



# CALL FOR ABSTRACTS 2017

International  
Renewable  
Energy  
Storage  
Conference

# IRES

## 11th International Renewable Energy Storage (IRES 2017)

14 – 16 March 2017, Messe Düsseldorf

The European Association for Renewable Energy EUROSOLAR and the World Council for Renewable Energy WCRE will organize its 11th International Renewable Energy Storage Conference (IRES 2017) on March 14 – 16, 2017 together with Energy Storage Europe (ESE) at Messe Düsseldorf, Germany. The conference is based on two thematic foci: the scientific research on storage technology (IRES) and the introduction of this technology to the global market (ESE).

The conference is accompanied by the largest exhibition on storage technologies ENERGY STORAGE EUROPE. The vicinity of the conference and the exhibition guarantees the opportunity of scientists and entrepreneurs to meet and discuss the recent developments of the newest technologies. Tickets to the exhibition as well as to the networking events are included in the registration fee for presenters.

**You are cordially invited to submit an abstract to be considered for presentation at the 2017 conference. Papers may be presented in parallel sessions (“oral presentations”) or the poster exhibition (“poster presentation”).**



WCRE



## GENERAL INFORMATION

In particular, we would like to encourage the submission of papers on local initiatives for energy supply including storage technologies of any kind. More and more cities and local communities take the energy supply in their own hands. We would like to foster discussion among these initiatives and we want to share experience from local energy supply communities from all over the world. All kinds of aspects are appreciated (marketing, involvement of people, financing, technical concepts, barriers, best practice, future plans, etc.)

### Submission Deadline

All abstracts need to be uploaded by Thursday, September 15, 2016.

### Submission Format

All abstracts need to be submitted via the online platform [www.conftool.pro/IRES2017](http://www.conftool.pro/IRES2017). Abstracts should not exceed 300 words (plus two optional pages maximum, including charts or diagrams with captions and explanatory remarks). Abstracts must be submitted in and presented in English language. For submitted papers additional graphic requirements will be made available.

### Abstract Selection

The Program Committee will meet in October to select 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 data submitted 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 presenters are required to register for the conference and to pay the applicable registration fee no later than December 18, 2016. Presenters from universities, research institutes and non-profit organizations will have to pay 410,00 EUR (plus VAT), presenters from companies and private organizations will pay 810,00 EUR (plus VAT). Presenters will receive an invoice for the registration fee as a 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 care for 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 presenter's registration fee. Any other co-authors will have to register paying the regular conference fee. Presenters may not give more than one presentation.

The conference program will be made available in December 2016 on the website [www.energystorageconference.org](http://www.energystorageconference.org).

## DEFINITIONS

### **Paper presentations:**

Paper presentations (15 min + 5 min discussion) are taking place in parallel sessions. Slots for paper 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:**

As part of the conference, posters will be presented in prime space where the attendees can view them also during breaks and in special poster sessions (2 sessions with 90 minutes each). A0 size poster walls and glue strips will be available.

### **Full papers and publications:**

Full papers may be handed in until 1 February. Full papers serve as an addition to the abstract and will be reviewed by the scientific steering committee again.

Papers of high quality and a striking relevance will be selected to be published in Energy Procedia and the Journal of Energy Storage. Handing in a full paper is no requirement for the presentation at the conference. Publications at Energy Procedia and Journal of Energy Storage are copyrighted. Papers may not have been published before and may not be published afterwards.

### **Proceedings:**

All selected papers, authorized<sup>1</sup> presentations and authorized full papers will be included in the Proceedings of the 11th 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 participants of the conference and for free and will be made available for sale for other interested parties.

## TOPICS

Authors are invited to submit abstracts of research and projects addressing the following topics:

### **GLOBAL APPROACHES**

- Chances and barriers of using renewable energy in your country
- Discussion of current use and kind of storage technologies, including an evaluation of the problems and opportunities arising from this technology
- Evaluation of involved actors (government, (multinational) companies, non-profit organizations) and their input on the introduction and sustainable use of storage technology
- Grid-scale energy storage solutions

### **MUNICIPALITY ENERGY SUPPLY SYSTEMS**

- Local initiatives for energy supply including storage technologies of any kind
- Discussions about chances and barriers of existing initiatives in cities and local communities who take the energy supply in their own hands
- Share experience from local energy supply communities from all over the world
- Appreciated aspects: marketing, involvement of people, financing, technical concepts, barriers, best practice, future plans, etc.

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<sup>1</sup> Authors are asked for this authorization as part of the Confirmation Form.

## **POLITICS, POLICIES, LAW, FINANCES AND MARKET**

- Legal, political, social, national economic and market economic aspects of integrating energy storage into the energy supply system
- Market entry strategies and the associated business and cost models for the operation of storage systems and hybrid and combined Renewable Energy power plants/virtual power plants under different economic and technological frameworks (developed countries, developing countries, emerging economies)
- Renewable Energy Finance and Energy Economics: market strategies, computability of economic growth and the energy transition, (financial) strategies for the development of renewable energy systems in countries of the Global South
- And in particular: realized systems and operational experience

## **TECHNOLOGIES, SYSTEMS, PLANTS & SCENARIOS**

- Storage technology for electrical energy, heat and mobility (electrochemical, electrostatic, electromechanical, electro-dynamic, chemical, thermal and thermo-chemical)
- The need for storage capacity: scenarios and assessment studies for all applications and energy sectors
- Strategies for systems with a high share of Renewable Energy and 100% Renewable Energy systems – focus on the use of storage
- Connecting electric-drive vehicles and the electric grid (vehicle to grid)
- Smart grid concepts and hybrid and combined Renewable Energy power plants/virtual power plants with Renewable Energy
- Heat storage for buildings and industrial applications
- Compact thermal energy storage: design of reactors, heat exchanger development, optimization of heat and mass transport as well as simulations of all these aspects  
High temperature storage for Concentrating Solar Power (CSP) technologies
- 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

## **NETWORKS**

- Electric grids and storage – supplements and competition
- Distributed and decentralized electricity storage as virtual large-scale storage facility
- CHP and heating networks, use of new or existing thermal storage in the power grids
- High temperature storage for solar thermal power plants (CSP) or compressed air energy storage
- Interaction of the energy networks for power, gas and heat
- Cross-sectoral use of energy storage systems: Power-to-Gas, Power-to-Heat, Power-to-Mobility, Power-to-Chemicals

## **Contact**

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