



1st Joint mobilization and mutual learning (MML) online workshop

"Sustainable Heating & Cooling Solutions for Industries and District Heating"

Date: 21 October 2025 Duration: 3 hours

Time: 10:00 CET

Organizational Committee: GEOSYN in collaboration with Geo-Cluster partner projects

The 1st Joint Mobilization and Mutual Learning (MML) Workshop is organized by the GEOSYN project in collaboration with GEOS-Techis, GEOFLEXHEAT, FlexGeo, TREASURE, HOCLOOP, USES4HEAT, INTERSTORES, URGENT, CoolLIFE, and RE-WITCH as part of the Geo-Cluster initiative.

This event aims to foster knowledge sharing, cross-project collaboration, and mutual learning, with a strong focus on innovative sustainable heating and cooling solutions for industrial applications and district heating. Key themes include geothermal energy, thermal energy storage, advanced heat pump technologies, and their policy and market integration pathways.

The workshop forms part of a broader effort to accelerate the deployment of clean heat solutions across Europe and to support the decarbonization of energy systems in line with EU climate goals..

Geo-Cluster







"Sustainable Heating & Cooling Solutions for Industries and District Heating"

Workshop Agenda 21 October 2025 - 10.00 CET Presentation: max 10 min

TIMING	PRESENTATION	SPEAKER
10:00 – 10:10	Welcome and Introduction	
10:10 – 11:30	THEMATIC SESSION 1	
	Geothermal Innovations and Advanced Thermal Energy Storage for Industrial Decarbonization	
10:10 – 10:20	From Earth to Industry: Geothermal Solutions for Sustainable Heating and Cooling	GEOSYN
		LORENZO TALLURI, PhD, Researcher, University of Florence, Italy
10:20 – 10:30	A general presentation of the GeoS-TECHIS project	GEOS-TECHIS
		ANXO PARDIÑAS, itg technology centre
10:30 – 10:40	Development of a reduced-order dynamic model for large-scale seasonal thermal energy storage applications	INTERSTORES
		MICHAEL BAYER, Research Associate, HSLU (Lucerne
		University of Applied Sciences and Arts - Institute of Building
		Technology and Energy IGE), Switzerland
40.40.40.50	Hank has and industrial and discovered the smaller	
10:40 – 10:50	Heat-to-cold industrial solutions (advanced thermally- driven industrial cooling technologies based on	RE-WITCH ANDREA FRAZZICA, CNR
	ADsorption and ABsorption processes driven by an optimized mix of low-grade waste a6nd renewable sources)	ANDREA FRAZZICA, CNR
10:50 – 11:00	Implementation of an expanding thermal source	INTERSTORES
	network as a step towards a CO2-neutral industry	SIMON MÜLLER, PhD Fellow /
		Research Associate for Renewable Energy Systems, THI(Technische
		Hochschule Ingolstadt), Germany
11:00-11:10	Closed loop deep geothermal solution	HOCLOOP
		OLA VESTAVIK, Geotherma, Norway
11:10-11:20	Decarbonising Heat: How seasonal storage can power the clean energy transition	<u>USES4HEAT</u>
		CONNIE OCANDO, PhD Project Officer, Euroheat & Power
11:20-11:30	Q&A	
11:30-11:40	Coffee Break	





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TIMING	PRESENTATION	SPEAKER
11:40 – 13:00	THEMATIC SESSION 2	
	Methodologies, Prototypes, and Policy Outlook of Clean Heat Solutions	
11:40 – 11:50	Preliminary dynamic modelling of the GEOSYN high	GEOSYN
	temperature heat pump and its application in rubber Industry	VAISHAK SOMASUNDARAM, Postdoc, Institute of Mechanical and Electrical Engineering / SDU Mechatronics (CIM), University of Southern Denmark, Sønderborg
11:50 – 12:00	The GeoS-TECHIS prototype for industrial heating and cooling	GEOS-TECHIS
		KRZYSZTOF BANASIAK, SINTEF
12:00 – 12:10	Geothermal exploration solutions for urban context (Sustainable and affordable URban Geothermal Exploration Novel Technologies and workflows)	URGENT
		VIRGINIE HARCOUËT-MENOU, VITO (Flemish Institution for Technological Research)
12:10 – 12:20	LCA and SLCA methodology definition for decarbonization projects in industries	GEOS-TECHIS
		ELOY ÁLVAREZ and DANIEL ALIAS, LEITAT
12:20 – 12:30	Clean Heat Solutions: a market and policy outlook	GEOFLEXheat
		MARTINA BATTOCCHIO, European Heat Pump Association (EHPA)
12:30- 13:00	Q&A and Closing remarks	



Geothermal Heating & Cooling for Industry

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