IEA PVPS
Global co-operation towards sustainable deployment of photovoltaic power systems

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IEA PVPS Executive Committee
IEA PVPS

- 29 members: 24 countries, EC, EPIA, SEPA, SEIA, Copper Alliance
- Activities are carried out collaboratively on a country basis along a number of technical and non-technical subjects
- Currently, 7 Tasks are active
- PVPS mobilizes about 140 experts and 4 MUSD/year
The PVPS Objectives

- PV Technology development
- Competitive PV markets
- An environmentally and economically sustainable PV industry
- Policy recommendations and strategies
- Impartial and reliable information
Present IEA PVPS Tasks

- Task 1 – Strategic PV Analysis and Outreach
- Task 8 - Very large scale PV power generation systems
- Task 9 - Deployment of PV technologies: co-operation with emerging markets
- Task 12 - PV environmental, health & safety activities
- Task 13 - PV performance, quality and reliability
- Task 14 - High-penetration of PV systems in electricity grids
- Task 15 - Accelerating BIPV
IEA PVPS focus reflects the PV technology context

• The societal and political scene in member countries change fast
• Energy technologies and markets changes fast and changes maybe accelerating
• PV’s – technology and economics – change very fast
• PVPS tries to be in the frontline of these changes
New vision: PV grows faster and beyond previous scenario
A few visionary statements

- Mrs. Hillary Clinton mid 2015: RE to power all US homes in 10 years – 500 million PV modules inside 4 years, up 700% from 2015.
- China PV Road Map: 2.000 – 3.000 GW of PV by 2050.
- Deutsche Bank: PV will reach grid parity in 80 % of the global power market by 2017.
PV and Utilities

• From a baby needing support PV is now growing up
• PV expected to be a major global power technology
• Utilities – today responsible for power – are crucial actors
• The role of utilities is very different from region to region: liberalized markets to monopolies
PV Market Development

2014 Global PV Evolution

As of the end of 2014

177 GW
Have been installed all over the world

and only in 2014

38,7 GW
Have been installed in the world

20 countries have now passed the 1 GW mark of cumulative PV systems capacity at the end of 2014 and 5 countries installed at least 1 GW in 2014 (compared to 9 in 2013)

In 2014 the top 3 world countries, which are also part of the IEA PVPS program were:

1. China 10,6 GW
2. Japan 9,7 GW
3. USA 6,2 GW
Recent Key Numbers for Utility Scale PV

- RSA, Juwi: 558 kW (track.) @ $c 7,46/kWh
- Dubai, ACWA Power: 200 MW @ $c 5,98/kWh
- USA, First Solar: 100 MW (TF) @ $c 3,84/kWh

Why this trend? Not only falling cost of PV
- Optimized EPC
- Reduced soft cost
- Cheaper financing
To days workshop aims at:

- Introducing IEA PVPS to APAC utilities, regulators and authorities as a reliable resource on PV information
- De-mystifying PV for utilities
- Create a dialogue between PVPS and APAC utilities on issues where needed
- Encourage APAC countries interested in PV to join the IEA PVPS
Workshop targets

- Present a global overview of PV
- But more important:
  - Address the issues APAC utilities, regulators and authorities encounter when facing PV’s
- Hopefully establish a more long term dialogue to help solving same issues
Thank you for your attention and wishing you all a rewarding workshop

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

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