IEA PVPS

Global co-operation towards sustainable deployment of photovoltaic power systems

Stefan Nowak, Chairman IEA PVPS
The IEA PVPS Mission

To enhance the international collaboration efforts through which photovoltaic solar energy becomes a significant renewable energy option in the near future
IEA PVPS in brief

• One of > 40 IEA Programmes on technology co-operation
• 25 members: 22 countries, EC, EPIA, SEPA
• Most recent member: China
• Activities are carried out collaboratively on a country basis along a number of technical and non-technical subjects
• Currently, 7 Tasks are active
The PVPS Objectives

• To stimulate activities that will facilitate a cost reduction of PV power systems applications;

• To increase the awareness of PV’s potential and value and thereby provide advice to decision makers from government, utilities and international organisations;

• To foster the removal of technical and non-technical barriers of PV power systems for the emerging applications in OECD countries;

• To enhance co-operation with non-OECD countries and address both technical and non-technical issues of PV applications in those countries.
PVPS dimensions of activities

Technology

Industry

Markets

Policy
IEA PVPS Tasks

- Task 1 - Exchange and dissemination of information on PV power systems
- Task 2 - Operational performance, maintenance and sizing of PV power systems and subsystems (concluded 2008)
- Task 3 - Use of PV power systems in stand-alone and island applications (concluded 2004)
- Task 5 - Grid interconnection of building integrated and other dispersed PV systems (concluded 2001)
- Task 6 - Design and operation of modular PV plants for large scale power generation (concluded 1997)
- Task 7 - PV power systems in the built environment (concluded 2001)
- Task 8 - Very large scale PV power generation systems
- Task 9 - Deployment of PV technologies: co-operation with developing countries
- Task 10 - Urban Scale PV Applications (concluded 2009)
- Task 11 - PV hybrid systems within mini-grids
- Task 12 - PV environmental, health & safety activities
- Task 13 - PV performance, quality and reliability (new 2010)
- Task 14 - High-penetration of PV systems in electricity grids (new 2010)
Conference wrap-up

Insights
- Underestimation
- Potential
- Visions
- Market & Industry Initiatives
- Grid parity
- Mainstreaming

Areas
- Technology
- Policy
- Finance
- Communication

Further Stakeholders
- Regulators
- Finance
- Customers

International co-operation
- Business models
- Financing
- Transition policies
- Engaging with industry and finance
IEA PV Roadmap
IEA PV Roadmap Vision

PV cumulative installed capacity to reach 900 GW in 2030 and 3000 GW in 2050
If sound policies are put in place, PV can provide 5% of global electricity generation in 2030, 11% in 2050
Global network of expertise

Broad variety of stakeholders

Independent, objective, neutral

Country based, task-shared

Analysis

Recommendations

Communication & interaction
Thank you for your attention!

- http://www.iea-pvps.org
- http://www.iea.org

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