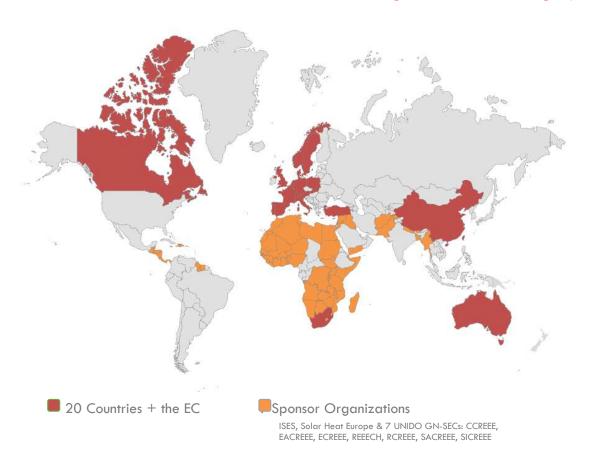
## What is the Solar Heating & Cooling (SHC) Programme?



- Project-focused international R&D collaboration since 1977
- 20 member countries, European Commission plus
  9 international organizations
- 200+ experts
- 7 running Tasks
  - 1. PVT Heating Systems
  - 2. Solar district heating
  - 3. High comfort integrated lighting
  - 4. Solar hot water for 2030
  - 5. Life cycle and cost assessment for heating and cooling technologies
  - 6. Solar photoreactors for the production of fuels and chemicals
  - 7. Compact Thermal Energy Storage Materials

IEA SHC Solar Academy https://task68.iea-shc.o



## What is the SHC Solar Academy?

The Solar Academy is a platform the SHC Programme uses to share and apply our findings and experiences from our Tasks with as many people as possible.

Our Tasks produce not only valuable **scientific results**, but also:

- training materials
- case studies, fact sheets and databases
- design, evaluation and assessment tools



IEA SHC Solar Academy https://task68.jea-shc.org

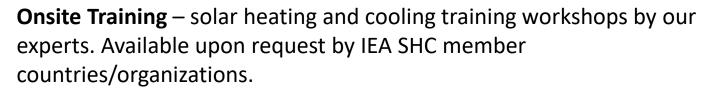
## What does the SHC Solar Academy offer?

#### Webinars – held quarterly and hosted by ISES

- Next webinar is June 24/26, 2025
- All webinars: 14.00 GMT and rebroadcast with live Q&A at 6:00 GMT

#### **Recording of previous Webinars**

https://www.iea-shc.org/solar-academy/webinars



- Past trainings: China, Cap Verde/ECREEE/West Africa, United Kingdom
- Next training: Solar drying and industrial cooling in SADC region at 18-22 August 2025



IEA SHC Solar Academy https://task68.iea-shc.org,

#### Where to find more information

Visit our website – www.iea-shc.org

Download a free SHC publication – www.iea-shc.org/publications











Follow us on social media –



IEA Solar Heating and Cooling Programme (group 4230381)



@ieashc2365

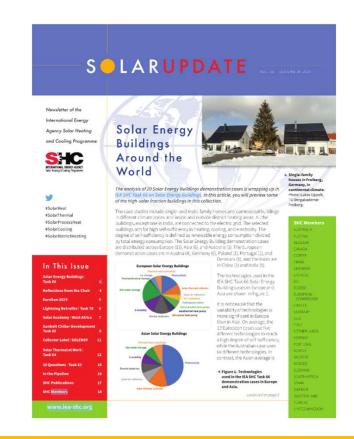
Have questions? Want to be part of an SHC Task? — secretariat@iea-shc.org

https://task68.iea-shc.org/ **IEA SHC Solar Academy** 

## Our flagship report



### Our semiannual newsletter



Free to download

https://www.iea-shc.org/solar-heat-worldwide

## If after the webinar, you want to join this SHC Task

1. Check if your country is an IEA SHC member

www.iea-shc.org/members www.iea-shc.org/organization-members

2. Learn more about the Task on the SHC website

www.iea-shc.org/tasks

3. Contact the Task Manager to discuss your interest & expertise

www.iea-shc.org/tasks



IEA SHC Solar Academy https://task68.iea-shc.org,

# Compact Thermal Energy Storage materials characterization: Advances in Materials and Performance Insights from IEA SHC Task 67

#### Wim van Helden

is working at the Austrian institute AEE INTEC since 2014 as a Senior Expert on Thermal Energy Storage. He has long experience in leading national and international research and demonstration projects, developing large scale Thermal Energy Storage and compact Thermal Energy Storage. He is Task Manager of Task 67 on Compact Thermal Energy Storage Materials Within Component Within Systems. Wim studied Technical Physics and did his PhD in Energy Technologies at the Eindhoven University of Technology in the Netherlands.



IEA SHC Solar Academy https://task68.iea-shc.org/



## Compact Thermal Energy Storage materials characterization techniques

#### **Dr Daniel Lager**

has been working in the field of Thermophysics and Thermal Analysis since 2007 and is head of the associated accredited laboratory at the AIT Austrian Institute of Technology since 2019. He received a PhD degree from Vienna University of Technology in 2017 for his dissertation which focused on thermophysical characterisation of heat storage materials. Parallel to his work at AIT, he is an external lecturer at the University of Applied Sciences Burgenland, Austria.



IEA SHC Solar Academy https://task68.iea-shc.org/



#### How to determine and categorise materials performance degradation

#### **Christoph Rathgeber**

is Deputy Head of the Thermal Energy Storage Group at the Bavarian Institute for Applied Energy Research (ZAE Bayern) in Germany. His main field of research are phase change materials based on salt hydrates. As part of several working groups within IEA SHC, he has investigated experimental methods for the characterization of PCM under application conditions.



IEA SHC Solar Academy https://task68.iea-shc.org/

