



# Intersolar Europe

PES brings you previews to the Intersolar shows, kicking off with the Intersolar Europe and followed closely by Intersolar US. These shows reflect the expansion of solar energy across the globe and bring you the latest technology, innovation and a chance to meet the regular players in the market and new ones. Prepare to be wowed.

## **Intersolar Europe 2017: Showcasing the future of the energy industry**

The international solar market is booming. Market researchers from Mercom Capital have put the global rise in photovoltaics for 2016 at 76 gigawatts. Southern Europe is one of the sunniest regions in the world, making it the perfect location to drive forward the global energy transition and further promote solar energy growth.

And as the world's leading exhibition for the solar industry and its partners, Intersolar Europe will serve as a source of inspiration from May 31–June 2, 2017 in Munich for manufacturers, distributors, service providers and suppliers. This year, Intersolar

Europe will once again be accompanied by ees Europe, the continent's largest and most visited exhibition for batteries and energy storage systems.

At both exhibitions, the industry sheds light on topics such as energy generation, storage, grid integration and energy management, smart renewable energy as well as innovation in the photovoltaics (PV) and storage industry. Around 1,200 exhibitors and 40,000 trade visitors from 160 countries are expected to attend this year.

## **Towards the new world of energy**

The global energy industry is currently evolving, with electricity from renewable

resources becoming more and more important. Instead of large-scale, centralised nuclear and fossil fuel power stations, in the future, the energy supply will be secured by millions of decentralised renewable energy plants and storage systems as well as consumers acting as what are known as prosumers.

Supply structures are also set to change in this new energy world. The main challenge here is ensuring an uninterrupted flow of energy despite the varying availability of renewable power. A modern infrastructure and reliable storage facilities are therefore the cornerstone of this development, supported by an intelligent network of the various key players, such as power generators and storage facilities. Together with ees Europe, Intersolar Europe has become a platform for this new energy world.

The Smart Renewable Energy special exhibit, hall B2, booth B2.140, sheds light on this area. Here, the Karlsruhe Institute of Technology (KIT) and the project partners of the Helmholtz Association – the German Aerospace Center (DLR) and the Forschungszentrum Jülich (FZJ) – will



the most important and globally recognised award in the industry. A look back at previous award topics is a good indicator of how the industry has evolved over the decade. The first few years focused on ways of increasing efficiency and quality, while attention turned later to component optimisation. In 2016, the industry increasingly addressed digitalisation, a trend that has continued with some force into 2017.

For the first time, the Outstanding Solar Projects category is being expanded to include the new topic Smart Renewable Projects. The ceremony begins on May 31, 2017 at 5:00pm at the Innovation and Application Forum, hall A4, booth A4.530.

**Storage technology for the global energy transition**

This year, ees Europe will be held in conjunction with Intersolar Europe for the fourth time. The success story of the continent's largest and most visited exhibition for batteries and energy storage systems is impressive: It began in 2014 with 48 exhibitors and 2,100m<sup>2</sup> of exhibition space. Just two years later, in 2016, a whopping 212 exhibitors flocked to Munich to present their innovations across 12,500m<sup>2</sup> – a growth rate of almost 500%!

The success of ees Europe continues unabated: In 2017, the exhibition space will grow to 17,500m<sup>2</sup> and the organisers are expecting 270 companies from around the globe. Around 430 of the roughly 1,200 exhibitors at ees Europe and Intersolar Europe will present energy storage technology.

This rapid development is due in part to changes in the market. According to the German Solar Association (BSW-Solar) the number of solar storage systems installed in Germany reached 52,000 in 2016 – representing a growth of 20,000 compared with the previous year. The market research company EuPD Research estimates the EU market for PV storage systems in private households will amount to 861 million euros in 2020. Sales around the world could reach around seven billion euros by 2022 according to Global Market Insights.

This growth is also fuelled by falling storage system prices. By the second half of 2016, for example, lithium ion storage devices were some 15% cheaper than they had been at the beginning of 2015. The reason for this is that several major companies from the automotive industry have joined the storage battery market and are setting up large-scale production facilities.

A turnkey solar power storage system now costs 40% less than it did three years ago. It is especially lucrative for homeowners with new PV systems to store energy produced on site and use it themselves instead of relying on utility companies.



present how new methods and technologies fit into the future energy system. Their infrastructure platform Energy Lab 2.0 investigates the complex interplay of the components of future energy systems.

On June 1, this topic will also feature at the Smart Renewable Energy Forum, hall B2, booth B2.131, which will address concepts and technologies for a smart, decentralised energy landscape on each day of the exhibition.

**Alongside the exhibition: Intersolar Europe accompanying program**

The topic will additionally be taken up by the Intersolar Europe Conference being held on May 30 and 31, also in Munich. A variety of sessions at the conference will discuss strategies for sustainably shaping the new energy world. 1,300 guests and 200 experts from all over the world are also set to discuss new business models and financing opportunities, the operation and maintenance of large-scale PV power plants and the situation of the global market.

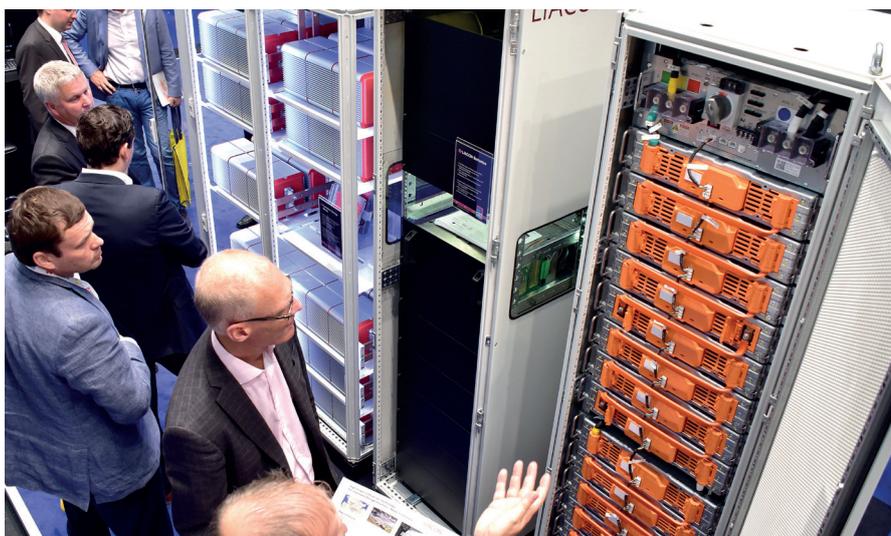
For the first time, Dr. Pierre-Jean Alet is

presiding over the conference as chairman. In his current role of activity manager at the Swiss research and development center CSEM, Centre Suisse d'Electronique et de Microtechnique or Swiss Center for Electronics and Microtechnology, he is responsible for the performance of PV systems as well as storage system and grid integration.

Dr. Alet is a member of the Steering Committee of the European Technology and Innovation Platform Photovoltaics, where he leads the platform's activities on grid integration. With his extensive expertise in energy generation, storage and management for the new energy world, he is well-placed to ensure that the conference covers a wider range of relevant topics.

**A decade of the Intersolar AWARD: Anniversary and reflection of an entire industry**

2017 sees the Intersolar AWARD celebrate a milestone birthday. For the tenth year in a row, the organisers are honouring pioneering ideas and new approaches with



The special exhibit E-Mobility & Renewable Energy, hall B1, booth B1.170, highlights the significance of electric cars for the energy mix and transport of the future. It will be introducing vehicle concepts, innovative charging solutions and current business models for sustainable e-mobility. Intelligent technology allows excess electricity from photovoltaic systems to charge electric vehicles, for example.

ees Europe is also honouring the best innovations again this year. The organisers are set to present the ees AWARD for the fourth time running, with recognition going to pioneering solutions for mobile and stationary electricity storage along the entire value-added chain – from components to production to concrete applications and business models. The ceremony takes place on May 31 at the Innovation and Application Forum.

The current market environment is therefore ideal for ees Europe. This year, the event will focus on the topics of self-consumption in residential and commercial buildings, large-scale storage systems and grid integration as well as battery safety and global storage markets. Another area of focus in 2017 is E-mobility.

**ees Europe and ees Europe Conference put E-mobility on the agenda**

As the global storage industry expands to new application areas, all signs in the energy storage market point to mobility. The dominance of stationary storage devices is a thing of the past. Demand for electric vehicles is growing, prompting more and more automotive manufactures to offer models with increasingly powerful

batteries and solutions for systems integration of mobile storage devices.

Bloomberg New Energy Finance anticipates over 100 million electric vehicles on the road worldwide by 2030 – reason enough to put this topic on the agenda of the ees Conference and create a dedicated special exhibit: E-Mobility & Renewable Energy.

Attendees at the ees Europe Conference will have the opportunity to learn about current market developments and government incentive programs in Europe as well as global hotspots for stationary and mobile storage systems. The conference will also discuss storage integration, types of battery electric and hybrid vehicles as well as vehicle-to-grid concepts.

**Wave of innovations for a new world of energy**

The more attractive solar power and its storage become and the more people support the energy transition globally, the more likely it is that innovations are implemented and developed. New business models, products and solutions are emerging almost daily, and the industry is prospering. Intersolar and ees Europe shine the spotlight on pioneering concepts – and 2017 will be no different. Visitors are invited to see and discuss the future of the energy supply up close, taking inspiration home with them.

[www.intersolar.de/en](http://www.intersolar.de/en)

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