Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

energy storage
IEA Technology Collaboration Programme

IEA Research Cooperation
Part of open4innovation

Highlights of Energy Research 2021

Energy storage – key element to energy transition

Invitation

Date:
Tuesday, 23rd November 2021
9:30 – 15:00

Venue:
TUtheSKY
Getreidemarkt 9, 1060 Vienna
& online

Photo left: Research facility „Underground Sun Storage", Photo: RAG; right: High-pressure heat storage facility, Photo: Wien Energie/Ian Ehm

Highlights of Energy Research 2021
„Energy storage – key element to energy transition“

The increasing use of fluctuating renewable energy sources as well as decentralization of the energy generation call for new approaches for energy distribution and storage. Innovative technologies for energy storage and flexibilization of energy demand play an important role as key technologies on the way to a decarbonized energy system.

The event “Highlights of Energy Research” launched by the Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK) this year focuses on the topic “Energy storage”. Teun Bokhoven, Chairman of the IEA Energy Storage Technology Collaboration Programme (TCP), will provide insights regarding the activities of the Energy Storage TCP and talk about the importance of energy storage in the transformed global energy system. The market analysis of energy storages in Austria as well as various research projects are then presented, which cover a wide range of topics from battery development to large-scale heat storage and sector coupling. A panel discussion on the relevance of different energy storage technologies in decarbonisation strategies of three European countries will complete the programme.

The event will be held in conjunction with the IEA Energy Storage TCP’s international Exco-Meeting. The TCP is engaged in research, development, implementation and integration of energy storage technologies to optimise the energy efficiency of all kinds of energy systems and to accelerate the expansion of renewable energy technologies.

This event is aimed at energy experts and interested parties from industry, science, politics and administration.

Due to the pandemic there will only be a limited number of people who can participate at the event location. Therefore we will offer a Livestream for everyone who will attend online.

Current corona regulations: Entry tests or evidence of low epidemiological risk according to the “2.5G rule” (PCR-tested, vaccinated, recovered) are mandatory for events held in Vienna.

More informationen: nachhaltigwirtschaften.at/en/events/2021/20211123-highlights-energieforschung.php

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9:00 Welcome & Registration

9:30 Opening
Henriette Spyra, Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK) &
Theresia Vogel, Austrian Climate and Energy Fund

9:45 Session 1

Moderation: Elvira Lutter, Austrian Climate and Energy Fund

- **Importance of energy storage in the transformed global energy system – Activities of the IEA Energy Storage TCP**
  Teun Bokhoven, Chairman IEA Energy Storage TCP
- **Energy storage in Austria – target images, market development and recommendations for action**
  Heinz Buschmann, Austrian Climate and Energy Fund &
  Kurt Leonhartsberger, University of Applied Sciences Vienna
- **Research results on underground storage of hydrogen and conversion to methane**
  Stephan Bauer, RAG Austria AG

10:45 COFFEE BREAK

11:15 Session 2

Moderation: Christian Fink, AEE Intec

- **Solar power, even if the sun is not shining**
  Werner Friedl, Fronius International GmbH
- **Large-scale heat storage – technological developments in Austria and internationally**
  Wim van Helden, AEE INTEC and Manager of IEA Energy Storage Task 39
  & Josef-Dieter Deix, CEO Porr Construction
- **Battery storage for the urban distribution network**
  Elisabeth Hufnagl, Wiener Netze &
  Christian Messner, Austrian Institute of Technology

12:15 LUNCH BREAK

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13:15 Session 3

Moderation: Bianca Pfefferer, ÖGUT – Austrian Society for Environment and Technology

- **Carnot Batteries – Power storage for the MW range**
  Dan Bauer, German Aerospace Center
- **Integrated Multi-Energy Storages coupling the power network to the transportation sector**
  Marie-Gabrielle Macherhammer, HyCentA Research GmbH &
  Wolfgang Siegl, HyCentA Research GmbH
- **Flexible Sector Coupling**
  Andreas Hauer, CEO ZAE and Manager of IEA Energy Storage Task 35

14:00 Panel Discussion:

Energy storage in the transformed energy system – Are there different paths?

Moderation: Sabine Mitter, Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK)

- Georgina Morris, Department for Business, Energy & Industrial Strategy, UK
- Per Alex Sörensen, CEO Plan Energi, DK
- Christiane Brunner, Verbund, AT
- Ernst Höckner, Wien Energie, AT

15:00 END

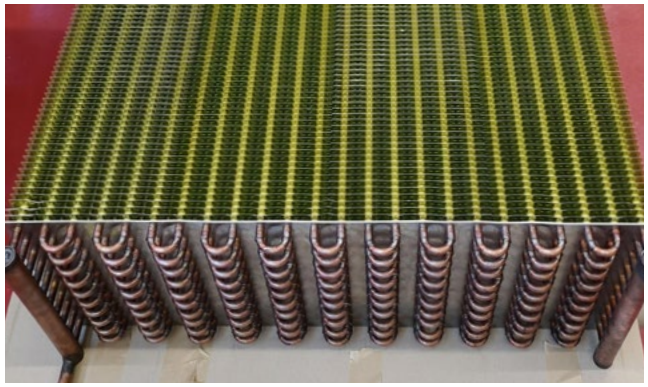

Photo: AEE INTEC

Photo: RAG/Karin Lohberger Photography

Highlights of Energy Research 2021
„Energy storage – key element to energy transition“

Venue

TUtheSKY
TU Wien, Building BA, 11th floor
1060 Vienna

Date

Tuesday
23rd November 2021
09.30 to 15.00

INFORMATION:

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Environment and Technology
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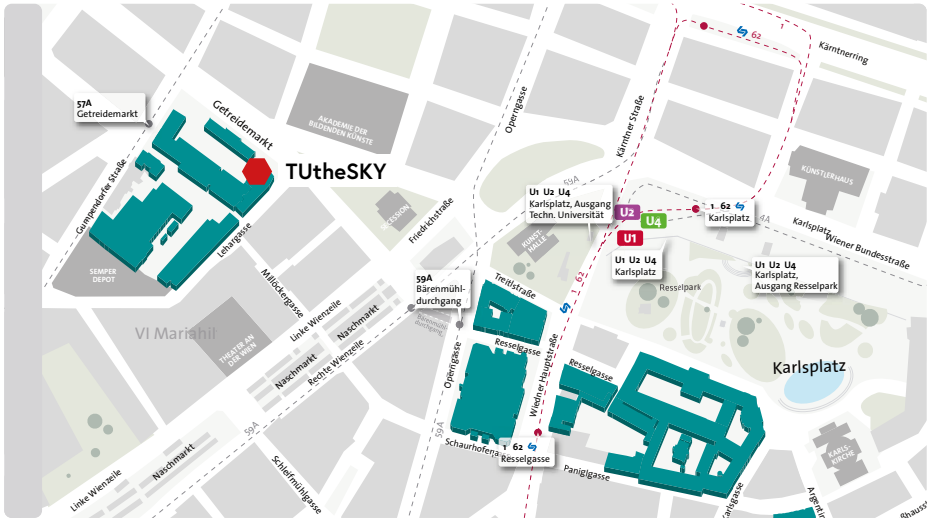
Participation is free, please register until 16th November 2021.
The number of participants on site is limited, please register soon.

ONLINE-REGISTRATION



Current corona regulations: Entry tests or evidence of low epidemiological risk according to the „2G+ rule“ (vaccinated or recovered and PCR-Test) are mandatory.

ACCESS:

By Metro U1, U2, U4 (Station Karlsplatz) and Bus 57A (Station Rahlgasse)

Responsibility:
Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK)
Department of Energy and Environmental Technologies
Responsible for the programme: Mag. Sabine Mitter
1030 Vienna, Radetzkystraße 2

www.nachhaltigwirtschaften.at

ORGANISER:

Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

PARTNER:

FFG Promoting Innovation.
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