Lucerne University of
Applied Sciences and Arts

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Engineering and Architecture

CC Thermal Energy Storage

Storage
Swiss Competence Centers
for Energy Research

In cooperation with the CTI
Energy funding programme
Swiss Competence Centers for Energy Research
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
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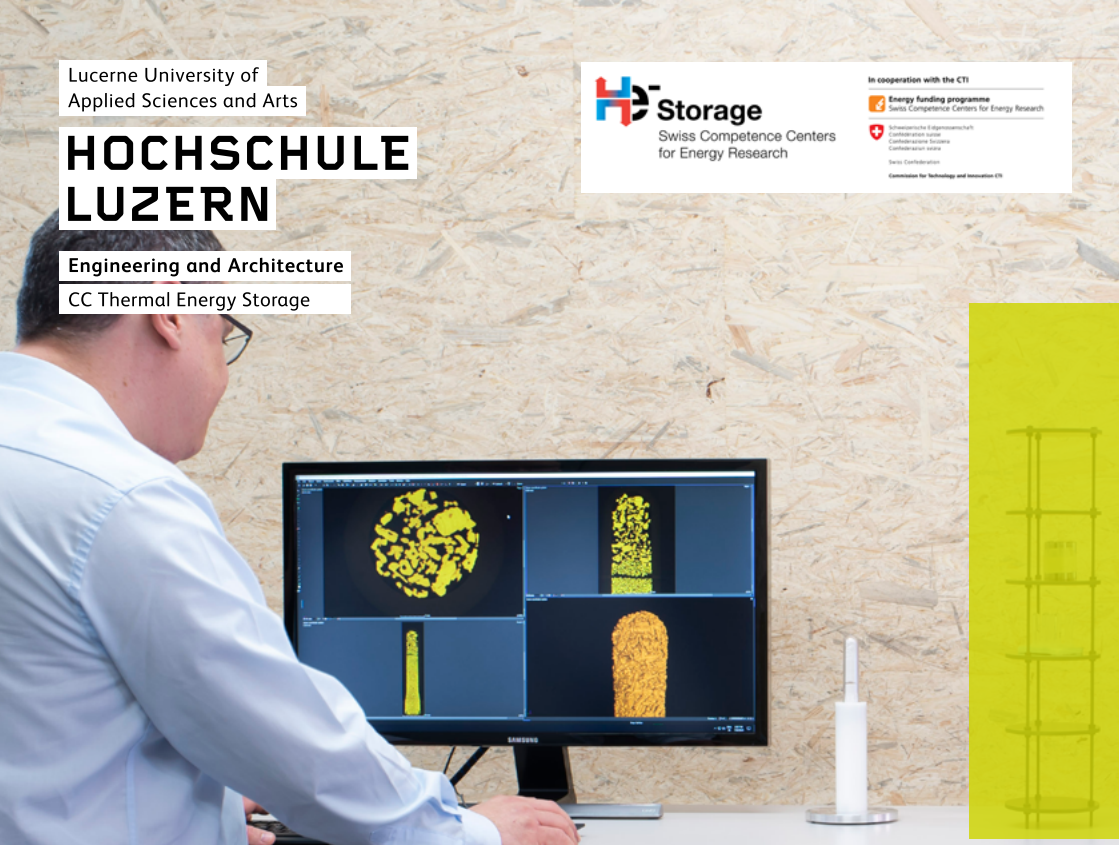
Commission for Technology and Innovation CTI



8th Swiss Symposium Thermal Energy Storage Online-Event

Friday, 22 January 2021

Lucerne School of Engineering & Architecture

FH Zentralschweiz

8th Swiss Symposium Thermal Energy Storage

On behalf of the Swiss Competence Center for Energy Research – Storage of Heat and Electricity (SCCER HaE), we are pleased to invite you to the 8th Swiss Symposium Thermal Energy Storage.

2020 marks the end of an important period of Swiss energy research, which was driven by the „Swiss Competence Centers for Energy Research (SCCER)“ funding and networks. The upcoming event will focus on national and international developments regarding Thermal Energy Storage in academia and industry during this period. It gives room for both reflection and envisioning ways towards a sustainable energy future.

At the symposium, stakeholders in thermal energy storage will meet enthusiasts from industry, utilities, building technology and academia. In addition to the interesting and stimulating talks, the event will provide panels, opportunities for discussions around common interests and an ideal networking platform to come up with innovative ideas and pioneer new solutions for thermal energy storage.

Program

08:00 **Arrival and Networking-Roundtables**

Testphase and Technical Support
Join with your coffee

08:30 **Welcome and introduction**

Jörg Worlitschek, Head Competence Center Thermal Energy Storage at HSLU

08:45 **Session I: Transforming the energy system**

Scenarios for the future energy systems in Switzerland and the role of energy storage
Gianfranco Guidati, Manager of the SCCER Supply of Electricity and the Joint Activity on Scenarios & Modeling at ETH Zurich

Swiss energy system assessment- Learnings and outlook
Martin K. Patel, Professor – Chair for Energy Efficiency at the University of Geneva

Social and spatial planning aspects of transformation processes
Ulrike Sturm, Professor – Head of the Institute of Sociocultural Development at HSLU

Water pit storage. Role in energy system, design and experience from Denmark.
Simon Furbo, Associate Professor at the Technical University of Denmark

THERMAL ENERGY STORAGE

09:40 **Break**

09:45 **Networking-Roundtables**

10:00 **Session II: Highlights of Swiss thermal storage research**

High-temperature heat storage: science and technology development
Sophia Haussener, Associate Professor – Head of Laboratory of Renewable Energy Science and Engineering at EPFL

Compressed Air Energy Storage in Switzerland: Current Status and Next Steps
Maurizio C. Barbato, Professor – Head of Thermo-Fluid Dynamics Laboratory at SUPSI

Low temperature heat storage: Increasing power and capacity
Anastasia Stamatiou, Head of Research Group Latent Energy Storage at HSLU

Developments in thermochemical heat storage
Luca Baldini, Head of Building Energy Systems and Technologies Group at Empa
Paul Gantenbein, Senior Researcher SPF at Ostschweizer Fachhochschule

10:55 **Break**

11:00 **Networking-Roundtables**

11:15 **Session III: Thermal storage in practice**

Thermal storage in domestic heat pumps
Morten Veis Donnerup, Co-founder and CEO of SUNTHERM

Compact thermal storage for increased PV self-consumption
Remo Waser, Co-Founder at Cowa Thermal Solutions AG

Energy Tower Schwyz
Florian Hemmerlein, Fachspezialist für Fernwärmenetze und Energieerzeugungsanlagen at ecocoach AG

Energiewende Bern - Rolle Geospeicher
Martin Jutzeler, Project Leader for System optimisation energy systems at Energie Wasser Bern

12:10 **Break**

12:15 **Networking-Roundtables**

12:30 **Plenary discussion**
Outlook and common possibilities

12:50 **Final round**

13:00 **End of the Symposium**

Information

Place of event:	ONLINE
Time:	08:30 – 13:00 Swiss Symposium Thermal Energy Storage
Costs:	Participation fee CHF 150.– Academics (incl. PhD) CHF 100.- *(The participation is free of charge for students, employees, and alumnis of the Lucerne University of Applied Sciences and Arts and members of the SCCER Heat and Electricity Storage. Registration is mandatory!)*
Registration:	Until 20 January 2021 on www.hslu.ch/sstes or by e-mail to tes@hslu.ch
Event Leader:	Prof Dr Jörg Worlitschek Institute of Mechanical Engineering and Energy Technology IME Head of Competence Center Thermal Energy Storage Lucerne School of Engineering and Architecture Technikumstrasse 21 CH-6048 Horw joerg.worlitschek@hslu.ch www.hslu.ch/tes
Contact:	Eva Odermatt, eva.odermatt@hslu.ch

Register now