

Thermal Energy Storage Industry Workshop

Materials and Components for High-T sensible, Phase Change and Thermochemical Energy Storage Technologies

Industries working on the development of thermal energy storage technologies and products experience the challenges in optimise material and component performance for their thermal storage applications. With this workshop, we would like to bring these industries in contact with the experts working on thermal energy storage materials and components in so-called Tasks of the International Energy Agency.

In a series of short presentations, experts will highlight recent achievements in the development of materials and components for thermal energy storage for high-temperature sensible, phase change and thermochemical energy storage technologies. These presentations give ground to a discussion with the industry experts: what are their challenges in their present development and their wishes for better development and innovation?

We would be delighted if you, working in a thermal energy storage industry, decide to share your thoughts, challenges, and wishes at the workshop.

The workshop is free of charge and will be one day prior to the Eurosun2026 Conference. Thermal Energy Storage is one of the main topics of the conference, making it very worthwhile to also attend the Eurosun2026.

More information and registration can be found on <https://www.eurosunconference.org/>

Date: 14 September 2026, Freiburg, Germany

Time: 13:00 – 16:00 CEST

Venue:

Room 1136

University Freiburg – KGI (Kollegiengebäude “Academic Building”)

Platz der Universität 3, 79098 Freiburg im Breisgau, Germany

Registration

Please send a short e-mail with name and affiliation to w.vanhelden@aee.at and Christoph.Rathgeber@zae-bayern.de

Program

Time	Part	Presenter
13:00	Welcome and program	Wim van Helden, Christoph Rathgeber
13:10	Presentations (10-minute pitches, giving room to questions and ideas from the audience)	
	TES material development and testing	Christoph Rathgeber, ZAE Bayern, DE
	Some examples of TES applications from Task74	Wim van Helden, AEE INTEC, AT Jorge Salgado Beceiro, SINTEF, NO
	Use cases of Power-to-Heat and Heat integrated Carnot Batteries	Kevin Ludwig, DLR, DE
	Performance of an ice storage coupled to heat pumps	Christian Wagner, FHOÖ, AT
	PCM-Based Heat Pump Water Heater Prototypes: Testing under EN 16147 DHW Conditions	Tilman Barz, AIT, AT
14:45	Coffee/tea break	
15:00	Optimal integration of Thermal Energy Storage (TES): technological capabilities and key challenges in system behaviour for the energy transition	Ana Lazaro, Univ. of Zaragoza, ES
	Shallow insulated seasonal horizontal UTES for agricultural sector	Diane Le Roux, Univ. Bretagne Sud, FR
	Possibilities and chances for State of Charge determination	Gerald Englmaier, DTU, DK
	Production up-scaling and its challenges focusing on salt hydrate PCMs	Esther Kieseritzky, Rubitherm, DE
16:00	Closing	