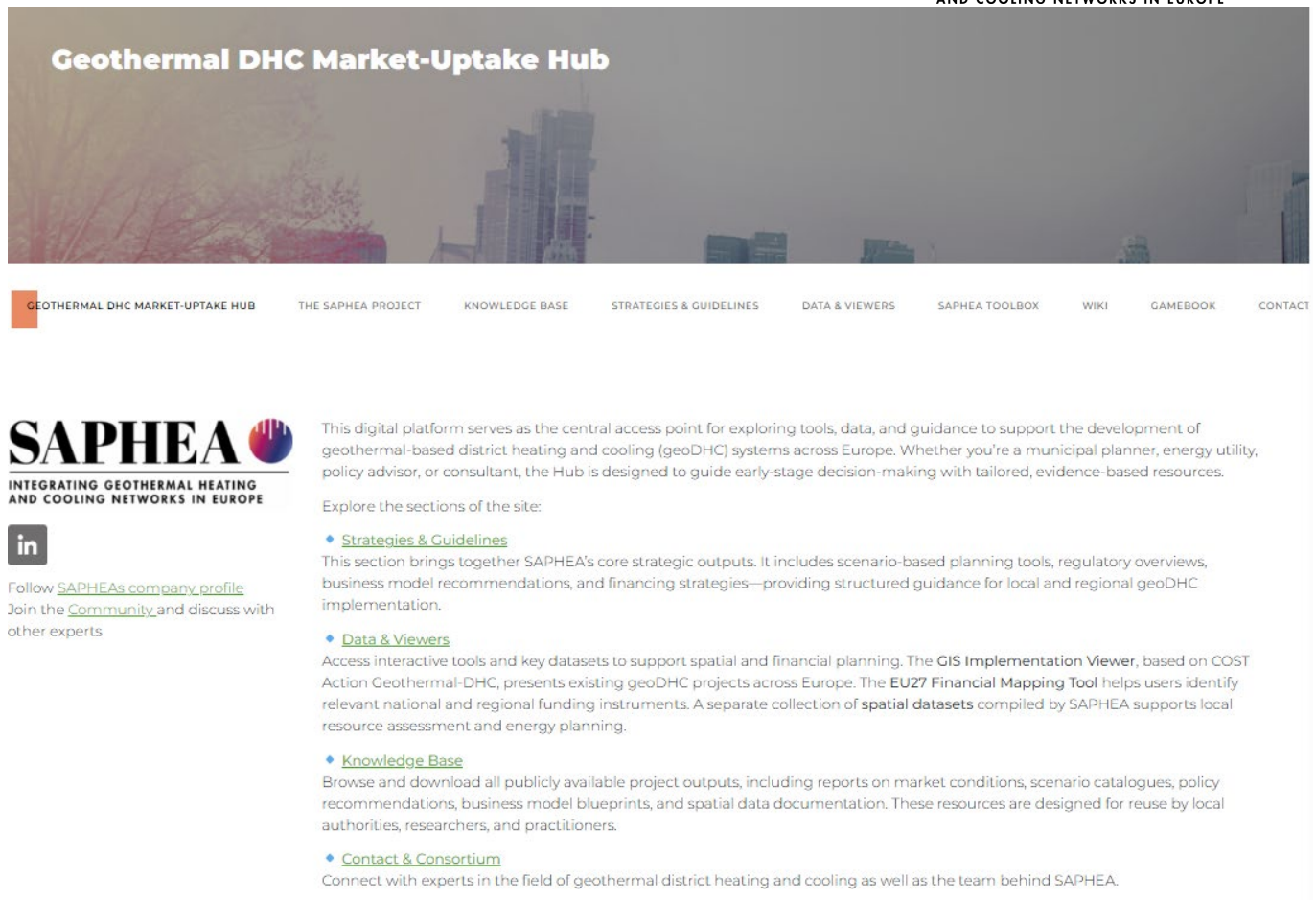


Figure 2: SAPHEA Market Uptake Hub (gogeothermal)

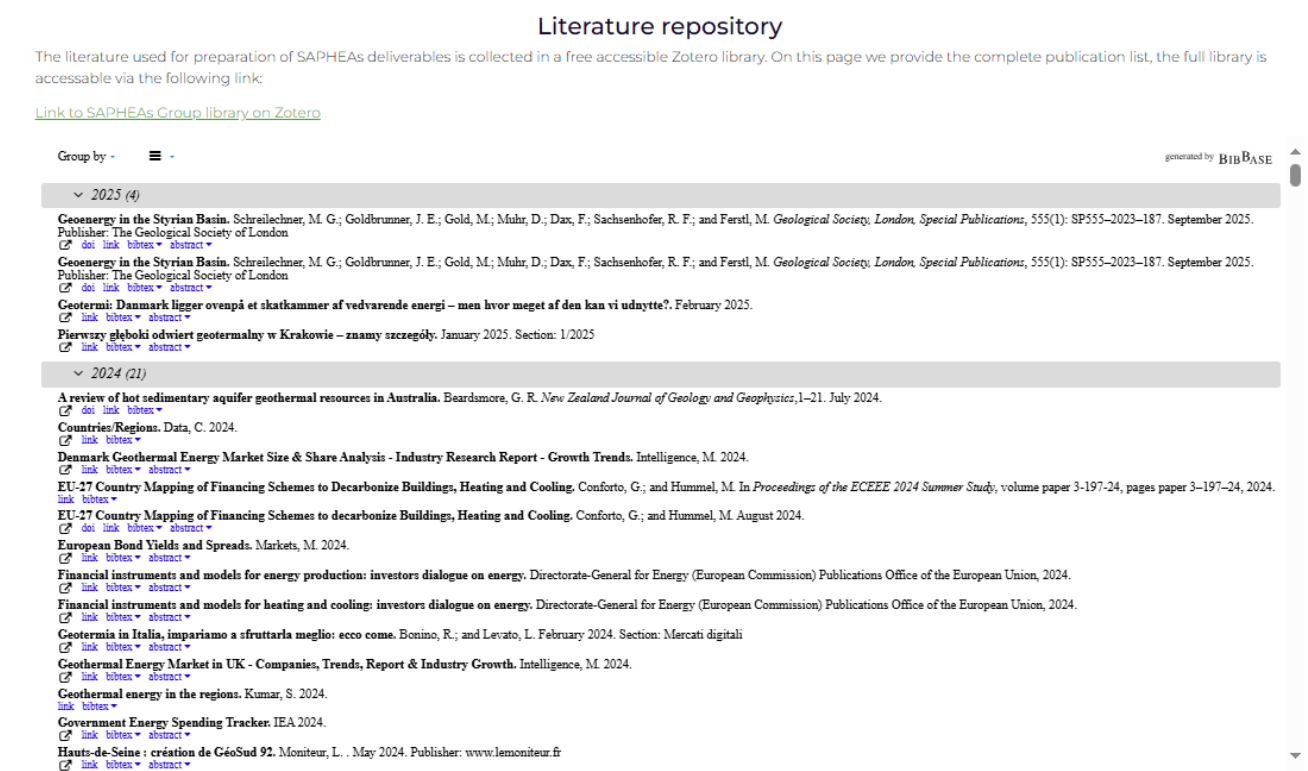


Figure 3: SAPHEA literature repository

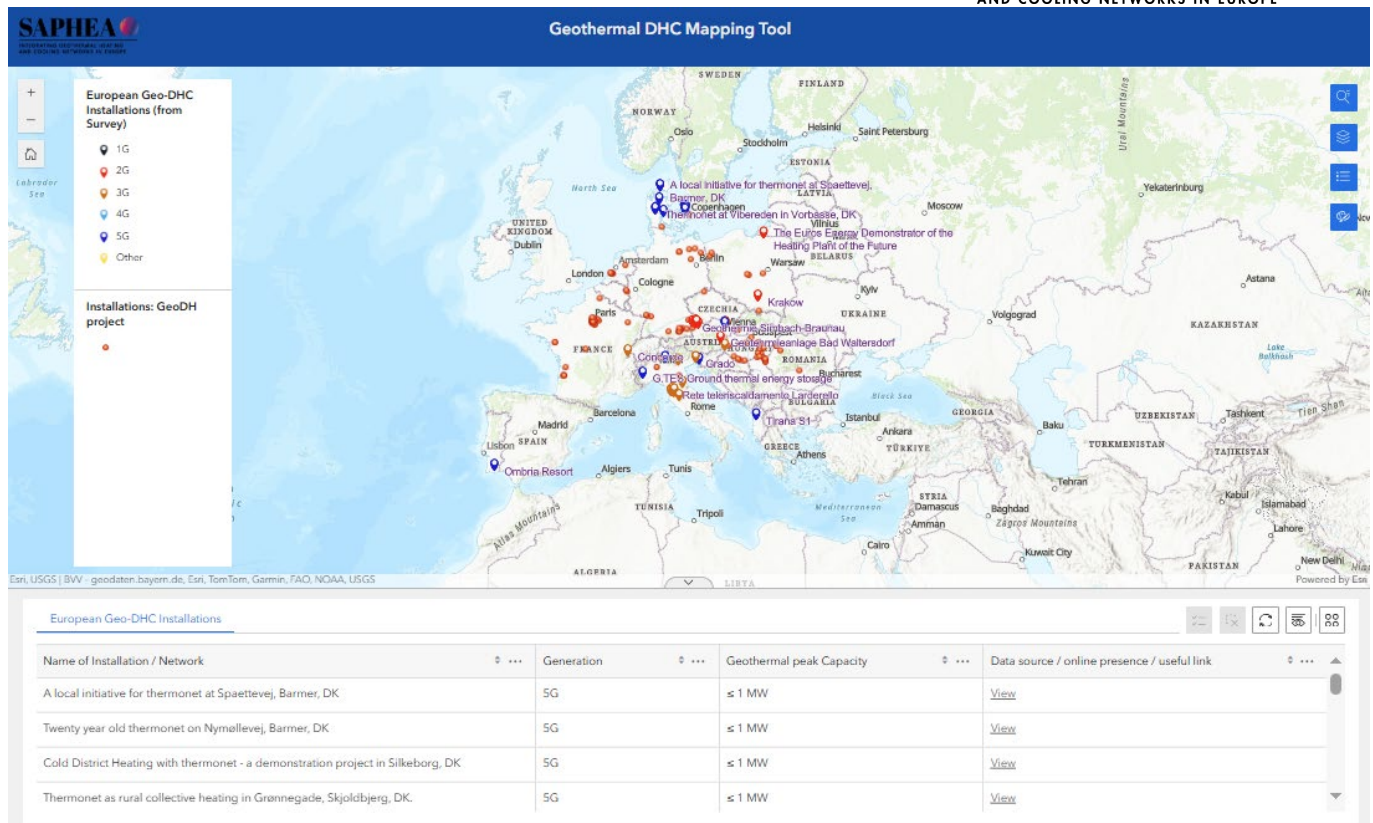


Figure 4: SAPHEA geothermal DHC mapping tool

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S													
1	ID	Country	Level	Region	City	Scheme Name (EN)	Scheme Name (local)	Build- Eff	H&C- Eff	H&C- RES	DK	Ge- DHC	Cool	Resi- dential	Non-Resi- dential	Scheme Type	Main Link	Other Link	Start-End Year	Descrip												
2	1	Austria	National			Clean Heating for all	Sauber Heizen für Alle		Y	Y	(Y)	(Y)		Y		Grant/Subsidy	https://www.umweltfoerderung.at/		2021-ongoing (renewed biannually)	Fundin to sust registr 02.01.2 Clean t												
3	2	Austria	National			Climate-friendly district heating systems (Expansion and decarbonisation, Optimization measures)	Klimafreundliche Fernwärme (Ausbau und Dekarbonisierung, Optimierungsmaßnahmen)		(Y)	(Y)	Y	(Y)			Y	Grant/Subsidy	https://www.univie.ac.at/	https://www.univie.ac.at/	2022-ongoing	Fundin heating covers renewis combir primar fuel-re												
4	3	Austria	National			Deep Geothermal Energy Guideline	Leitfaden Tiefengeothermie				Y	(Y)	Y	(Y)	(Y)	Grant/Subsidy	https://www.klima.at/	https://www.klima.at/	2024	Fundin form o lump s Fundin Fundin 30 %, h inform for fun												
5	4	Austria	National			District heating connection ≥ 100 kW (for businesses and municipalities)	Nah-/Fernwärme Anschluss ≥ 100 kW (für Betriebe, für Gemeinde)				Y	(Y)	(Y)		Y	Grant/Subsidy	https://www.univie.ac.at/	https://www.univie.ac.at/	2022-ongoing	Fundin climate busine institut coveri boundi												
6	5	Austria	National			EIB Climate Action Programme Loan	EIB Climate Action Programme Loan	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)		Y	Debt financing	https://www.eib.org/	https://www.eib.org/	2021-ongoing	Fundin energy include some p												
7	6	Austria	National			Energy centers for internal heat and cold supply -	Energiezentralen zur innerbetrieblichen Wärme- und Kältebereitstellung		Y	(Y)	Y	(Y)	Y		Y	Grant/Subsidy	https://www.univie.ac.at/	https://www.univie.ac.at/	2022-ongoing	Fundin incorps of eligi associa												
8	7	Austria	National			Energy Communities	Energiegemeinschaften		Y	Y	Y	Y	Y	Y		Grant/Subsidy	https://www.univie.ac.at/	https://www.univie.ac.at/	2021-ongoing (renewed biannually)	Consul service with ar implem commu												
																					Public Schemes	Private Schemes	Lists	Mapping Sources	Indicators	Indicators Sources	Pivot	Correlation Matrix	CM Input	CM Results	Pics	+

Figure 5: SAPHEA mapping of financial instruments (EU27)

SAPHEA_D2.3_Pan-European_dataset_catalogue_V2

Classification	Content	Data
Geodesy	Elevation	NASA Earthdata
GeoHazards	Landslide risk	ESDAC
GeoHazards	Earthquake risk	EFEHR
Geology	Depth of aquifer	EGDI
Geology	Aquifer types	EGDI
Geology	Groundwater storage	EGDI

Figure 6: SAPHEA catalogue of spatial datasets

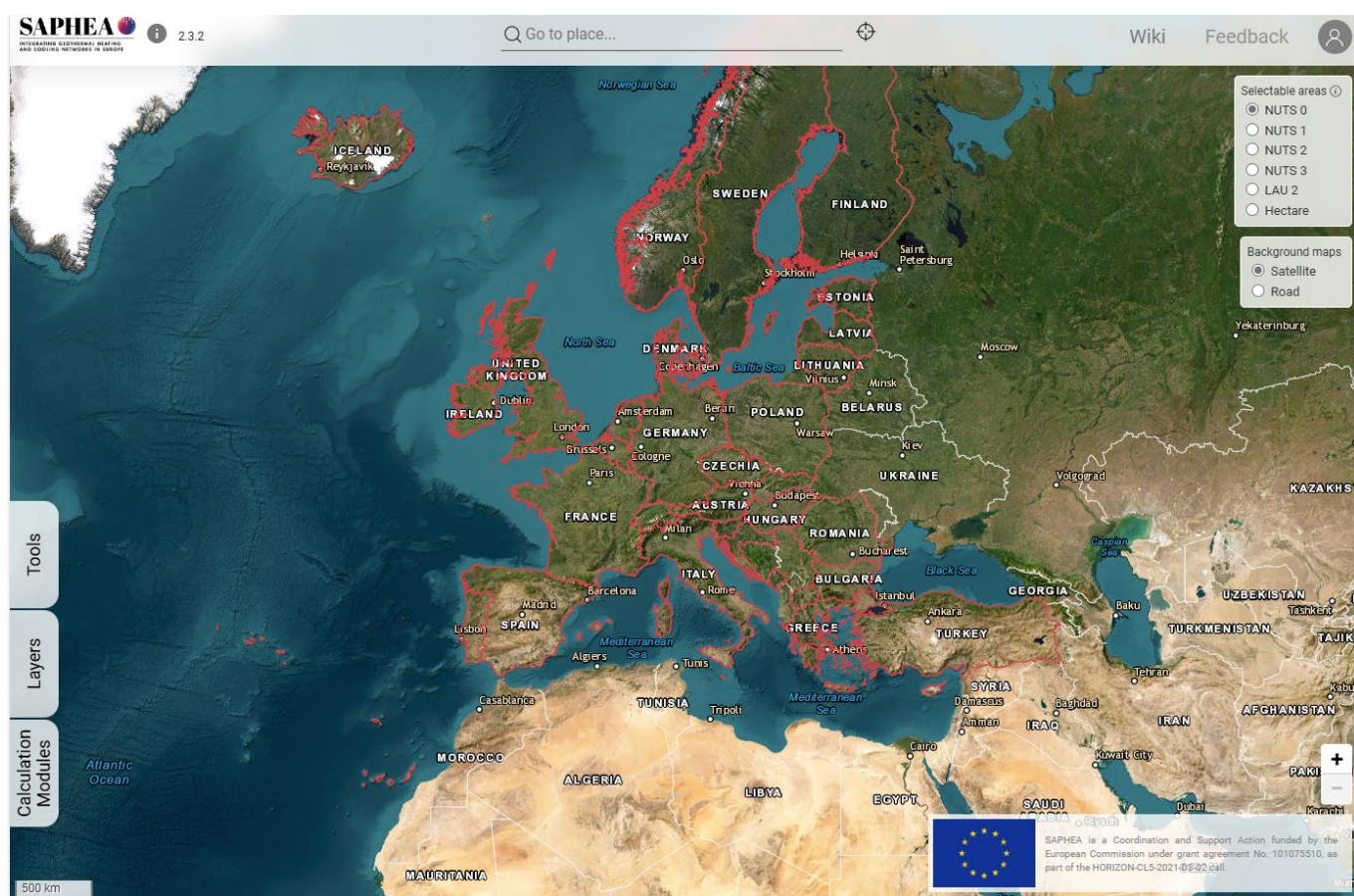


Figure 7: SAPHEA toolbox

SAPHEA Project Wiki

- Wiki Introduction >
- Datasets >
 - Pan-European dataset for Geothermal Energy planning
- Single Market Uptake Hub >
 - SAPHEA Market Uptake Hub
 - Gamebook
- SAPHEA Tool Overview and User Guide >
 - Key Capabilities
 - User Interface & Navigation
 - Core Functions
 - General Workflow
- Calculation Modules of the SAPHEA Tool >
 - District Heating and Cooling >
 - Supply >
 - Demand >
- Learning Center >
 - Training Material

Welcome to the SAPHEA Project Wiki 🤝

[Edit Page](#)

[Read Wiki](#)

[Edit Wiki](#)

- Read Wiki: <https://saphea-project.github.io/wiki/welcome-to-saphea/>
- Edit Wiki: <https://github.com/saphea-project/wiki/wiki>

Figure 8: SAPHEA project wiki



Figure 9: Gamebook

2. Social media communication channels

3.1. LinkedIn page

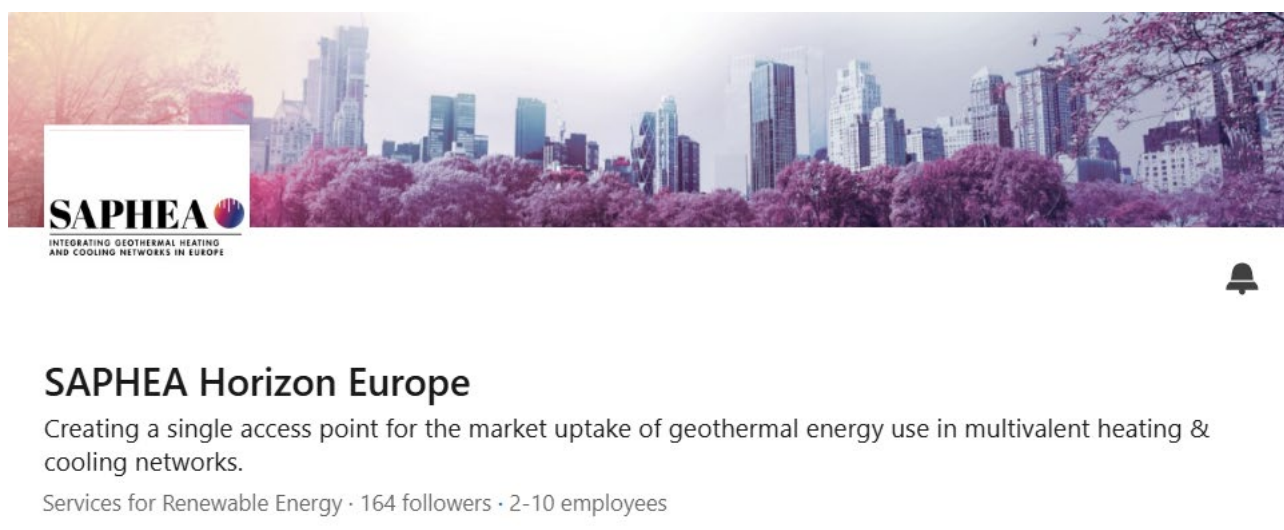


Figure 10: SAPHEA LinkedIn homepage

Join the [Community](#) and discuss with other experts

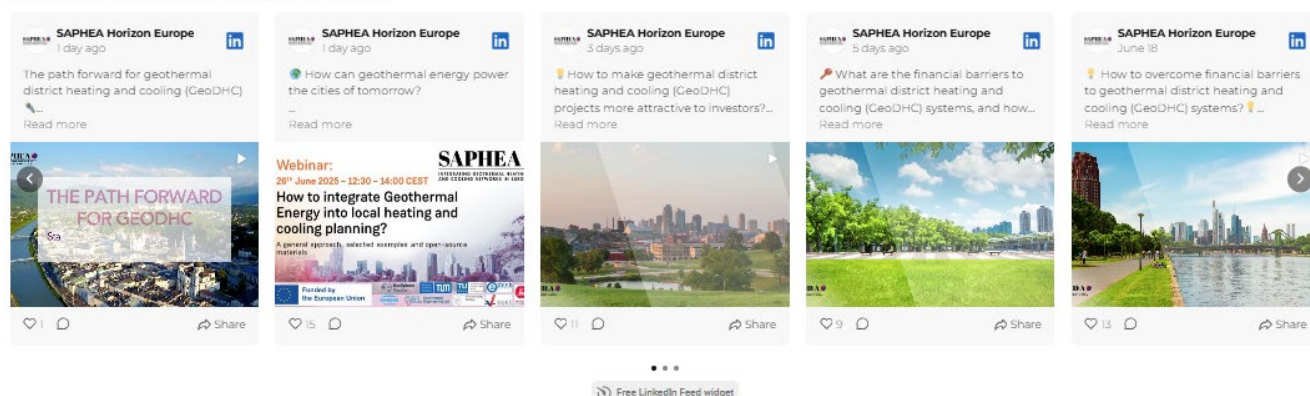


Figure 11: reel of LinkedIn posts as shown in the SAPHEA website

3.2. LinkedIn community



Figure 12: LinkedIn community homepage

3.3. Twitter/X

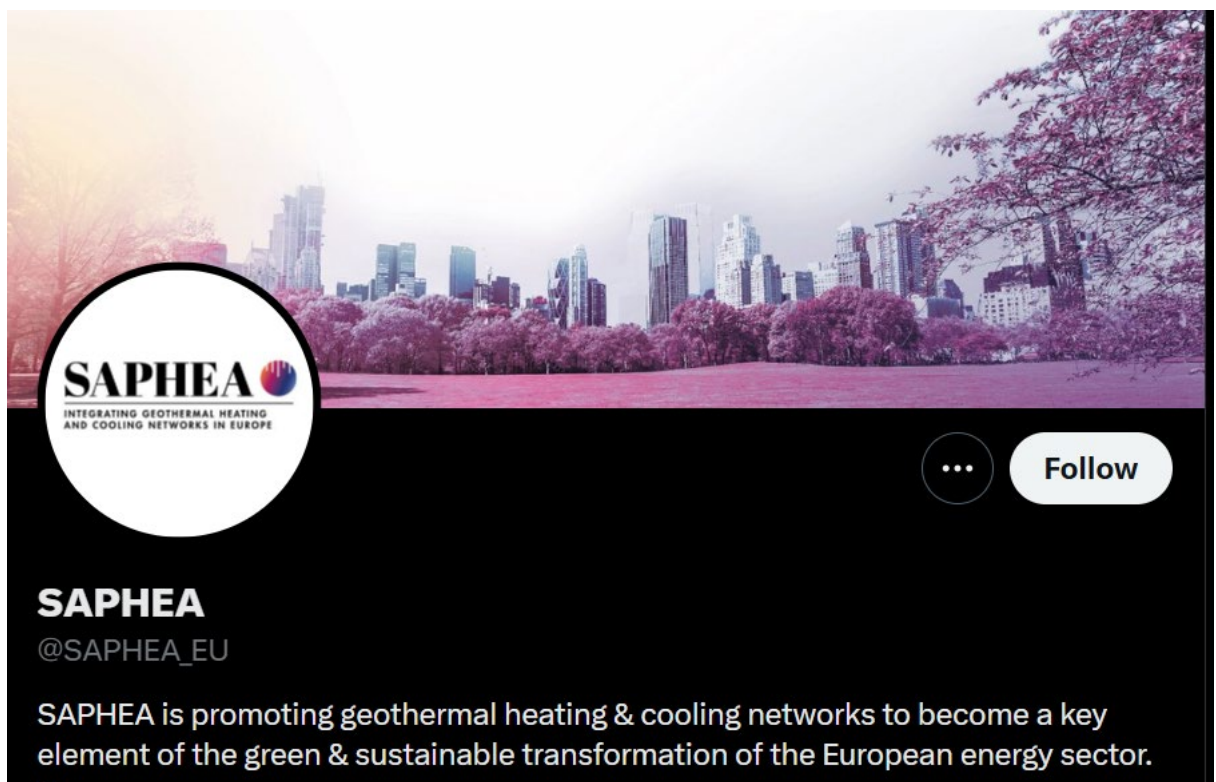


Figure 13: SAPHEA X homepage

Follow us on [X \(Twitter\)](#):

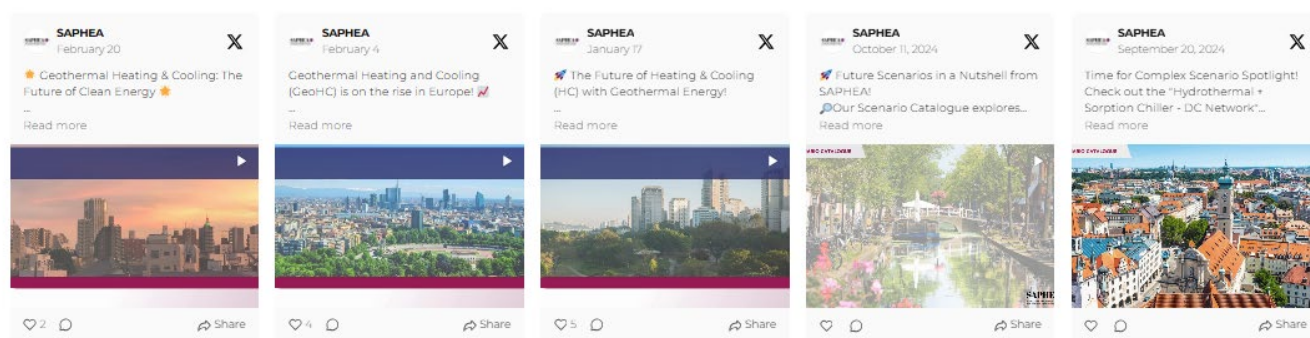


Figure 14: reel of X posts as shown in the SAPHEA website

4. Audiovisual content

Series of short video on scenario catalogue

1st blog series

First [video](#)¹ on scenario catalogues



¹ https://www.linkedin.com/posts/saphea-horizon-eu_explore-our-scenario-catalogue-developed-activity-7221423833000407043-Gg8p?utm_source=share&utm_medium=member_desktop&rcm=ACoAABuoP38BS61L3AH49mhX21DUbZhEUmlPke8

Figure 15: first video on scenario catalogues

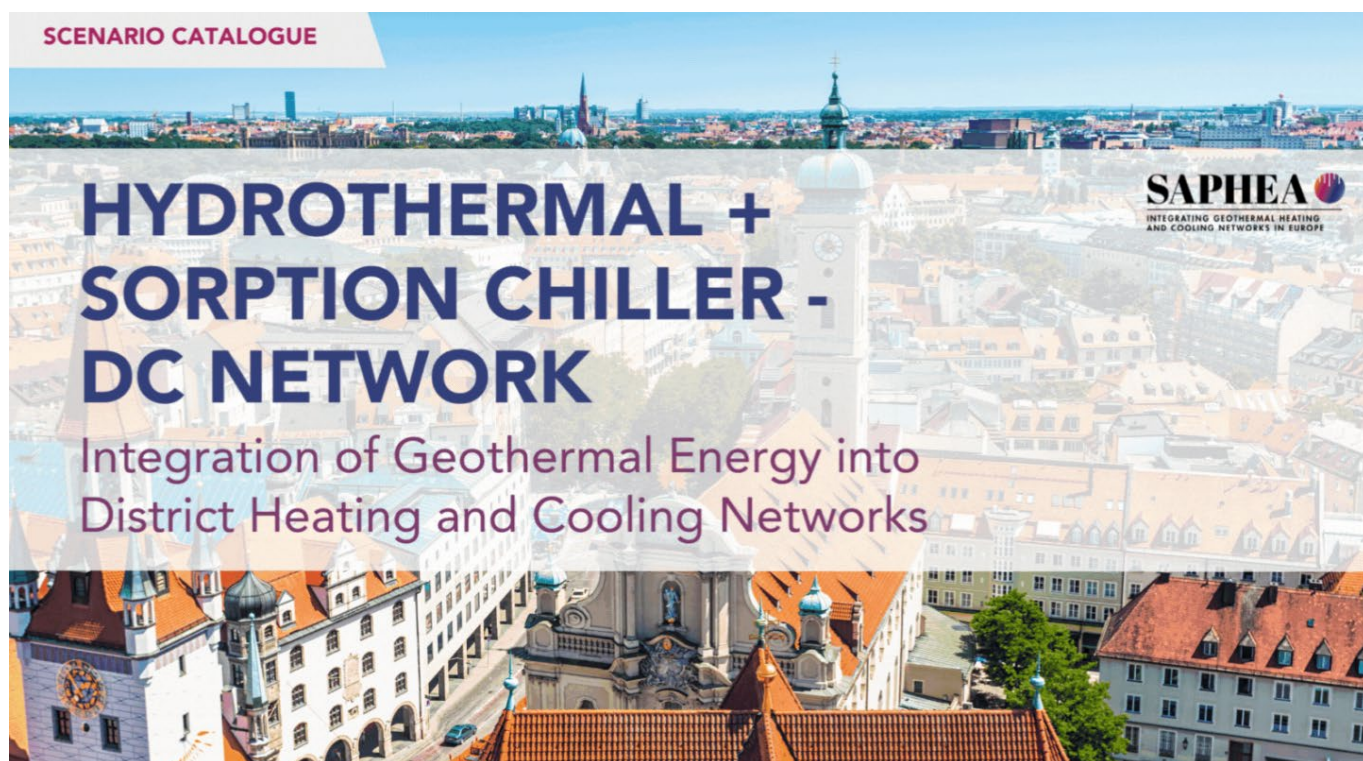


Figure 16: third video on scenario catalogue

2nd blog series

Series of short videos on key market drivers related to the implementation of geoHC networks

The first [video](#) ² on key market drivers on the implementation of geoHC network focused on what to expect from the report: (a) discover more innovative technologies to make geothermal more accessible, (b) learn about smart policies and strategies fueling geoHC growth, (c) see how thermal grids and smart cities are adopting geothermal solutions.

² https://www.linkedin.com/posts/saphea-horizon-eu_renewableenergy-geothermalenergy-smartcities-activity-7285957635688837120-NqAa?utm_source=share&utm_medium=member_desktop&rcm=ACoAABuoP38BS61L3AH49mhX21DUbZhEUmIPke8



Figure 17: First video on key market drivers on the implementation of geoHC networks

The [second](#) video ³ looks at key trends in smart cities and cross-sector growth.



Figure 18: Second video on key market drivers on the implementation of geoHC networks

The third [video](#) ⁴ focuses on the drivers of growth: (a) tech innovations, (b) supportive policies, (c) shifting socio-economic demand.

³ https://www.linkedin.com/posts/saphea-horizon-eu_geothermalenergy-smartcities-renewableenergy-activity-7291039902857592832-yCGv?utm_source=share&utm_medium=member_desktop&rcm=ACoAABuoP38BS61L3AH49mhX21DUbZhEUmIPke8

⁴ https://www.linkedin.com/posts/saphea-horizon-eu_geothermalenergy-energytransition-cleanenergy-activity-7292487327870795776-YI60?utm_source=share&utm_medium=member_desktop&rcm=ACoAABuoP38BS61L3AH49mhX21DUbZhEUmIPke8



Figure 19: third video on key market drivers on the implementation of geoHC networks

The fourth [video](#)⁵ dives deep into the prospects for geoHC: (a) decarbonisation and climate targets, (b) increased investment, (c) regional initiatives.



Figure 20: fourth video on Key market drivers related to the implementation of geoH&C networks

3rd blog series

⁵ https://www.linkedin.com/posts/saphea-horizon-eu_geohc-geothermalnow-cleanenergy-activity-7298262316595204096-DsUN?utm_source=share&utm_medium=member_desktop&rcm=ACoAABuoP38BS61L3AH49mhX21DUbZhEUmIPke8

Series of short videos on the Status Report on Financial Mechanisms for geoDHC networks

The "Status Report on Financial Mechanisms for GeoDHC Networks" has shed light on the important steps that must be taken to expand GeoDH systems across Europe and unlock their decarbonisation potential. To promote the key findings of this report, a series of videos (4 short videos) has been published on LinkedIn, each addressing a specific aspect of financial mechanisms for geoDHC networks.

The first [video](#) ⁶ (18 June 2025) introduces the report and the elements that are addressed within it.



Figure 21: First video on the Status report on Financial Mechanisms for geoDHC networks

The second [video](#) ⁷ (20 June 2025) focuses on the three key barriers to securing funding: high upfront costs, perceived risks, regulatory uncertainty.

⁶ https://www.linkedin.com/posts/saphea-horizon-eu_geodhc-cleanenergy-geothermal-activity-7341082138735173632-Cmn5?utm_source=share&utm_medium=member_desktop&rcm=ACoAABuoP38BS61L3AH49mhX21DUbZhEUmIPke8

⁷ https://www.linkedin.com/posts/saphea-horizon-eu_geodhc-renewableenergy-geothermal-activity-7341770548336549889-jZSe?utm_source=share&utm_medium=member_desktop&rcm=ACoAABuoP38BS61L3AH49mhX21DUbZhEUmIPke8

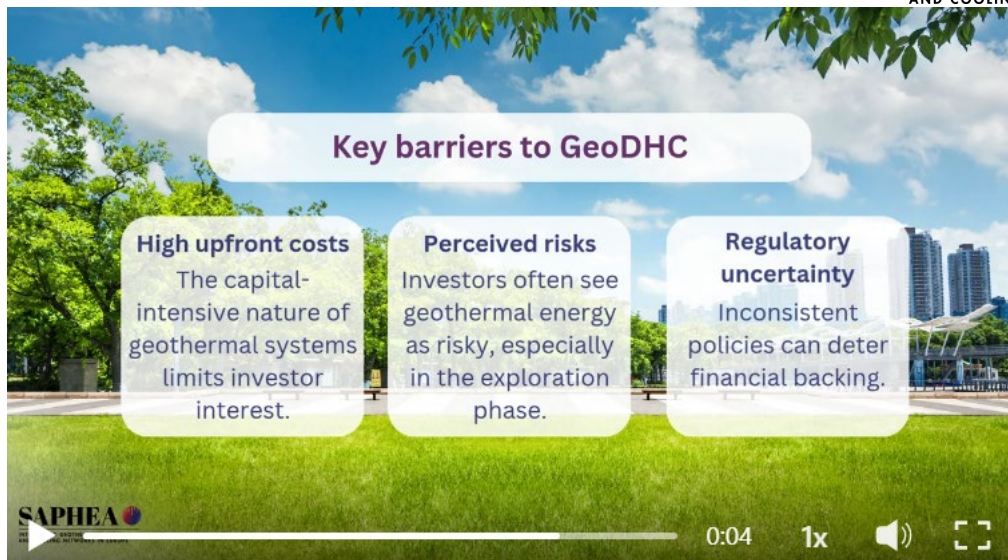


Figure 22: Second video on the Status report on Financial Mechanisms for geoDHC networks

The third [video](#)⁸ (23 June 2025) addresses key de-risking mechanisms that have been considered within the report.

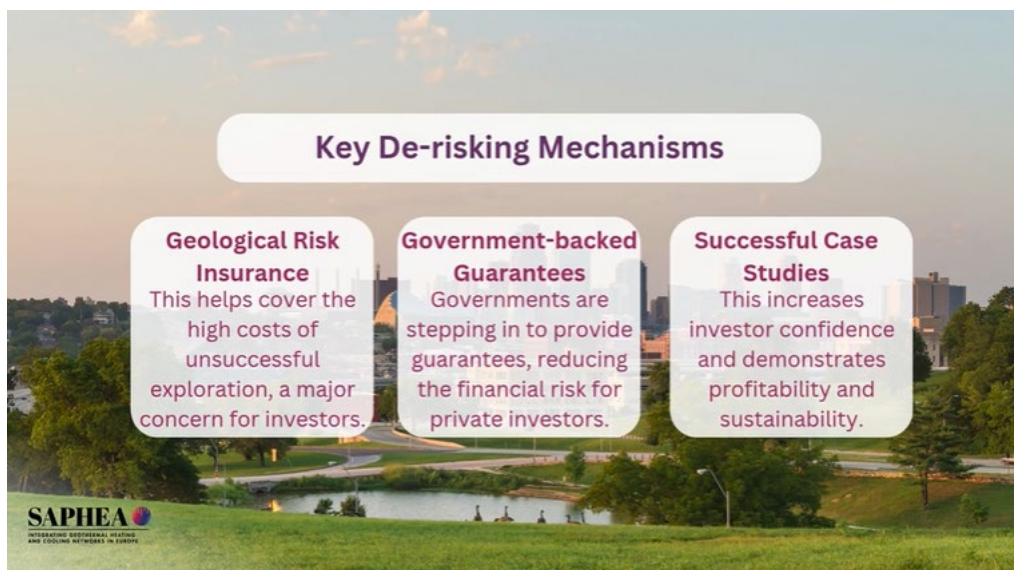


Figure 23: Third video on the Status report on Financial Mechanisms for geoDHC networks

The fourth [video](#)⁹ (24 June 2025) focuses on the measures that are needed to fully unlock the potential of geoDHC systems.

⁸ https://www.linkedin.com/posts/saphea-horizon-eu_geodhc-riskmitigation-geothermalenergy-activity-7342808666925928449-ebCM?utm_source=share&utm_medium=member_desktop&rcm=ACoAABuoP38BS61L3AH49mhX21DUbZhEUmlPke8

⁹ https://www.linkedin.com/posts/saphea-horizon-eu_energytransition-geodhc-climateaction-activity-7343295601322659841-oNDb?utm_source=share&utm_medium=member_desktop&rcm=ACoAABuoP38BS61L3AH49mhX21DUbZhEUmlPke8



Figure 24: Fourth video on the Status report on financial mechanisms for geoDHC networks

SAPHEA video on business models for geoHC networks in Europe

This video ¹⁰ showcases the innovative business models that have been analysed in the Reports on the Status of business models relevant for geoHC and Blueprints for business models.



Figure 25: SAPHEA video on business models

¹⁰ <https://gogeothermal.eu/projects/saphea/>

5. Webinars, hybrid events

Project results have been disseminated during physical and virtual events. Regarding digital media content, during the first phase of the project, webinars have been organized to collect data for WP2,3,4 and 5 and the to promote results from these work packages.

For the 2nd phase of the project webinars and hybrid events were organized to promote all results from SAPHEA project:

Italian dissemination hybrid event: Geothermal Energy for District Heating: Discover the Results of the SAPHEA Project (June 2025)

On 6 June, the final event of the European SAPHEA project took place in Italy, with the option to join online. The event showcased tools and results supporting the integration of geothermal energy in district heating and cooling (DHC) networks. Experts presented scenario catalogues, datasets, and open-access resources developed to help cities design low-carbon heating strategies.



Figure 26: Cover picture of SAPHEA event: la geotermia per il teleriscaldamento/raffrescamento risultati del progetto europeo "SAPHEA" (June 2025)

SAPHEA online workshop: How to integrate Geothermal Energy into local heating and cooling planning? (June 2025)

The workshop aimed to show the variety of options to integrate geothermal energy into H&C networks, how geothermal energy can be integrated into local H&C planning activities in exemplary cities, and to showcase available open-source materials to be used in local H&C planning.

The target group of the webinar are persons working on the H&C decarbonisation in cities across Europe, like persons in city administrations, (local and regional) energy agencies, H&C planners and consultants, as well as research, NGOs and other interested persons.

Date: 26 June 2025, 12:30-14:00



Webinar:
26th June 2025 – 12:30 – 14:00 CEST

How to integrate Geothermal Energy into local heating and cooling planning?

A general approach, selected examples and open-source materials

SAPHEA
INTEGRATING GEOTHERMAL HEATING
AND COOLING NETWORKS IN EUROPE

Funded by the European Union

GeoSphere Austria, Technical University of Munich, TUM, TU WIEN, TECHNISCHE UNIVERSITÄT WIEN, eThink, ENGIE Solutions, GEL Geothermal Engineering Ltd, VIA University College, EGEC, UNIVERSITÀ DI TORINO, AGH



Project SAPHEA
Overview and Market Uptake hub

Anna Katharina Brüstle / 26.6.2025

SAPHEA
INTEGRATING GEOTHERMAL HEATING
AND COOLING NETWORKS IN EUROPE

Participants: Anna Brüstle, Brives Jacques, Lazaros G. Arestis, Kök, Ali

Figure 27: Cover of the SAPHEA workshop: How to integrate geothermal energy into local heating and cooling planning (June 2025)

SAPHEA webinar: Explore the SAPHEA Tools and Market Uptake Hub for Geothermal DHC (June 2025)

This webinar aimed at showcasing SAPHEA tools and the Market Uptake Hub.

Date: 26 June 2025, 14:30-15:30

Recording available here: [Explore the SAPHEA Tools and Market Uptake Hub for Geothermal DHC – Egec](#)

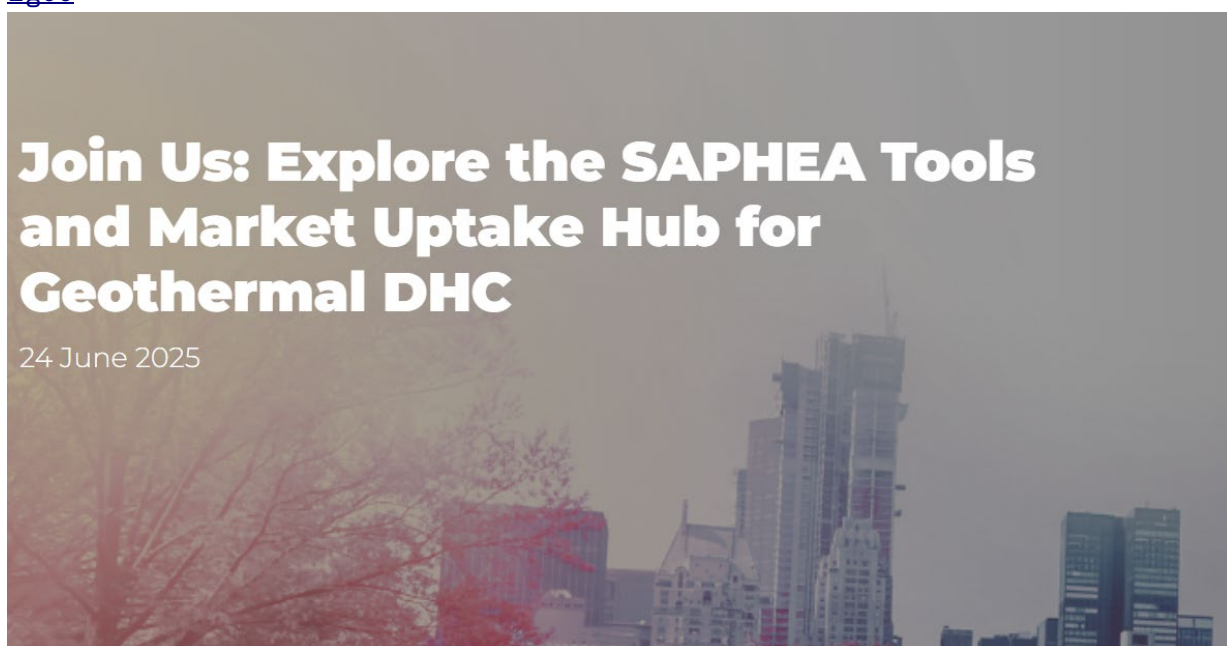


Figure 28: SAPHEA webinar: Explore the SAPHEA tools and market uptake hub for geothermal DHC (June 2025)

6. Newsletters

A total of 4 communication newsletters have been released. All 4 newsletters are available on the website: <https://gogeothermal.eu/geothermal-dhc-market-uptake-hub/knowledge-base/>



Figure 29: Newsletter 1¹¹



Figure 30: Newsletter 2¹²

¹¹ [SAPHEA_Newsletter_final](#)

¹² gogeothermal.eu/wp-content/uploads/2025/07/SAPHEA_Newsletter_2.pdf



Figure 31: Newsletter 3¹³



Figure 32: newsletter 4 ¹⁴

¹³ [SAPHEA_Newsletter_May](#)

¹⁴ [SAPHEA_Newsletter_June](#)