



Intersolar Europe and ees Europe Conference
Innovations, Trends, Networking

JUNE
09-10
2015
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CONFERENCE PROGRAM



Intersolar Europe and ees Europe Conference – The information and strategy platform for the energy sector.

Innovations
Trends
Networking



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INTER SOLAR EUROPE CONFERENCE

EES EUROPE CONFERENCE

Tuesday, June 9, 2015

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Subject to change

CONFERENCE QUICK FACTS

Dates	June 9–10, 2015
Hours	9:00am–5:30pm
Venue	ICM – Internationales Congress Center München, Messe München 81823 Munich, Germany

CONFERENCE TICKETS

Tickets

Full Conference ¹	€ 1,100
Day Ticket ²	€ 670
Conference Barbecue	€ 35

¹ includes all Intersolar Europe & ees Europe Conference sessions and the three day exhibition pass. Conference Barbecue is not included.

² includes all Intersolar Europe & ees Europe Conference sessions of the respective day and the three day exhibition pass. Conference Barbecue is not included.

| INTERSOLAR EUROPE CONFERENCE COMMITTEE

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Manager Photovoltaics
Fraunhofer Institute for Solar Energy Systems ISE

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Managing Director
reniva GmbH



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Energy Data and Strategic Development
Fraunhofer Institute for
Solar Energy Systems ISE



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Chief Operating Officer
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(BSW-Solar)



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Founder & Chief Market
Research Analyst
Solar PV Market Research



Anita Richter
Consultant
GIZ GmbH

EES EUROPE CONFERENCE COMMITTEE

EES CONFERENCE COMMITTEE CHAIRMAN



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Head of Department PV Off-Grid Solutions
and Battery System Technology
Fraunhofer Institute for Solar Energy Systems ISE

EES CONFERENCE COMMITTEE CO-CHAIRMAN



Alfons Westgeest

Executive Director
EUROBAT- Association of European Automotive
and Industrial Battery Manufacturer

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(HSE)



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Project Coordinator Competence E
Karlsruhe Institute of Technology (KIT)



Prof. Dr. Andreas Jossen

Chair Energy Storage Technology
Technische Universität
München (TUM)



Dr. Robert Thomann

Innovation Manager
MVV Energie



Dr. Wolfgang Weydanz

Senior Scientist
Siemens AG

TUESDAY, JUNE 9, 2015

Time 9:00am–10:30am

Room 14 A

Summary

EPIA's annual "Global Market Outlook 2015 – 2019" flagship publication considered to be the most authoritative market analysis report for the global PV sector will be launched at the Intersolar Europe. A five-year highly detailed market forecast, covering the various regional PV epicenters, and their relevance in the respective power markets. Additionally, an outlook on how the global PV power market is expected to evolve in the coming years, emerging technology trends among other vital insights will be featured in the course of this session.

WELCOME & GLOBAL MARKET OUTLOOK

- 9:00am** Welcome Note
Markus Elsässer, Chief Executive Officer, Solar Promotion GmbH, Germany
- 9:05am** Conference Welcome and Introduction
Prof. Dr. Gerhard Willeke, Manager Photovoltaics, Fraunhofer Institute for Solar Energy Systems ISE, Germany
- 9:15am** The Global Market Outlook
Oliver Schäfer, President, European Photovoltaic Industry Association (EPIA), Belgium
- 9:35am** Europe's Solar Future: The Role of PV in the Energy Mix
Joachim Goldbeck, President of the Board of Directors, German Solar Association (BSW-Solar), Germany
- 9:55am** Solar Energy Technologies – An Integrated View into the Future
Pekka Tiitinen, President Discrete Automation and Motion Division, ABB Group, Switzerland

Markus
ElsässerProf. Dr.
Gerhard WillekeOliver
SchäferJoachim
GoldbeckPekka
Tiitinen

Time 11:00am–12:45pm

Room 14 A

Summary

The European PV Market is undergoing a fundamental transformation. On the one hand, demand for PV is shrinking mainly due to changes of the regulatory political landscape across a number of European countries, but on the other hand, especially these changes drive demand for new applications such as PV systems combined with electrical energy storage which are responsible for the emergence of new business models. Against this backdrop, current market scenarios forecast a steady demand of approx. 10 GW annually in Europe in the coming years.

GLOBAL PV MARKETS: EUROPE – PREPARING FOR THE NEXT LEVEL

- 11:00am** Welcome and Introduction
Frauke Thies, Chief Policy Officer, European Photovoltaic Industry Association EPIA, Belgium
- 11:05am** European Market Update
James Watson, Chief Executive Officer, European Photovoltaic Industry Association (EPIA), Belgium
- 11:25am** PV and Storage Market Outlook in Germany
David Wedepohl, Director Communications and Markets, German Solar Association (BSW-Solar), Germany
- 11:45am** Traditional Utilities Entering the PV Markets
Franco Gola, Head of Energy Solutions – PV, E.ON Deutschland GmbH, Germany
- 12:05pm** Turkey's Market Opportunities for Photovoltaics
Angelika Baur, Senior Professional Project Manager, Deutsche Energie-Agentur GmbH (dena), Germany
- 12:25pm** UK Solar PV Market Update – Opportunities & Challenges
Reza Shaybani, Chairman, British Photovoltaic Association (BPVA), U.K.

Frauke
ThiesJames
WatsonDavid
WedepohlFranco
GolaAngelika
BaurReza
Shaybani

GLOBAL PV MARKETS: MAJOR INSTALLATION OPPORTUNITIES IN THE AMERICAS

Time 2:00pm–3:30pm

Room 14 A

- 2:00pm** Welcome and Introduction
Dr. Rodrigo Lopes Sauaia, Executive Director,
Brazilian Photovoltaic Solar Energy Association – ABSOLAR, Brazil
- 2:05pm** Overview of the U.S. PV Market – California's Continuing Success
and the Emergence of Other States
Brad Heavner, Policy Director, California Solar Energy Industries Association (CALSEIA), U.S.
- 2:25pm** Market Development in Mexico
María Jesús Báez, Energy Consultant, Creara, Spain
- 2:45pm** The New Net-Metering-Program in Chile
Christian Santana Oyarzún, Head of Renewable Energy Division, Ministerio de Energía, Chile
- 3:05pm** From Promise to Action: the Brazilian PV Market Starts to Ramp-Up
Dr. Rodrigo Lopes Sauaia, Executive Director,
Brazilian Photovoltaic Solar Energy Association – ABSOLAR, Brazil

Dr. Rodrigo
Lopes SauaiaBrad
HeavnerMaría Jesús
BáezChristian
Santana Oyarzún**Summary**

The Americas combined promise to attract a double-digit GW demand for PV in the coming years. As such, the US market is expected to be the third largest globally in 2014. South-/Latin American markets are expected to enjoy great installation volumes as well. This session will focus on how markets across "The Americas" under their respective framework conditions are anticipated to evolve. Markets such as the US, Mexico, Chile and Brazil will be highlighted.

GLOBAL PV MARKETS: ALL EYES ON ASIA

Time 4:00pm–5:30pm

Room 14 A

- 4:00pm** Welcome and Introduction
Frank Haugwitz, Head of Intersolar Conference Development,
Solar Promotion International GmbH, China
- 4:05pm** South-East Asian Markets
Pietro Radoia, Analyst, Bloomberg New Energy Finance, U.K.
- 4:25pm** Indias Options for Going Solar
Dr. Tobias Engelmeier, Director and Founder, BRIDGE TO INDIA Energy Pvt. Ltd., India
- 4:45pm** China's Future Solar PV Ambitions – At Home and Abroad
Frank Haugwitz, Head of Intersolar Conference Development,
Solar Promotion International GmbH, China
- 5:05pm** Japanese PV Market – New Rules and Bottlenecks
Izumi Kaizuka, Manager, RTS Corporation, Japan

Frank
HaugwitzPietro
RadoiaDr. Tobias
EngelmeierIzumi
Kaizuka**Summary**

Today and in the foreseeable future, Asia will be the global PV center of gravity for both production and deployment. In 2013 Asia was responsible for roughly 50% of the total global demand. Low prices for PV systems, surging power consumption, a growing sense concerning environmental pollution among other reasons are the main driver why an increasing number of national policies encourage the deployment of PV across Asian countries. Presentations will feature legislative landscapes, opportunities, and an outlook in terms of market development in the foreseeable future in selected countries such as Japan, China, India, and Thailand.

TUESDAY, JUNE 9, 2015

Time 2:00pm–3:30pm

Room **13 B****Summary**

Innovations at Intersolar Europe our new flagship session introduced for the first time offers a highly concise glimpse into the vast amount of new products and projects launched by exhibiting companies this year in Munich. Innovative products and solutions covering PV applications showcased to the industry for the first time are being introduced by company representatives.

INNOVATIONS AT INTERSOLAR EUROPE

- 2:00pm** Welcome and Introduction
Dr. Michael Fuhs, Chief Editor, pv magazine Germany, Germany
- 2:20pm** PIDcon: A PID Quick Test for Solar Cells and Module Components
Dr. Dominik Lausch, Research Associate Fraunhofer Center for Silicon-Photovoltaics CSP, Germany
[JinkoMaximized – The New Generation of Smart Modules](#)
Juan Carlos Gonzalez, Senior Technical Manager, Jinko Solar, Switzerland
[Renusol RS1 – The Ultimate Clamp](#)
Stefan Liedtke, Managing Director, Renusol GmbH, Germany
[Diesel + Photovoltaic = High Efficiency Energy Supply](#)
Stephanie Poetter, Head of Marketing & Product Management, DHYBRID Power Systems GmbH, Germany
[Optimizing Energy](#)
Hadas Rozen, Director of Marketing, SolarEdge Technologies Inc., Israel

Time 4:00pm–5:30pm

Room **13 B****Summary**

Innovations at ees Europe – our new flagship session introduced for the first time offers a highly concise glimpse into the vast amount of new products and projects launched by exhibiting companies this year in Munich. Innovative products and solutions covering electrical energy storage applications showcased to the industry for the first time are being introduced by company representatives.

INNOVATIONS AT EES EUROPE

- 4:00pm** Welcome and Introduction
Dr. Michael Fuhs, Chief Editor, pv magazine Germany, Germany
- 4:20pm** [Past the Honeymoon Phase; Is Long Duration Storage and Solar Still a Perfect Match? An Exclusive Look at Real World Deployments](#)
Tim Poor, Vice President of Sales and Business Development, Aquion Energy, Inc., U.S.
[Elements of Energy](#)
Francesco Tondo, Sales Manager der VARTA Storage GmbH, Germany
[Breaking Out of the Cell: Unlocking Energy Storage](#)
Graeme Ludlow, Commercial Director, REDT, U.K.
[FENECON PRO Hybrid. The Prosumer Storage System](#)
Franz Feilmeier, Chief Executive Officer, FENECON GmbH & Co. KG, Germany
[Energiewende on 4 Wheels](#)
Peter Siegert, Key Account Green Mobility, MMD Automobile GmbH, Germany
[The Power Gap Filler – The Power-to-Gas-to-Power Combined Power Station](#)
Heinrich Gärtner, Managing Director, GP JOULE GmbH, Germany

| MEET THE EXPERT

Date	Tuesday, June 9, 2015
Time	1:30pm–2:00pm
Room	12A

Advice & Support on Quality Assurance for Project Developers
 Dr. Matthias Vetter, Head of Department PV Off-Grid Solutions and Battery System Technology, Fraunhofer Institute for Solar Energy Systems ISE, Germany

| NETWORKING UNDER THE SUN

Join us on Tuesday, June 9 at 5:30pm in the ICM Garden for the popular Conference Barbecue. The barbecue will take place outside the ICM – Internationales Congress Center München, in the ICM garden. The meal will include salads, a variety of freshly grilled meat, an assortment of vegetarian side dishes, and desserts. We look forward to seeing all of you there!

Participation Fee €35

Registration ICM, conference registration counter

| INTERSOLAR EUROPE AND EES EUROPE ON YOUR SMARTPHONE

The mobile website and smartphone app for iOS and Android will help you plan your visit to Intersolar Europe and ees Europe both during the run up to the event and once you have arrived.

The mobile app includes:

- Intersolar Europe and ees Europe exhibitor lists
- interactive floor plan with route planning advice
- information on interesting forums, workshops and presentations

- Intersolar Europe and ees Europe Conference and Exhibition programs
 - latest bus and subway times
 - memo function for making quick, effective notes
 - reminder function that allows you to save important program events in your calendar
 - information on tickets, hours, travel services and places to eat
- All this and lots more useful information on visiting the exhibition. → www.intersolar-app.de



TUESDAY, JUNE 9, 2015

Time 9:00am–10:30am

Room **14 C**

Summary

During this session delegates will learn about both the recent and anticipated future market development in key global markets across the globe. Legislative regulatory landscapes, emerging business models, the potential in various market segments, and the options of storage system integration to strengthen local grid infrastructure for high penetration of renewables will be featured.

EES: MARKET TRENDS AND EMERGING OPPORTUNITIES

- 9:00am** **Conference Welcome**
Dr. Matthias Vetter, Head of Department PV Off-Grid Solutions and Battery System Technology, Fraunhofer Institute for Solar Energy Systems ISE, Germany
- 9:05am** **Introduction & Market Overview**
Alfons Westgeest, Executive Director, EUROBAT Association of European Automotive and Industrial Battery Manufacturers, Belgium
- 9:25am** **IRENA's Electricity Storage Roadmap**
Dr. Ruud Kempener, Technology Roadmap Analyst, IRENA International Renewable Energy Agency, Germany
- 9:45am** **The Benefits of Electricity Storage in Combination with Solar PV**
Dr. Bas Vet, Consultant, DNV GL – Energy, Netherlands
- 10:05am** **StoREnt – Rental Systems for the Evaluation of Storage Applications**
Dr. Peter Eckerle, Managing Director, StoREgio Energiespeichersysteme e.V., Germany



Dr. Matthias Vetter



Alfons Westgeest



Dr. Ruud Kempener



Dr. Bas Vet



Dr. Peter Eckerle

Time 11:00am–12:30pm

Room **14 C**

Summary

Energy Storage Technologies cover a wide range of electrochemical types, such as advanced lead acid, Lithium-ion, Sodium-Ion, Redox-flow batteries as well as high temperature batteries, suitable for a wide range of different stationary applications. Speakers will share insights on deployment scenarios, expected cost developments, corresponding life cycle assessments, and anticipated technological milestones in the near future.

EES: PREDICTING NEW BATTERY TECHNOLOGY IDEAS AND USAGE SCENARIOS

- 11:00am** **Welcome and Introduction**
Dr. Matthias Vetter, Head of Department PV Off-Grid Solutions and Battery System Technology, Fraunhofer Institute for Solar Energy Systems ISE, Germany
- 11:05am** **Battery Technology Roadmap for Stationary Energy Storage Applications**
Dr. Axel Thielmann, Deputy Head of Competence Center – Emerging Technologies, Fraunhofer Institute for Systems and Innovation Research ISI, Germany
- 11:25am** **Operational Experiences with Advanced Vanadium Redox Flow Batteries in the Megawatt Range**
Dr. Andreas Luczak, Managing Director, Vanadis Power GmbH, Germany
- 11:45am** **Standardized Energy Storage Solutions for the Stable Integration of Renewable Energies into Micro Grids**
Dr. George Hanna, Commercial Director, Qinous GmbH, Germany
- 12:05pm** **Impact of Lead-Acid Battery Energy Storage in Different Levels of the Electric Grid: Opportunities and Market Concepts**
Dr. Rainer Bussar, Director Industrial Batteries, Exide Technologies GmbH, Germany



Dr. Matthias Vetter



Dr. Axel Thielmann



Dr. Andreas Luczak



Dr. George Hanna



Dr. Rainer Bussar

TUESDAY, JUNE 9, 2015

EES: THE WAY FORWARD FOR SMALL SCALE APPLICATIONS

Time 2:00pm–3:30pm

Room **14 C**

- 2:00pm** Welcome and Introduction
Dr. Robert Thomann, Innovation Manager, MVV Energie AG, Germany
- 2:05pm** Scientific Measuring and Evaluation Program for Photovoltaic Battery Systems
Kai-Philipp Kairies, Research Associate, Institute for Power Electronics and Electrical Drives, RWTH Aachen, Germany
- 2:25pm** Decentral Power Business and Cooperation Opportunities for Developing the Future Energy System
Prof. Dr. Michael Weinhold, Chief Technology Officer Division Energy Management, Siemens AG, Germany
- 2:45pm** First Economic Lithium Storage at End Consumer Level
Detlef Neuhaus, Chief Executive Officer, SOLARWATT GmbH, Germany
- 3:05pm** Fleet Management of Residential Storage Batteries Demand Response Application
Katsufumi Miyamoto, General Manager, Panasonic Corporation, Japan



Dr. Robert Thomann



Kai-Philipp Kairies



Prof. Dr. Michael Weinhold



Detlef Neuhaus



Katsufumi Miyamoto

Summary

In the course of this session presenters will introduce the broad scope of primarily electrochemical based solutions designed to provide short-term and medium-term electrical energy storage. In particular the associated technical constraints and potential of today's and near future small scale electrical energy storage applications will be highlighted.

EES: UPS TECHNOLOGIES & APPLICATIONS – TRENDS AND ADVANCEMENTS

Time 4:00pm–5:30pm

Room **14 C**

- 4:00pm** Welcome and Introduction
Alfons Westgeest, Executive Director, EUROBAT Association of European Automotive and Industrial Battery Manufacturers, Belgium
- 4:05pm** UPS Applications for Modern Storage Systems and Their Combination with Renewable Energy Systems
Bernhard Rill, Vice President Director Sales/Marketing, Gustav Klein GmbH & Co KG, Germany
- 4:25pm** A Compact UPS Energy Storage Solution for a Green Grid Constructed Datacenter
Holger Schuh, Managing Director, Saft Batterien GmbH, Germany
- 4:45pm** How to Optimize the Business Case of UPS Batteries by Multiple Uses
Dr. Martin Sinz, Product Director-Advanced Applications & Renewable Energy Markets, GNB Industrial Power, Germany
- 5:05pm** UPS Technologies and Their Protection Level and Solutions for Future Intelligent Solar Hybrid UPS
Patrick Willems, General & Sales Manager, Vision UPS System Sarl, Luxembourg



Alfons Westgeest



Bernhard Rill



Holger Schuh



Dr. Martin Sinz



Patrick Willems

Summary

UPS applications are designed to provide emergency power to a load in case the main power supply fails. Usually power is stored in an on-site electrical energy system sufficient to start a stand-by power supply source. A UPS is typically used to protect hardware such as telecommunication or data centers and categorized by on-line, line-interactive or standby. This session will feature the current trends of UPS technologies especially in combination with renewable energy systems and applications as well the demand in selected markets.

WEDNESDAY, JUNE 10, 2015

Time 9:00am–10:30am

Room 14 A

Summary

Presentations given in this session will focus on the current market dynamics like national subsidization policies and provide an outlook on the estimated near and long-term market development. At the center of this session are countries such as Morocco, Jordan, Egypt and Saudi Arabia.

GLOBAL PV MARKETS: NEW MOMENTUM IN THE MENA REGION

- 9:00am** Welcome and Introduction
Nikolai Dobrott, Founder & Managing Partner, Apricum – The Cleantech Advisory, Germany
- 9:05am** Solar Energy's New Momentum in the MENA Region
Nikolai Dobrott, Founder & Managing Partner, Apricum – The Cleantech Advisory, Germany
- 9:25am** Solar Energy in Morocco PV Market Assessment
Abderrahim Jamrani, Technical Director, Moroccan Agency for Solar Energy (Masen), Morocco
- 9:45am** Jordan Renewable Energy Program
Shukri Halaby, Founding Board Member, EDAMA Association, Jordan
- 10:05am** Environmental and Socio-Economical Challenges of Solar Energy in Egypt and MENA Region
Dr. Tarek Hatem, Assistant Professor, The British University in Egypt, Egypt

Nikolai
DobrottAbderrahim
JamraniShukri
HalabyDr. Tarek
Hatem

Time 11:00am–12:30pm

Room 14 A

Summary

Countries across Africa are chronically short of both affordable and reliable power supply. Therefore, governments throughout the continent are increasingly opting for PV as a means to power their economies. Speakers from the region will share insights into the respective framework conditions, current market dynamics and its potential, as well the anticipated mid and long-term evolving trends.

GLOBAL PV MARKETS: THE SHIFT IN AFRICA – MORE THAN OFF-GRID

- 11:00am** Welcome and Introduction
Dr. Nabih Cherradi, Chief Technology Officer, Desert Technologies, Saudi Arabia
- 11:05am** IRENA Africa Clean Energy Corridor and Renewable Costing with Special Focus on Solar PV Costs and Markets in Africa
Eun Young So, Programme Officer, PV Costs and Markets in Africa, IRENA International Renewable Energy Agency, Germany
- 11:25am** Beyond Light: How Solar Micro Grids are Transforming Healthcare, Education and Rural Life in Africa and Portending the Future
Mike Rosenberg, Managing Director, Aleutia Computers Ltd., UK
- 11:45am** Clean Water Scarcity in African Countries
Dr. Nabih Cherradi, Chief Technology Officer, Desert Technologies, Saudi Arabia
- 12:05pm** Opportunities and Market Development for Photovoltaic South Africa
Angelika Baur, Senior Professional Project Manager, Deutsche Energie-Agentur GmbH (dena), Germany

Dr. Nabih
CherradiEun
Young SoMike
RosenbergAngelika
Baur

WEDNESDAY, JUNE 10, 2015

SOLAR/DIESEL POWER SUPPLY: EXPLORING DESIGN AND PUSHING BACK BOUNDARIES

Time 2:00pm–3:30pm

Room 14 A

- 2:00pm** Welcome and Introduction
Manfred Bächler, Managing Director, reniva GmbH, Germany
- 2:05pm** Moving Towards Renewables: What are the Advantages, Benefits and Issues for Hybrid Systems?
Richard Bird, Director, ComAp a.s., Australia
- 2:25pm** Solar & Diesel Hybrid Power Generation: Optimizing PV Penetration, Securing Stability, Keeping High Profitable Return on Investment (ROI)
David Goulielmakis, REC EMEAS Power System Senior Engineer, Schneider Electric, Canada
François Alihaud, REC EMEAS – Technical Tendering Director, Schneider Electric, Canada
- 2:45pm** A Nice Cup of Tea:
1MW PV/Diesel/Grid Hybrid Power Supply for a Tea Factory in Western Kenya
Prof. Dr. Daniel Davies, Director, East Africa, Solarcentury (East Africa), Kenya
- 3:05pm** Exploiting Synergies: Hybrid PV-Diesel Power Supply for Desalination Plants
Christian Scholz, Technical Consultant, Fichtner GmbH & Co. KG, Germany

Manfred
BächlerRichard
BirdDavid
GoulielmakisFrançois
AlihaudProf. Dr.
Daniel DaviesChristian
Scholz**Summary**

Global demand for diesel generators is estimated to reach 50 GW annually. Due to lower cost and a minimum of environmental impact among other factors, such diesel generators can be replaced by solar PV power plants. Speakers will provide insights into the design and limitations of current technical solutions of solar/diesel power systems in both off-grid i.e. for instance mini-grid system and on-grid as a back-up for the local power grid itself. Furthermore, what might be the future of so-called hybrid inverters designed to manage the interplay between a solar systems, a diesel generator and the local grid. Additionally, corresponding market demand and trends in countries across Asia, Africa and Latin-America will be highlighted.



WEDNESDAY, JUNE 10, 2015

Time 9:00am–10:30am

Room 13 A

Summary

This session will feature both achieved and anticipated technological innovations by cell and module manufacturers. Selected component manufacturer will showcase their latest technological developments. A highlight will be new cell concepts aiming at lowering costs while achieving further cell efficiency gains which are driving the demand for the development of new module types.

**PV CELL AND MODULE TECHNOLOGY –
NEW OPPORTUNITIES TO CUT COSTS AND IMPROVE PERFORMANCE**

- 9:00am** Welcome and Introduction
Prof. Dr. Gerhard Willeke, Manager Photovoltaics,
Fraunhofer Institute for Solar Energy Systems ISE, Germany
- 9:05am** High Efficiency Silicon Solar Cell and Module Developments to Decrease the LCOE of Installed System
Philippe Malbranche, General Director, CEA- INES, France
- 9:25am** High Efficiency Si-Heterojunction Technology – It's Ready for Mass Production
Boris Legradic, Development Engineer, Meyer Burger Research SA, Switzerland
- 9:45am** Panasonic's Photovoltaic Module HIT® with the World's Highest Level Efficiency
Dr. Shingo Okamoto, General Manager of Technology Development Group,
Panasonic Corporation, Japan
- 10:05am** Shade Robust Modules
Dr. Wilma Eerenstein, Coordinator PV Modules & Applications Development Program,
ECN (Energy Research Centre of the Netherlands), Netherlands

Prof. Dr.
Gerhard WillekePhilippe
MalbrancheDr. Shingo
OkamotoDr. Wilma
Eerenstein

Time 11:00am–12:30pm

Room 13 A

Summary

Presentations during this session will focus on the increasing complex nature of PV systems and the role of inverters, considered to be the backbone of each and every PV power plant, designed to ensure a continuing high performing PV power system. Speakers will elaborate on possible future technological concepts of AC/DC bus based systems, as well the technical adaption of inverters in order to accommodate systems exposed to different climatic conditions. Furthermore, new innovative concepts and achieved technological advancements of today's prevailing inverter technologies will be presented.

BALANCE OF SYSTEMS – CREATIVE SOLUTIONS TO CLIMATIC DIFFERENCES

- 11:00am** Welcome and Introduction
Prof. Bruno Burger, Energy Data and Strategic Development,
Fraunhofer Institute for Solar Energy Systems ISE, Germany
- 11:05am** System Technology Comparison for Commercial Rooftop Installations: Central, String, and Optimized Inverters
Tobias Henne, Vice President Technical Marketing and Products Europe,
SolarEdge Technologies GmbH, Germany
- 11:25am** Ultraveler-System – The Next Generation of PV Inverter Technology
Dr. Jörg Leonhardt, Head of Development, KACO new energy GmbH, Germany
- 11:45am** Optimized Inverter Integration = Maximized Return on Investment
Bernhard Voll, Platform Product Manager Medium Voltage Systems,
SMA Solar Technology AG, Germany
- 12:05pm** Balance of System Technology – Changing the Solar Industry O&M Game
Eleonora Denna, Product Marketing Manager Environmental Solution Business Europe,
Omron Europe B.V., Netherlands

Prof. Bruno
BurgerTobias
HenneDr. Jörg
LeonhardtBernhard
VollEleonora
Denna

PV POWER PLANTS – STRIKING THE RIGHT BALANCE DURING PLANNING

Time 2:00pm–3:30pm

Room **13 A**

- 2:00pm** Welcome and Introduction
Uwe Ilgemann, Managing Director, invecco, Germany
- 2:05pm** Quality Assurance Plan – Protecting Your Investment
Steven Xuereb, Head of Business Unit PV Systems, Photovoltaik Institut Berlin AG, Germany
- 2:25pm** Failure Statistics, Issues with Long-Term Operation of PV Plants
Nathalie Grün, Project Manager, meteocontrol GmbH, Germany
- 2:45pm** Introducing Grid Services
Bernhard Beck, Executive Chairman, BELECTRIC Holding GmbH, Germany
- 3:05pm** How Renewable Energy Information Systems will Help IPPs to go the Extra Mile without Jeopardizing Asset's Performance
Robert Urban, Director International Business Development, QOS ENERGY, France

Uwe
IlgemannSteven
XuerebNathalie
GrünBernhard
BeckRobert
Urban**Summary**

Speakers in this session will focus on commissioned PV power plants. Against this backdrop, at the core of this sessions are issues related to operation & maintenance management, cost optimization, how to deal with component suppliers having exited the market and re-powering of existing plants.

RENEWABLE ENERGY HYBRID POWER PLANTS

Time 4:00pm–5:45pm

Room **13 A**

- 4:00pm** Welcome and Introduction
Gaëtan Masson, Director, Becquerel Institute, Belgium
- 4:05pm** Solar-Hybrid Systems at a Glance: New Business Opportunities for Developers
Sebastian Schierenbeck, Project Manager, Apricum GmbH, Germany
- 4:25pm** Hybrid Power Generation in Microgrids: Integration Technology and Overview of Selected Projects
Pablo Astorga, Global Sales Manager Microgrids, Asea Brown Boveri (ABB), Spain
- 4:45pm** Hybrid Systems
Wolfgang Conrad, Chief Technology Officer, BELECTRIC Holding GmbH, Germany
- 5:05pm** Who Wins: AC or DC-Coupled Configuration in Hybrid Systems?
Douglas Wicks, Product Manager: Off-Grid and Battery-Based Inverters, Schneider Electric, France
- 5:25pm** Renewable Energy Hybrid Power Plants
Josefin Berg, Senior Research Analyst, IHS Solar, Spain

Gaëtan
MassonSebastian
SchierenbeckPablo
AstorgaWolfgang
ConradDouglas
WicksJosefin
Berg**Summary**

This session shall shed light on the growing trend towards the "Hybridisation" of renewable energy technologies. Potential benefits of different operating strategies and integration schemes as well selected existing projects shall be presented.

WEDNESDAY, JUNE 10, 2015

Time 9:00am–10:30am

Room **13 B****Summary**

The end of Feed-in-Tariffs in Europe is near! Caused by a number of factors leading to fundamental changes of the legislative landscapes across European countries, consequently makes conducting solar business in the downstream sector relatively complex and thus opens the door for new business models. This session will feature the drivers for such changes and will shed light on the evolving business models emerging in Europe.

Partner



NEW BUSINESS MODELS AND FINANCING DRIVE CHANGE ACROSS EUROPE

- 9:00am** Welcome and Introduction
Dr. Holger Klärner, Director of Solar on Roofs, E.ON Connecting Energies GmbH, Germany
- 9:05am** Tenders for Large Scale PV in Germany – Experiences from the Pilot Bidding
David Wedepohl, Director Communications and Markets,
German Solar Association (BSW-Solar), Germany
- 9:25am** New PV Business Models in Germany from an Energy Market Perspective
Tobias Kurth, Managing Director, Energy Brainpool GmbH & Co. KG, Germany
- 9:45am** Large-Scale PV Development
Thierry Lepercq, President, Solairedirect, France
- 10:05am** The Bright Future of Utilities
Roebym Anders, Vice President Development Sungevity International,
Sungevity Nederland, Netherlands

Dr. Holger
KlärnerDavid
WedepohlTobias
KurthThierry
LepercqRoebym
Anders

Time 11:00am–12:30pm

Room **13 B****Summary**

Topics in this session include trends in solar finance and asset management, the cost of capital, the role and impact of policy and risk premium for solar PV comprising residential, commercial and utility-scale projects throughout European markets among other burning issues.

IDENTIFYING NEW WAYS TO TAKE FINANCING & SECURISATION FORWARD ACROSS EUROPE

- 11:00am** Welcome and Introduction
Frauke Thies, Chief Policy Officer, European Photovoltaic Industry Association EPIA, Belgium
- 11:05am** Financing and Securitization of Solar PV Power Plants – Trends in the US
Tom Tansy, Chairman, SunSpec Alliance, U.S.
- 11:25am** Description of the Current Investors Market: Different Families of Investors and Their Respective Investment Guidelines
Nicolas Gourvitch, Co-Founder, Green Giraffe B.V., France
- 11:45am** Current Trends on Asset Management
Edmée Kelsey, Chief Executive Officer, 3megawatt, Germany
- 12:05pm** Discussion Round

Frauke
ThiesTom
TansyNicolas
GourvitchEdmée
Kelsey

SMART IDEAS IN A SMART ENERGY INFRASTRUCTURE

Time 2:00pm–3:30pm

Room **13 B**

- 2:00pm** Welcome and Introduction
Gerhard Stryi-Hipp, Head of Energy Policy and Head of Group Thermal Processes and Low Temperature Solar Thermal Energy, Fraunhofer Institute for Solar Energy Systems ISE, Germany
- 2:05pm** Smart Infrastructures
Gerhard Stryi-Hipp, Head of Energy Policy and Head of Group Thermal Processes and Low Temperature Solar Thermal Energy, Fraunhofer Institute for Solar Energy Systems ISE, Germany
- 2:25pm** Decentralised Solutions for the Challenges in a Future Smart Grid
Dr. Tanja Kneiske, Group Manager Multi-Utility Storage Systems, Fraunhofer Institute for Wind Energy and Energy System Technology IWES, Germany
- 2:45pm** Enabling the Participation of Distributed Renewable Generation into Energy Markets through Virtual Power Plants
Adrian Timbus, Segment Manager, Wind & Solar Automation, Asea Brown Boveri (ABB), Switzerland
- 3:05pm** Market-Ready Smart and Super Grid Technologies for a Balanced Interconnection of Heterogeneous Energy Resources
Dr. Wolfgang Krewel, Director Strategy & Marketing, Alstom Grid, Germany



Gerhard Stryi-Hipp



Dr. Tanja Kneiske



Adrian Timbus



Dr. Wolfgang Krewel

Summary

Key feature of this session is to provide insights and an assessment of implications to the existing grid infrastructure caused by an increasing proportion of electricity generated by decentralized PV systems. Speakers will shed light on this important topic from different angles.

SMART FUTURE: THE FASCINATING SIDES TO INTELLIGENT HOMES

Time 4:00pm–5:30pm

Room **13 B**

- 4:00pm** Welcome and Introduction
Prof. Dr. Gerhard Willeke, Manager Photovoltaics, Fraunhofer Institute for Solar Energy Systems ISE, Germany
- 4:05pm** Active Sites: Integrating Distributed Energy Resources into Smart Homes and Buildings
Leonardo Botti, Business Development Director Solar Inverters, Asea Brown Boveri (ABB), Italy
- 4:25pm** The Potential of Residential Demand Response for Self Consumption of PV Produced Energy
Dr. Pieter Vingerhoets, Post Doc, Energyville – KU Leuven, Belgium
- 4:45pm** Field Test Results of an Innovative PV-T Collector for Solar Domestic Hot Water
Laetitia Brottier, Head of Innovation and Research, DualSun, France
- 5:05pm** Forecast-Based PV Battery Control
Dr. Robert Kohrs, Head of Group Smart Grid Technology, Fraunhofer Institut für Solare Energiesysteme ISE, Deutschland



Prof. Dr. Gerhard Willeke



Leonardo Botti



Dr. Pieter Vingerhoets



Laetitia Brottier



Dr. Robert Kohrs

Summary

The future will be smart(er)! Smart in terms of how us, human beings will live, interact and eventually decide on when and how will use self-generated power. Living itself will be made smarter through the introduction of applications featuring functions allowing us in combination with internet-based applications to control the flow and consumption of energy in our homes at a time which ensures to real the greatest economical and environmental benefits. This session shall highlight the future interplay between ICT technologies, HVCDR household equipment and both solar PV and solar thermal applications.

WEDNESDAY, JUNE 10, 2015

Time 9:00am–10:30am

Room 14 C

Summary

Storage solutions on a district and utility scale level as well as in combination with renewable energy power plants for tailored feed-in within direct marketing models are of prime importance when high fractions of renewables shall be achieved. This session will feature selected projects dealing with large scale storage applications and provide an insight to the related business models as well as to the gained field experiences with such systems.

EES: INSIGHTS AND EXPERIENCES WITH LARGE SCALE APPLICATIONS

- 9:00am** Welcome and Introduction
Dr. Wolfgang Weydanz, Senior Scientist, Siemens AG, Germany
- 9:05am** Enhancing Solar Contribution in PV-Diesel Hybrid Power Plants with Advanced Li-Ion Energy Storage Systems
Michael Lippert, Marketing and Business Development Manager, Saft SA, France
- 9:25am** Strombank – A Giro Account for Renewable Energy
Dr. Robert Thomann, Innovation Manager, MVV Energie AG, Germany
Dr. Jens Kistner, Head of Product and Project Management Energy Storage, ads-tec GmbH, Germany
- 9:45am** The Role of Residential Energy Storage in Increasing PV Market
Frank Baumann, Sales Director – Energy Storage, Samsung SDI Europe GmbH, Germany
- 10:05am** Energy Storage on the Grid
Roger Lin, Director, Product Marketing, NEC Energy Solutions, Inc., U.S.



Dr. Wolfgang Weydanz



Michael Lippert



Dr. Robert Thomann



Frank Baumann



Roger Lin

Time 11:00am–12:30pm

Room 14 C

Summary

Within this session an overview on the actual status of safety standards will be given, the need of further investigations and developments will be highlighted and relevant projects, providing solutions, will be presented.

EES: SAFETY & STANDARDS – NECESSARY DEVELOPMENTS FOR TODAY AND TOMORROW

- 11:00am** Welcome and Introduction
Dr. Valentina Gentili, Principal Scientist, Johnson Matthey Battery Systems Ltd, Scotland, UK
- 11:05am** Safety Requirements for Electrical Energy Storage Systems
Ralf Martin Müller, Business Field Manager Solar Fuel Cell Technology, TÜV Rheinland LGA Products GmbH, Germany
- 11:25am** Possibilities for Agglomeration and Centralized Control of Distributed Storage Systems – Experiences from Field Test and an Outlook to the Future VHP Ready Standard
Tobias Blank, Project Engineer, E.ON Technologies GmbH, Germany
- 11:45am** Safety Analysis According to IEC
Dr. Andreas Gutsch, Coordinator Competence E, Karlsruher Institut für Technologie (KIT), Germany
- 12:05pm** Discussion Round



Dr. Valentina Gentili



Ralf Martin Müller



Tobias Blank



Dr. Andreas Gutsch

EES: ADVANCEMENTS MADE IN PRODUCTION TECHNOLOGIES AND NEW DEVELOPMENTS

Time 2:00pm–3:30pm

Room 14 C

- 2:00pm** Welcome and Price Experience Curve for Li-Ion Batteries
Dr. Winfried Hoffmann, Chairman Supervisory Board, Solar-Fabrik AG, Germany
- 2:10pm** Producing a Novel Sustainable Lithium
Julien Davy, President & Chief Operating Officer, Stria Lithium Inc., Canada
- 2:30pm** Battery Production – Challenges and Opportunities
Albrecht Werner, Vice President Sales and Business Development Battery, Manz AG, Germany
- 2:50pm** Optimized Formation of Lithium-Ion Cells
Stephan Lux, Head of Team Battery Battery Modules and Systems, Fraunhofer Institute for Solar Energy Systems ISE, Germany
- 3:10pm** Benefits of Strategic Partnerships – A Practical Example
Golo Wahl, Senior Director Business Development, Flextronics – Power Systems Technologies GmbH, Germany
Bruce Ebzery, Vice President Business Development, RedFlow Limited, Australia



Dr. Winfried Hoffmann



Julien Davy



Stephan Lux



Golo Wahl



Bruce Ebzery

Summary

Highly automated, precise and reliable production of storage devices is of vital importance for large-scale penetration of energy markets with cost-efficient storage solutions. Exemplarily this session will focus on the achievements gained for the mass production of lithium-ion cells as well as modules. Especially the actual status for large-sized cells in difference to the 18650 cells will be highlighted. Finally selected cost-intensive production steps such as the formation process will be discussed.

EES: UNDERSTANDING LIFE CYCLE FACTORS & BATTERY RECYCLING CONCEPTS

Time 4:00pm–5:30pm

Room 14 C

- 4:00pm** Welcome and Introduction
Dr. Wolfgang Weydanz, Senior Scientist, Siemens AG, Germany
- 4:05pm** Understanding the Lifetime of Li-Ion Batteries
Prof. Dr. Andreas Jossen, Chair Energy Storage Technology, Technische Universität München (TUM), Germany
- 4:25pm** End-of Life and Second Life of Lithium Ion Batteries: From Electrodes to Electrodes.
Prof. Dr. Farouk Tedjar, Founder, Scientific Director, RECUPYL SAS, France
- 4:45pm** Second-Life Electric Vehicle Batteries: A Huge Opportunity for Behind-the-Meter Solar Energy Storage Systems
Francois Barsacq, Chief Executive Officer, easyLi Batteries, France
- 5:05pm** European Battery Legislation vs. New Battery Technology?
Stefanie Enders, Legal Counsel, 1cc GmbH, Germany



Dr. Wolfgang Weydanz



Prof. Dr. Andreas Jossen



Prof. Dr. Farouk Tedjar



Francois Barsacq



Stefanie Enders

Summary

As energy storages are on the way to enter the mass market life cycle assessment is crucial to determine their ecological impact and their environmental performance. The considerations include key materials, components and systems as well as the environmental efficiency during the operation phase. Furthermore concepts for a secondary-use of aged EV batteries and approaches for battery recycling will be discussed.

| CONFERENCE SIDE-EVENTS

MONDAY, JUNE 8, 2015

**Power Electronics for Photovoltaics**

Time 9:00am–5:45pm
 Venue NH Hotel Munich
 Participation €1,050
 Organizer Ostbayerisches Technologie-Transfer-Institut e.V.
 (OTTI)

TUESDAY, JUNE 9, 2015

**4th Symposium Small PV Application –
Rural Electrification and Commercial Use**

Time 8:00am–6:45pm
 Venue ICM, room 4
 Participation €650
 Organizer Ostbayerisches Technologie-Transfer-Institut e.V.
 (OTTI)

PV Module Reliability and System Performance Analysis

Time 2:00pm–5:30pm
 Venue ICM, room 13A
 Participation Free of charge
 Organizer IEA – International Energy Agency,
 TÜV Rheinland Energie und Umwelt GmbH

**Power Electronics for Photovoltaics**

Time 8:30am–6:00pm
 Venue NH Hotel Munich
 Participation €1,050
 Organizer Ostbayerisches Technologie-Transfer-Institut e.V.
 (OTTI)

WEDNESDAY, JUNE 9, 2015

**4th Symposium Small PV Application –
Rural Electrification and Commercial Use**

Time 9:00am–1:00pm
 Venue ICM, room 4
 Participation €650
 Organizer Ostbayerisches Technologie-Transfer-Institut e.V.
 (OTTI)

Workshop Solutions to Fully Flexible CIGS Solar Modules

Time 9:30am–12:30pm
 Venue ICM, room 2
 Participation Free of charge, registration required
 Organizer TU Wien, Accademia Europea di Bolzano

**SolarDesign Workshop Customizable Photovoltaics for
Visionary Architecture and Product Design**

Time 1:30pm–5:30pm
 Venue ICM, room 2
 Participation Free of charge
 Organizer TU Wien, Accademia Europea di Bolzano



THURSDAY, JUNE 11, 2015

**Invest in Brasil – Photovoltaics**

Time 8:30am–4:00pm
 Venue ICM, room 11
 Participation Free of charge, registration required
 Organizer APEX Brasil

**Intersolar Study Program**

Time 9:00am–11:00am
 Venue ICM, room 4
 Participation Free of charge, registration required
 Organizer Solar Promotion GmbH

**14th Pellets Industry Forum**

Time 10:00am–5:00pm
 Venue ICM, room 14A/C
 Participation €450
 Organizer Solar Promotion GmbH

**India's 100GW Solar Target –
Policy, Business Opportunities and Finance**

Time 2:00pm–5:00pm
 Venue ICM, room 3
 Participation Free of charge, registration required
 Organizer Indo-German Energy Forum

**SOLAR BANKABILITY SUMMIT – Improving the
Investment Rating of Photovoltaic Systems**

Time 2:00pm–5:30pm
 Venue ICM, room 5
 Participation Free of charge
 Organizer European Photovoltaic Industry Association
(EPIA) & SunSpec Alliance



FRIDAY, JUNE 12, 2015

**ENplus-Conference**

Time 9:30am–4:00pm
 Venue ICM, room 14A
 Participation €275
 Organizer German Energy Wood and Pellet Association
(DEPV)

**Workshop: Solarbetreiber: Eine starke Gemeinschaft –
Praxistipps für Photovoltaik-Nutzer**

Time 10:00am–1:00pm
 Venue ICM, room 4
 Participation Free of charge, registration required
 Organizer DSC Deutscher Solar Betreiber Club e.V.,
Bauzentrum München

**3rd International ENplus Auditors' Workshop**

Time 9:00am–4:30pm
 Venue ICM, room 14C
 Participation Free of charge, for ENplus Auditors only!
 Organizer European Pellet Council

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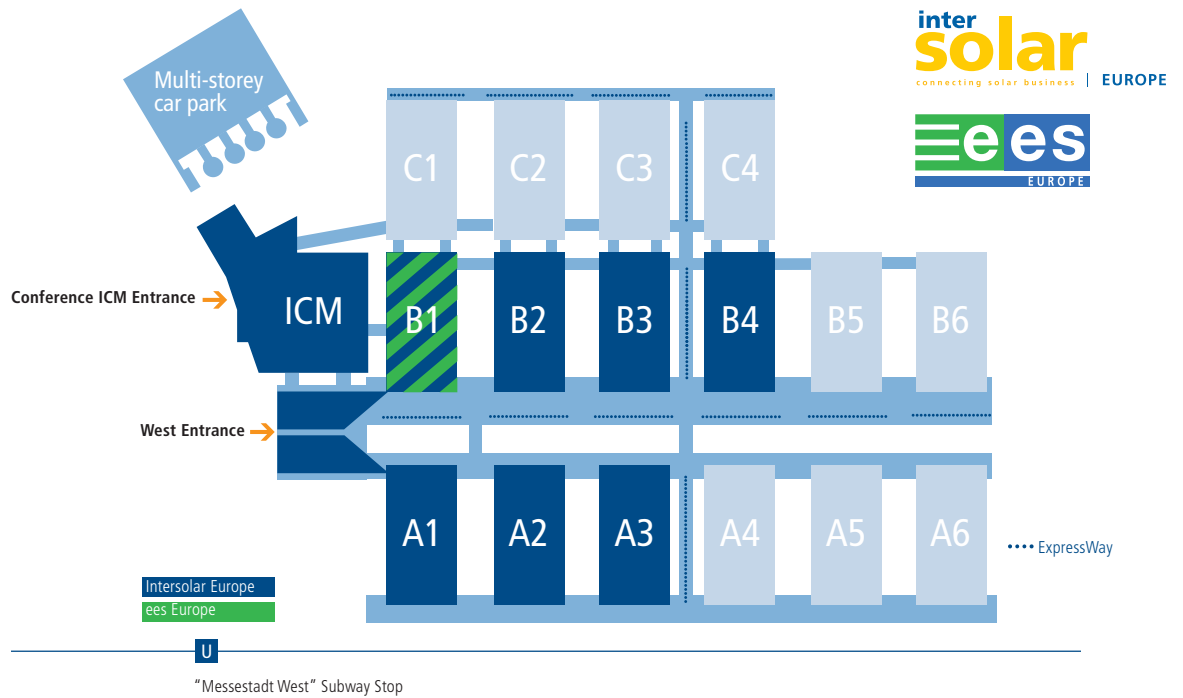
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VENUE MAP



EXHIBITION QUICK FACTS

Dates	June 10–12, 2015
Hours	Wednesday June 10, 2015 9:00am–6:00pm
	Thursday June 11, 2015 9:00am–6:00pm
	Friday June 12, 2015 9:00am–5:00pm
Venue	Messe München
	81823 Munich, Germany Halls A1–A3, B1–B4
Exhibitors	1,000 (expected)
Exhibition Area	72,000 sqm
Visitors	40,000 (expected)
Areas of Focus	Photovoltaics
	PV Production Technologies
	Energy Storage Systems
	Renewable Heating

Organizers



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Wednesday, June 10, 2015, 4:30pm
Innovation Exchange, Hall B3, Booth B3.450



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about the finalists here!

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