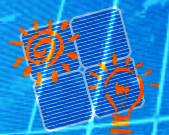


The Solar Power Utility

5th IEA PVPS Executive Conference
Montreux, Switzerland
June 8-9, 2010



Programme



IEA International Energy Agency
Photovoltaic Power Systems Programme

Conference Outline

Global photovoltaic solar electricity markets have grown strongly in recent years thanks to supportive policies in a number of countries. The imperative to continue to grow rapidly is now firmly on the political agenda, and the IEA's solar PV roadmap estimates that PV can provide more than 10 % of global electricity production within the next decades.

A large-scale deployment of grid-connected PV will critically depend on the electricity utilities taking on key facilitating and development roles. Electricity utilities are actively exploring a range of business models for their involvement with PV – from large-scale utility plants to ownership and financing options with selected customers to various power purchase models.

The 5th IEA PVPS Executive Conference, The Solar PV Utility, will facilitate a fruitful dialogue between key stakeholders and aims at encouraging electricity utilities worldwide to become champions for both the deployment of PV generation and the creation of healthy customer markets for solar PV electricity.

Building on the success of previous events, the 5th IEA PVPS Executive Conference will provide a unique international forum for decision makers and executives from a variety of professional backgrounds to exchange experience and explore new business opportunities.

We look forward to welcoming you in Montreux on the beautiful shores of Lake Geneva in Switzerland!

Stefan Nowak
Chairman IEA PVPS



Programme Plenary Sessions 8 June 2010

09.00 **Welcome Coffee**

09.30 **Conference Welcome & Introduction**
Mr. Stefan Nowak, Chairman IEA PVPS, Switzerland

09.40 - **Plenary I – Keynote Session**
11.20 Chairperson: Mr. Stefan Nowak, IEA PVPS, Switzerland

Swiss Strategy in Field of Renewable Energies
Mr. Walter Steinmann, Director, Swiss Federal Office of Energy

The Role of Solar Energy in Decarbonising the Electricity Sector
Mr. Didier Houssin, Director Energy Markets and Security, IEA, France

Stepping Up Photovoltaics to Mainstream Power Generation
Mr. Stefan Tostmann, DG Energy, European Commission

The Future Development of Renewables
Mr. Francesco Starace, CEO ENEL Green Power, Italy

Leading the Way to Sustainable Value: A Roadmap to Grid Parity
Mr. TK Kallenbach, Executive Vice President First Solar, USA

11.20 **Coffee Break**



Programme Plenary Sessions 8 June 2010

11.50 -
13.00

**Plenary II – Setting the Scene:
PV Markets and Regulatory Frameworks**
Chairperson: Mr. Didier Houssin, IEA, France

Europe's Contribution to Empower PV as a Mainstream Electricity Provider
Mr. Winfried Hoffmann, Vice-President EPIA, Applied Materials, Germany

PV's Role in the U.S. Electric Industry
Ms. Julia Hamm, Executive Director, SEPA, USA

PV Market and Policy in Japan
Mr. Osamu Ikki, President, RTS, Japan

13.00

Break / Lunch

14.15 -
15.45

**Plenary III – PV from the Utility Perspective:
Utility Business Cases**
Chairperson: Mr. Roberto Vigotti, IEA REWP, Italy

PV from the Utility's Perspective
Mr. David Rubin, Director, Pacific Gas and Electric, USA

PV in Australian Regional Networks - Challenges and Opportunities
Ms. Michelle Taylor, Ergon Energy, Australia

Impact of PV High Penetration on Power Systems
Mr. Satoshi Morozumi, Director for Grid-Connected Power Systems,
NEDO, Japan

Introduction to Workshops
Mr. Hubert Fechner, IEA PVPS Austria

15.45

Coffee Break

16.15

Parallel Workshops A, B, C (see next page)

18.00

End of 1st Conference Day

18.30

Departure for the Conference Dinner



Programme Conference Workshops

8 June 2010

16.15 -
18.00

Workshop A: Utility Business Models
Chairperson: Ms. Julia Hamm, SEPA, USA
Rapporteur: Mr. Peter Ahm, IEA PVPS Denmark

(Room Salon Gris)

PG&E and Solar

Mr. David Rubin, Director, Pacific Gas and Electric, USA

oekostrom Solar Partner – The Experience of 500 PV Power Pro-sumers and a New Kind of Power Utility

Mr. Ulfert Höhne, Austria

Electric Vehicles as Buffer Storage for Renewables - a Win-Win for the Customer and the Grid

Mr. Johannes Eckstein, New Technologies, E.ON, Germany

Expected Outcomes:

- Business opportunities for utilities, today and tomorrow, and key issues for those opportunities
- International cooperation needs within IEA PVPS

16.15 -
18.00

Workshop B: High Penetration PV – A Challenge for Utility Networks?
Chairperson: Mr. Leon Roose, Hawaiian Electric Company, USA
Rapporteur: Mr. Roland Bründlinger, IEA PVPS Task 14, Austria

(Room 4 Seasons)

Enabling the Grids for more PV – Elements of the Strategic Approach from the Inverter Manufacturer's Point of View

Mr. Olivier Führer, SMA, Germany

High PV Penetration on Isolated Grids - The Hawaii Experience

Mr. Leon Roose, Hawaiian Electric Company, USA

Expected Outcomes:

- Challenges and solutions to high penetration of PV in utility networks
- International cooperation needs within IEA PVPS

16.15 -
18.00

Workshop C: PV Roadmaps: The Role of PV in the Electricity Networks of 2030
Chairperson: Mr. Stefan Nowak, IEA PVPS, Switzerland
Rapporteur: Mr. Greg Watt, IEA PVPS Task 1, Australia

(Room Riviera)

Advancing Deployment and Innovation – The IEA PV Roadmap

Mr. Paolo Frankl, RE Division Head, IEA, France

Towards a Smart Community

Mr. Fumiaki Ishida, General Director, NEDO, Japan

Expected Outcomes:

- Identification of differences between roadmaps and needs for consolidation
- International cooperation needs within IEA PVPS

Programme Plenary Sessions 9 June 2010

09.00 - 11.00 Parallel Workshops D, E, F (see next page)

11.00 Coffee Break

11.30 - 12.30 Plenary IV – Workshop Rapporteurs
Chairperson: Mr. Fumiaki Ishida, NEDO, Japan

Workshop A Mr. Peter Ahm, IEA PVPS Denmark

Workshop B Mr. Roland Bründlinger, IEA PVPS Task 14, Austria

Workshop C Mr. Greg Watt, IEA PVPS Task 1, Australia

Workshop D Mr. Linus Palmblad, IEA PVPS Sweden

Workshop E Mr. Hubert Fehner, IEA PVPS Austria

Workshop F Ms. Jennifer DeCesaro, DOE, USA

12.30 Break / Lunch

14.00 - 16.00 Plenary V – The Road Ahead:
Contributions of PV in Electricity Networks
Chairperson: Mr. Hubert Fehner, IEA PVPS Austria

The Solar Europe Industry Initiative: Preparing for Impact
PV Technology Development and Demonstration for Large-Scale Use by 2020 and Beyond
Mr. Wim Sinke, Chairman EU PV Technology Platform, Netherlands

The Future of PV in the U.S.:
Policies and Programs to Enable High Penetration of Solar Technologies
Mr. John Lushetsky, DOE, USA

Engaging the Industry to Enable Increased Penetration of Distributed PV, through Research, Development, Demonstrations & Applications
Ms. Karen R. Forsten, EPRI, USA

One Life Cycle Model of PV Generation in Electricity Network
Mr. Tetsuroh Muramatsu, Executive Officer, Solar Systems Development Group, Sharp Corporation, Japan

Utility PV Applications: From Distributed Solar up to XXL Power Plants
Mr. Roberto Vigotti, IEA REWP, Italy

Conference Wrap-Up
Mr. Stefan Nowak, IEA PVPS, Switzerland

16.00 End of 2nd Conference Day

Programme Conference Workshops

9 June 2010

09.00 -
11.00

Workshop D: Showcase Projects: Lessons Learned and Key Success Factors
Chairperson: Mr. Eric Peirano, ADEME, France
Rapporteur: Mr. Linus Palmblad, IEA PVPS Sweden *(Room Salon Gris)*

EcoGrid EU - A Prototype for European Smart Grids

Mr. Jesper B. Sørensen, Energinet.dk, Denmark

The Potential of VLSPV Plants in the Mena Region: The Jordan Case Study

Mr. Michele Appendino, Solar Ventures, Italy

Expected Outcomes:

- Lessons learned from ongoing projects
- Identification of key success factors
- International cooperation needs within IEA PVPS

09.00 -
11.00

Workshop E: Smart Electricity Networks – Enabling High Penetration PV
Chairperson: Mr. Dan Ton, DoE, USA
Rapporteur: Mr. Hubert Fechner, IEA PVPS Austria *(Room 4 Seasons)*

The Requirements for PV Inverters in Future Smart Grids - Challenges and Opportunities

Mr. Christoph Panhuber, Fronius, Austria

Technical Challenges and Solutions for Integrating High Levels of PV in Electrical Grids

Mr. Benjamin Kroposki, NREL, USA

PV Penetration and Power System Evolution

Mr. Kazuhiko Ogimoto, Institute of Industrial Science (IIS), Tokyo, Japan

Expected Outcomes:

- Technical challenges and solutions
- Grid codes
- International cooperation needs within IEA PVPS

09.00 -
11.00

Workshop F: Government Policies for PV – Preparing the Next Decade
Chairperson: Mr. Gilles Jean, CanmetENERGY, Canada
Rapporteur: Ms. Jennifer DeCesaro, DOE, USA *(Room Riviera)*

Solar Electricity – Opportunities and Challenges in an Australian Context

Ms. Jenny Goddard, Australian Solar Institute, Australia

Solar Energy Development in the Asia and Pacific Developing Countries

Mr. Naoki Sakai, Asian Development Bank, Philippines

Expected Outcomes:

- Policy drivers and requirements for PV
- Needs for policy changes as grid-parity is achieved
- International cooperation needs within IEA PVPS

How to Get to the Grand Hôtel Suisse Majestic Montreux

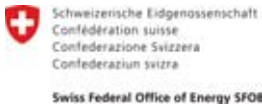
Arriving at Geneva International Airport (www.gva.ch)

Go to the railway station at the airport. Take the direct train to Montreux (2 every hour, 70 minutes travel time). Step off the train in Montreux and the hotel is directly across the street from the station.

Arriving at Zurich International Airport (www.zurich-airport.com)

Go to the railway station at the airport. Take the train via Berne to Lausanne (2 every hour, 170 minutes travel time). Change trains at Lausanne for a train to Montreux. Step off the train in Montreux and the hotel is directly across the street from the station.

Partners



Contact

For more information,
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Up-to-Date Programme: www.iea-pvps.org/executive-conference