



# CALL FOR ABSTRACTS

# 2020

International Renewable Energy Storage Conference **IRES**

## 14th International Renewable Energy Storage Conference (IRES2020) Hall 8b Messe Düsseldorf, 10–12 March 2020

You are hereby cordially invited to submit an abstract for the 2020 conference via our submission platform until 13th September for oral presentation and 1st February 2020 for poster presentation.

Full papers can be submitted until March 10, 2020 for the IRES 2020 conference proceedings, to be fully refereed and published in EUROSOLAR's scientific open access journal, published through Atlantis Press. There is an additional option to also submit advanced papers in the Journal of Energy Storage (Elsevier).

The European Association for Renewable Energy EUROSOLAR holds its 14th International Renewable Energy Storage Conference (IRES 2020) on March 10–12, 2020 as an integral component of the International Renewable Energy Storage / Energy Storage Europe (IRES/ESE) Conference and Exhibition at Messe Düsseldorf, Germany.

IRES provides a coherent overview of energy storage technologies that can enable the global transition towards the decarbonisation of economies through ubiquitous renewable energy systems. The conference program encompasses all storage technologies in their context, and welcomes case studies, applications, country scenarios, trend analyses, and barriers to be overcome for the transition process.

The conference is accompanied by the largest B2B exhibition on storage technologies. The colocation of the conference and the exhibition in one venue provides an ideal opportunity for scientists, innovators, entrepreneurs and investors, policymakers and students to meet. Access to all parts of the conference, the exhibition as well as to the networking events is included in the registration fee for oral and poster presenters.

**The deadline for submitting an abstract for an “oral presentation” is Friday, September 20, 2019.**  
**The deadline for submitting an abstract for a “poster presentation” is Friday, February 1, 2020.**

**Further information and abstract submission at [www.energystorageconference.org](http://www.energystorageconference.org)**



## GENERAL INFORMATION

### Submission Deadline

All abstracts intended for an oral presentation need to be uploaded by **Friday, September 20, 2019**.  
All abstracts intended for a poster presentation need to be uploaded by **Friday, February 1, 2020**.

### Submission Format

All abstracts need to be submitted via the online platform **[www.conftool.pro/ires2020/](http://www.conftool.pro/ires2020/)**. Abstracts should not exceed 300 words and contain the focus area, subheadings, new findings and the main thesis. The abstract may be supplemented with a maximum of two pages, including figures with captions and explanatory remarks. Abstracts must be submitted and presented in English.

### Abstract Selection

The scientific steering committee will meet in October to select the best abstracts and finalize the conference program. Each accepted abstract will be assigned to a speaker's slot in the parallel session or a place in the poster exhibition. **The Program Committee reserves the right to accept abstracts as oral or poster presentations.** The committee is fully authorized to reject contributions. The decision by the committee is final.

### Notification and Confirmation

If your abstract is accepted for presentation, you will be **notified by the end of October**. The information is sent to the contact person stated in the online system. Those contact persons are asked to share the information with authors and co-authors. With the notification you will receive a **Confirmation Form** that needs to be returned to EUROSOLAR within one week. The form states the presenting person as well as the title of the presentation and the final contact details.

### Conference Registration

All oral and poster presenters are required to register for the conference and pay the applicable registration fee no later than December 13, 2019. Presenters from universities, research institutes and non-profit organizations will have to pay 480.00 € (incl. VAT) and presenters from companies and private organizations will pay 960.00 € (incl. VAT). Presenters will receive an invoice for the registration fee in response to their confirmation form.

Presentations can be delivered by both authors and co-authors. If the submitter of the abstract is unable to attend the conference, s/he must provide a replacement. The registration fee is applicable for the replacing presenter, too. Each presenter may invite one additional co-author or member from his research team to attend the conference for the same price as the presenter (480.00 € or 960.00 € incl. VAT). Any additional co-authors will have to pay the regular conference fee. Presenters may not give more than one presentation.

The conference program will be made available in December 2019 on the website **[www.energystorageconference.org](http://www.energystorageconference.org)**.

## DEFINITIONS

### Oral presentations:

Oral presentations (15 min + 5 min discussion) are taking place in parallel sessions. Slots for oral presentations are assigned based on the quality of the abstract. Please note that there is no guarantee for a paper presentation as available slots are limited.

### Poster presentations:

The poster exhibition is integrated in the trade fair hall and can be accessed by all attendees of the conferences and B2B exhibition as well. Posters can be presented and explained throughout. Additionally, the poster exhibition is highlighted in 2 session à 90 minutes, where no parallel IRES sessions take place. A0 size poster walls and glue strips will be available.

### Full papers and publications:

Full papers may be handed in **until March 10, 2020**. Full papers serve as an addition to the abstract and will be reviewed by the scientific steering committee separately.

Papers of high quality and a striking relevance will be selected to be published in a open access scientific journal (Atlantis Press). Handing in a full paper is **not a requirement for the presentation** at the conference. Publications will be copyrighted, published under the Creative Commons Attribution (CC BY) and freely accessible. Papers may not have been published before and may not be published afterwards. Outstanding papers get a chance to be published in the Journal of Energy Storage (Elsevier).

### Proceedings:

All authorized presentations and posters will be included in the Proceedings of the 13th International Renewable Energy Storage Conference. The conference proceedings are a collection of the presented work at the conference. This portfolio will be made available to the conference participants.

## 'STORAGE IN THE RENEWABLE ENERGY ECOSYSTEM'

### 2020 Topics

The IRES 2020 conference will focus on storage, especially heat storage systems in the dynamic and rapidly changing context of distributed energy systems (DER) and their advanced ability to link both energy and user/producer sectors: Energy storage and sector coupling: connecting the mobility, transport, heat and power sectors.

Authors are invited to submit research and project abstracts addressing the following storage related topics for the IRES Conference:

### STORAGE TECHNOLOGIES

- Progress in relevant energy storage technologies including:
  - Electrical Storage
  - Electrochemical Energy Storage
  - Thermal Energy Storage
  - Chemical Energy Storage
  - Mechanical Energy Storage
- Enhancement of storage capacity, durability, reliability and safety
- Recycling and environmental aspects of energy storage technologies

## **NETWORKS AND SYSTEMS**

- Electric grids and storage – supplements and competition
- Storage as an option to avoid grid extension
- Distributed and decentralized electricity storage as virtual large-scale storage facility
- CHP and heating/cooling networks, use of thermal energy storages in power grids
- High temperature storage
- Demand Response and Demand Side Management

## **SYSTEM ANALYSIS AND PLANNING**

- Strategies for systems with a high share of Renewable Energy and 100% Renewable Energy systems
- Connecting electric vehicles to the grid
- Heat storage for buildings and industrial applications
- Energy storage products, management strategies and field experience with storage systems to increase self-consumption of photovoltaic energy from owned facilities as well as off-grid and micro-grid systems
- Strategies on increasing energy efficiency, especially in the industrial sector

## **STORAGE IN DISTRIBUTED SMART ENERGY RESOURCES AND MANAGEMENT SYSTEMS (DER and DERMS)**

- Power-to-Gas
- Power-to-Heat
- Power-to-Mobility
- Power-to-Chemicals
- Analysis of benefits by interaction of energy networks for power, heat, cold, gas and transport
- Technologies, business models, legal frameworks, country policies
- Barriers for realization of energy sector coupling
- Smart grid concepts and virtual power plants including renewable energy and energy storage
- Smart Energy Systems including blockchain and hash technologies
- Security and privacy in decentralized energy trading and exchange systems

## **STORAGE OPPORTUNITIES SPECIFIC TO EMERGING COUNTRIES**

- Projects and technologies already deployed
- Concepts and realization of micro-grid interaction with national grids
- Status of the regional markets and evolution of technical and regulatory frameworks

## **STORAGE CITIES: MUNICIPAL ENERGY SUPPLY AND STORAGE SYSTEMS**

- Appreciated aspects: marketing, people involvement, financing, technical concepts, barriers, best practice, future plans, etc.
- Local initiatives for renewable energy supply
- Discussion about opportunities and barriers of existing initiatives in cities and local communities who take the energy supply into their own hands
- Share experience from local energy supply communities from all over the world

## **STORAGE STORIES: WORLDWIDE ENERGY STORAGE CASE STUDIES**

- Overviews and reviews on certain storage technologies or areas of application specific to a country or region
- Possibilities and barriers of applying renewable energy and energy storage in a country or region
- Discussion of current use and types of storage technologies, including evaluation of problems and opportunities arising from certain technologies
- Evaluation of involved actors (government, (multinational) companies, non-profit organizations) and their role on the introduction and sustainable use of storage technologies

## CONTACT

EUROSOLAR e.V.  
The European Association for Renewable Energy  
Kaiser-Friedrich-Str. 11  
53113 D-Bonn  
IRES@eurosolar.de  
Phone: +49 (0) 228-289 1446  
Fax: +49 (0) 228-361279

**Submission info and entry site: [www.energystorageconference.org](http://www.energystorageconference.org)**

## IRES Scientific Committee

- Prof. Dr. Ingo Stadler, TH Köln, IRES Chairman
- Dr. Dieter Boer, Universitat Rovira i Virgili
- Prof. Dr. Christian Breyer, Lappeenranta University of Technology
- Dr. Tom Brown, Karlsruhe Institute of Technology
- Prof. Dr. Luisa Cabeza, Universitat de Lleida
- Prof. Peter Droege, Liechtenstein Institute for Strategic Development EUROSOLAR e.V.
- Dr. Jose Etcheverry, York University
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- Prof. Dr. Dirk Uwe Sauer, RWTH Aachen
- Dr. Peter Schossig, Fraunhofer ISE
- Dr. Tom Smolinka, Fraunhofer ISE
- Prof. Dr. Michael Sterner, TH Regensburg

## IRES Organizing Committee

Prof. Peter Droege, Liechtenstein Institute for Strategic Development EUROSOLAR e.V.  
Prof. Dr. Ingo Stadler, FH Cologne, Chair of Scientific  
Christoph Trimborn, Projectmanagement IRES, EUROSOLAR

The International Renewable Energy Storage Conference IRES is organised by  
EUROSOLAR, the European Association for Renewable Energy  
**[www.eurosolar.org](http://www.eurosolar.org)**

**EUROSOLAR e.V | Kaiser-Friedrich-Straße 11 | 53113 Bonn**