

# 2011 PVPS Trends Report:

Highlights from the latest survey of PVPS Task 1



November 6<sup>th</sup>, 2012 PVPS@PVSEC-22, Hangzhou, China

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- Overview of IEA PVPS Task1
- Trends Report 2011
  - Survey method
  - Highlights:
    - The market, PV industry, policy, utilities business models and communities efforts
- Future plans



# International PV information exchange and dissemination (Task 1)

 PV information from 23 participating countries on national markets, public budgets, industry, prices, economic benefits, policy initiatives, electricity utility activities, standards and codes, and R&D activities

 Range of information tools including workshops, newsletters, reports, website and fact sheets





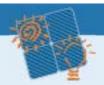
# Latest workshop: EUPVSEC, Frankfurt



- PV in the Electricity Sector
- Policy / regulatory / business approaches (in reduced FiT or post-FiT market?)
- Self consumption or Netmetering : the key for sustainable transition ?



Presentations are available at www.iea-pvps.org



### PVPS@PVSEC

### First PVPS workshop was held in Shanghai

2005: PVPS@PVSEC-15, Shanghai China

2007: PVPS@PVSEC-17, Fukuoka, Japan

2008: PVPS@PVSEC-18, Kolkata, India

2008: PVPS@PVSEC-19, Jeju Korea

2011: PVPS@PVSEC-21, Fukuoka, Japan

2012: PVPS@PVSEC-22, Hangzhou, China



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**Trends Report** 

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Implementation of PV systems

The PV industry

Policy, regulatory and business framework for deployment

Summary of trends

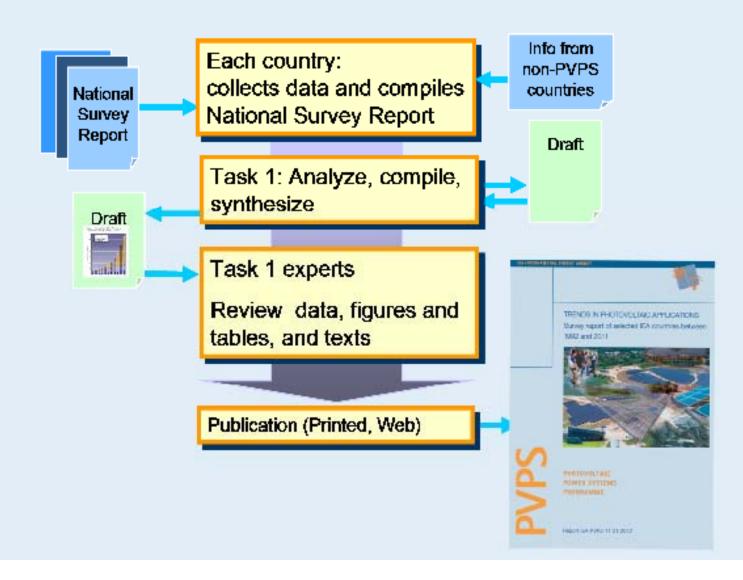
6-P-4、PVSEC-22 Wed. 7<sup>th</sup> Nov

Visit www.iea.org for downloading

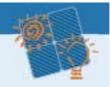




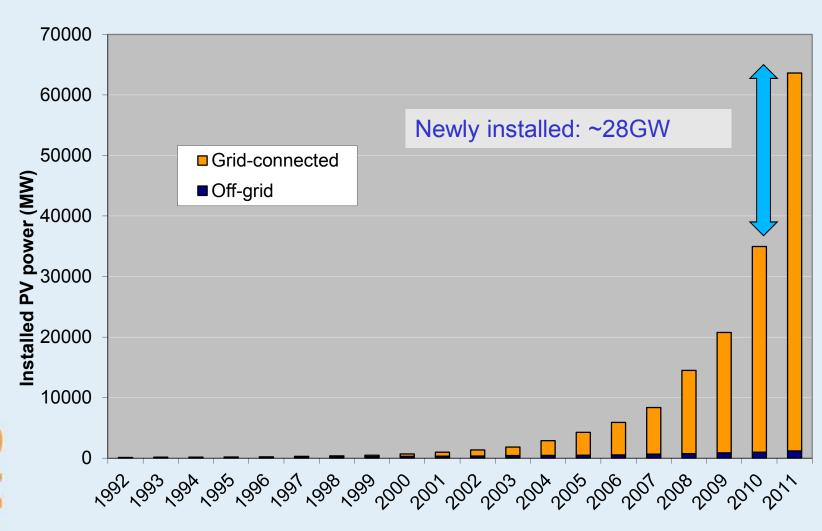
# Survey approach





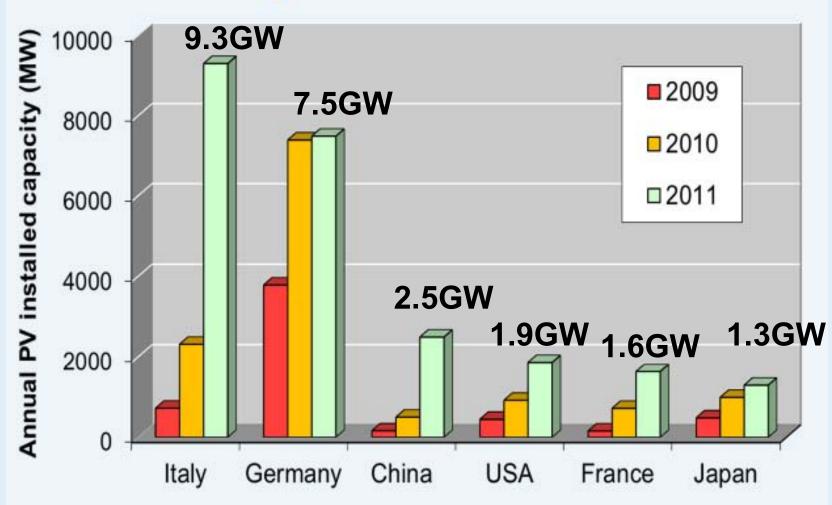


#### Cumulative installed capacity reached 63.6GW



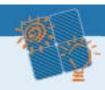
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## Market development in GW countries



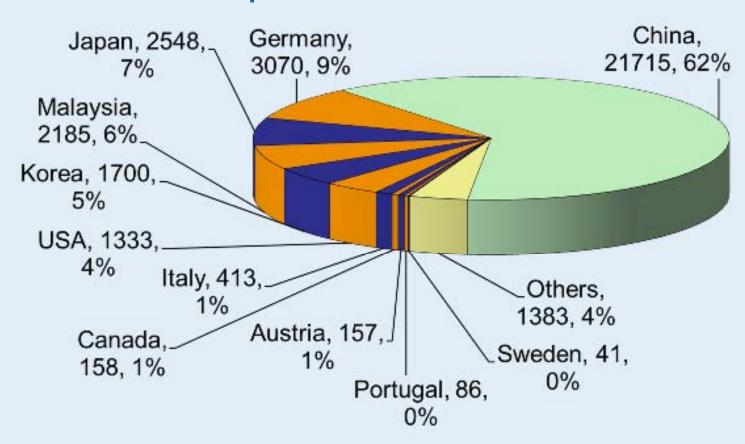
**PVPS** 

Source: IEA PVPS Task 1, Trends report 2011



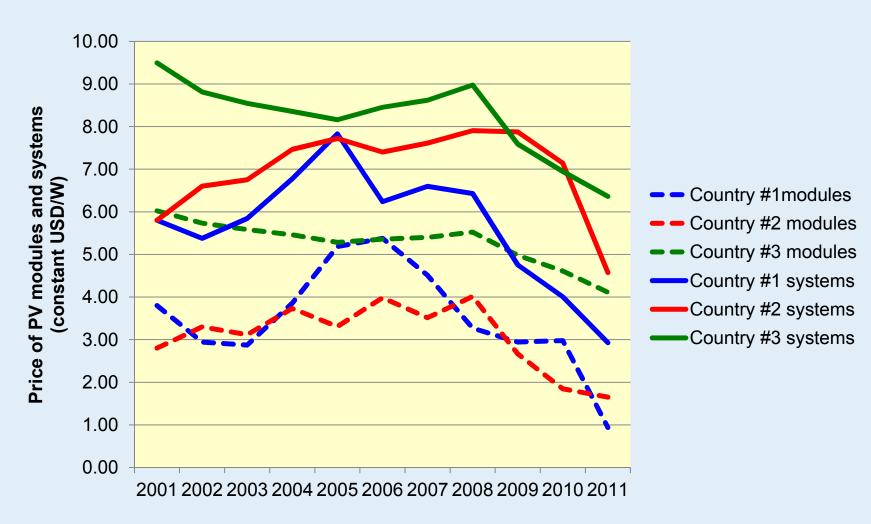
# PV module production

#### PV module production: ~34 GW

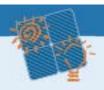




# Trends of prices



PVPS



# Support measures

#### **Enhanced feed-in tariffs**

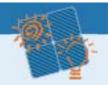
Direct capital subsidies

Tax credits

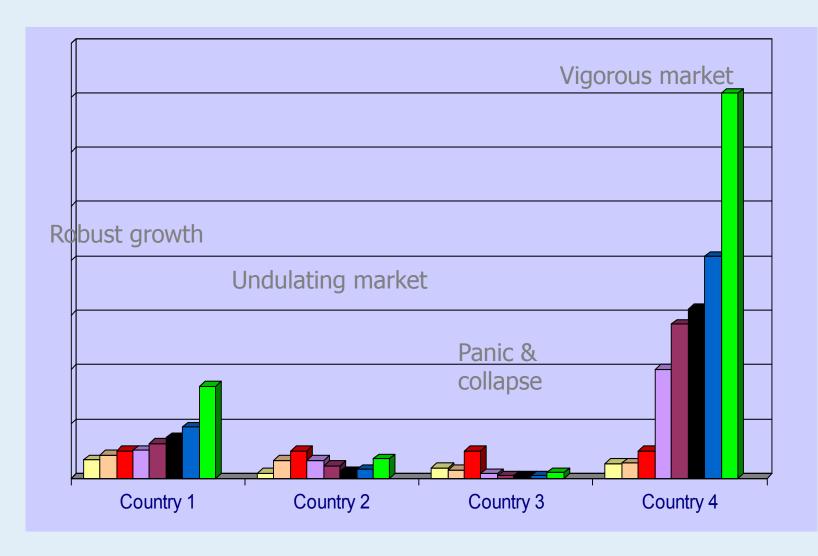
Green electricity schemes

Renewable portfolio standards (RPS)

Sustainable building Requirements



### Impact of measures on the market growth







# Efforts of municipalities: examples

- Establish the target, action plans, etc.
- Installation of PV systems in public facilities; schools, hospitals, social housings, etc.
- Include PV in community development plan
- Offer subsidy programs
- Decreasing or eliminating permitting barriers



PS PS

Setia Eco Park, Malaysia

Ota City, Japan

Heerhugowaard, Netherland

# Utility Business models: examples



Utilities own PV plant: TEPCO, Japan



Utility PPA form IPP: Tri-State G&T, US



Utilities PV system on the customers rooftop: Southern California Edison, US



Promotion of residential PV EnergieMidt, Denmark



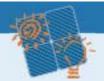


### Future activities

- New guideline of the National Survey Report
- Improvement of Information collection and publication process (earlier publication)
- Workshops
  - EUPVSEC, PVSEC, etc.



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#### 我的演讲就到此为止,谢谢大家! Thank you for your kind attention!

#### Acknowledgement:

- Task 1 OA & colleagues
- NEDO, for the support of IEA PVPS Task1



