



TASK 1: STRATEGIC PV ANALYSIS & OUTREACH



IEA PVPS Task 1 at EU-PVSEC 2016 - Munich, Germany

**“Enhancing PV Competitiveness with Energy Storage”**

Day: Monday 20 June 2016  
Time: 13h30-17h15  
Site: CCM  
Access: Open to all registered participants of the EU PVSEC 2016

Grid parity has been reached in some market segments but the real competitiveness of PV solutions has not been achieved yet everywhere. This workshop aims at redefining the concepts of competitiveness for PV solutions in the light of the last self-consumption regulations and the super-competitive tenders seen in Germany, India, the USA, the UAE or recently in Mexico and Peru. In addition, the shift towards decentralized PV that several countries are attempting requires an in-depth look into the possibilities of energy storage, through batteries, but also energy storage in buildings or embedded in the grid.

As an official event of the 32nd EU PVSEC, this PVPS Programme Workshop is jointly organised by IEA - International Energy Agency and the EU PVSEC. Partners: IEA-SHC.

**Agenda**

**13.30 Welcome Speech & the Role of the IEA PVPS Program** Stefan Nowak, IEA-PVPS Chairman

**Session 1 – From grid parity to Competitiveness**

This session will explore the questions of competitiveness of PV through its main aspects: the declining PV system prices through learning curve analysis, the evolution of LCOE in the coming years and its drivers. The question of competitiveness will be approached through regulatory aspects, technical aspects including the impact on grid costs and electricity integration aspects.

**Competitiveness of PV systems in Europe – Eero Vartianen – Fortum**

**A methodology to assess PV growth in emerging countries - Chris Werner – CW Consulting**

**The rise of super-competitive PV tenders, Grégoire Biez - EDF-Energies Nouvelles**

**Perspectives for cost decline in the PV industry – Pierre Verlinden – Trina Solar**

**PV costs and competitiveness - Paolo Frankl – International Energy Agency**

**15.00 Coffee-Break**

**15.30 Key note:  
On the role of solar PV and storage for achieving net zero emissions - Christian Breyer – LUT**

**Session 2 – Enhanced Competitiveness with Storage Options**

This session will explore how storage can support PV development. The experience from short-term distributed storage in Germany will be detailed. The options for energy storage in the buildings or electric vehicles will be assessed while the question of embedding storage inside the grid to support PV development will be questioned. At the end the question of storage technologies and competitiveness will be discussed.

**Storage as a way towards energy-independent multi-family houses – Pius Hüsler - Nova Energie, Switzerland**

**PV plus electricity storage, a Japanese case – Izumi Kaizuka – RTS Corporation, Japan**



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**Enhancing PV competitiveness with energy storage in buildings – Pedro Vicente Quiles – UMH**

**„Business Lab Germany – New Business Models in digitized and distributed electricity markets” Stefan Franz – Büro F - Germany**

**17.00 Closing Speech** Stefan Nowak, IEA-PVPS Chairman, Net Energy, Switzerland

Moderators: Gaëtan Masson and Johan Lindahl, IEA PVPS Task 1

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