

# webinarseries heat storage

23 november – 14 december  
weekly on thursdays 15.00 – 16.00

# webinarreeks warmteopslag



## Webinar series Large Thermal Heat Storage

Session 1: Task39 + HT-ATES  
23 November 2023

# Webinar series: Large Thermal Heat Storage

- Welcome by the host: Bas Godschalk of IF Technology
- Webinars supported by:



- Program IEA – Energy Storage (ES) – Task39

IEA-ES is the Technology Collaboration Program (TCP) from the International Energy Agency (IEA) focused on Energy Storage (ES)

IEA-ES Task 39 is the group of experts working on LTES for DH within IEA-ES TCP



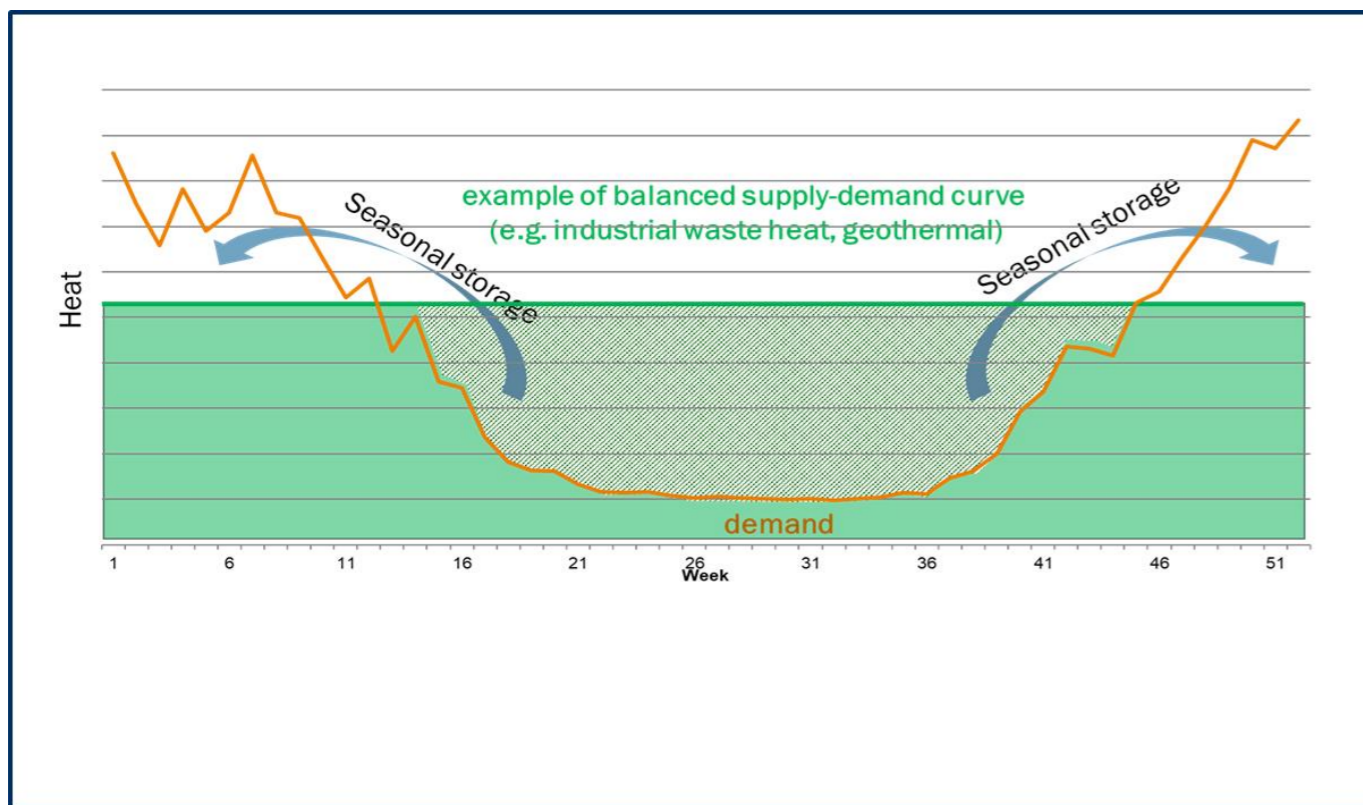
# Webinar series: Large Thermal Heat Storage

## Guidelines for the webinar:

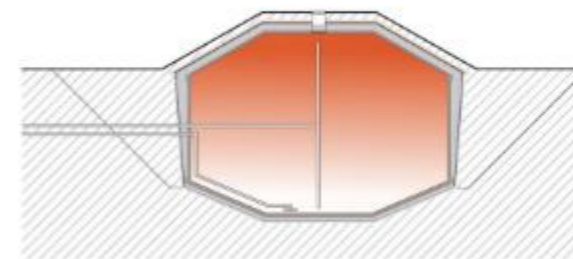
- We have disabled the cameras and mics.
- You can drop your questions in the Q&A box at the bottom of your screen. The chat function is not working.
- We will not respond on a digital raised hand.
- The webinars will be recorded and become available afterwards.
- Factsheets of the four technologies will become available after the final session.
  
- Enjoy!

# IEA-ES-Task 39

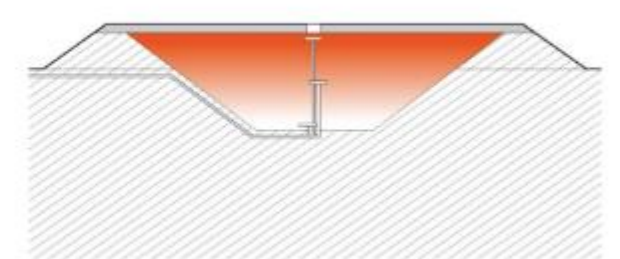
- Heat transition
- Thermal Energy Storage (TES)
- District Heating (DH)



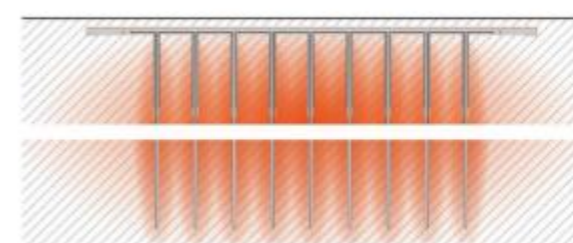
Tank thermal energy storage (TTES)



Pit thermal energy storage (PTES) Solites®



Borehole thermal energy storage (BTES)



Aquifer thermal energy storage (ATES)



# IEA-ES-Task 39

The **key objectives** of the Task are:

- Definition of a number of representative application scenarios, the connected boundary conditions and Key Performance Indicators
- Improve LTES materials and materials performance measurement methods
- Prepare guidelines for obtaining proper water quality
- Compare the performance and accuracy of simulation models for LTES
- Derive validation tests for LTES simulation models
- Generate information packages for decision makers and actively disseminate the information

For these purposes, **four subtasks** work on the content subjects:

- Subtask A: Application Scenarios, Assessment of Concepts, Integration Aspects
- Subtask B: Components and Materials Database
- Subtask C: Round robin simulation
- Subtask D: Knowledge base for decision makers

# The experts of IEA-ES Task 39



# Agenda for today

Time	Topic
15h00 – 15h05	Welcome and introduction by host Bas Godschalk – IF Technology
15h05 – 15h20	Task 39 Wim van Helden - AEE Introduction and background about Task 39
15h20 – 15h25	Q&A session
15h25 – 15h50	HT-ATES Nico Franco Pinto – IF Technology HT-ATES – Concept – integration – technical and legal challenges
15h50 – 15h55	Q&A session
15h55 – 16h00	Closing and agenda next sessions

# Agenda for this webinar series

Date	Topic	Speaker
Thu 23 November 2023 (3-4PM)	Task39	Wim van Helden – EAA INTEC
	HT-ATES	Nico Franco Pinto – IF Technology
Thu 30 November 2023 (3-4PM)	HT-BTES	Adib Kalantar – MuoviTech
	HT-BTES	Julian Formhals – Vattenfall DE
Thu 7 December 2023 (3-4PM)	PTES	Morton Vang Bobach – BobSol
	PTES	Jonas Sorensen – Aalborg CSP
Thu 14 December 2023 (3-4PM)	TTES	Ruud van den Bosch – Groenewarmte
	TTES	Geoffroy Gauthier - PlanEnergi



energy storage

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- Subtask D: Knowledge base for decision makers

Subtask A: Application Scenarios, Assessment of Concepts, Integration Aspects

Subtask B: Components and Materials Database

Subtask C: Round Robin Simulation

Subtask D: Knowledge Base for Decision Makers

# Task 39 – Wim van Helden

Introduction and background about Task 39

# Q&A Task 39

- Task 39 – Wim van Helden





# HT-ATES– Nico Franco Pinto

HT-ATES – Concept – integration – technical and legal challenges

# Q&A HT-ATES

- HT-ATES – Nico Franco Pinto



# Closing

- Recorded session will become available after the series
- Next sessions are:

Date	Topic	Speaker
Thu 30 November 2023 (3-4PM)	HT-BTES	Adib Kalantar – MuoviTech
	HT-BTES	Julian Formhals – Vattenfall DE
Thu 7 December 2023 (3-4PM)	PTES	Morton Vang Bobach – BobSol
	PTES	Jonas Sorensen – Aalborg CSP
Thu 14 December 2023 (2-3PM)	Energy Storage	IEA-ES Energy Storage OnSeminar
Thu 14 December 2023 (3-4PM)	TTES	Ruud van den Bosch – Groenewarmte
	TTES	Geoffroy Gauthier - PlanEnergi

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*Dutch organisations in need of more information on the IEA Energy Storage TCP: reach out to [stan.vandenbroek@rvo.nl](mailto:stan.vandenbroek@rvo.nl)*

Thank you very much for your attention and hope to see you next time:

Thursday 30 November 2023, 15h00