



SEII Workshop

1st SEII Implementation Plan and discussion on the 2nd IP 2013-2015

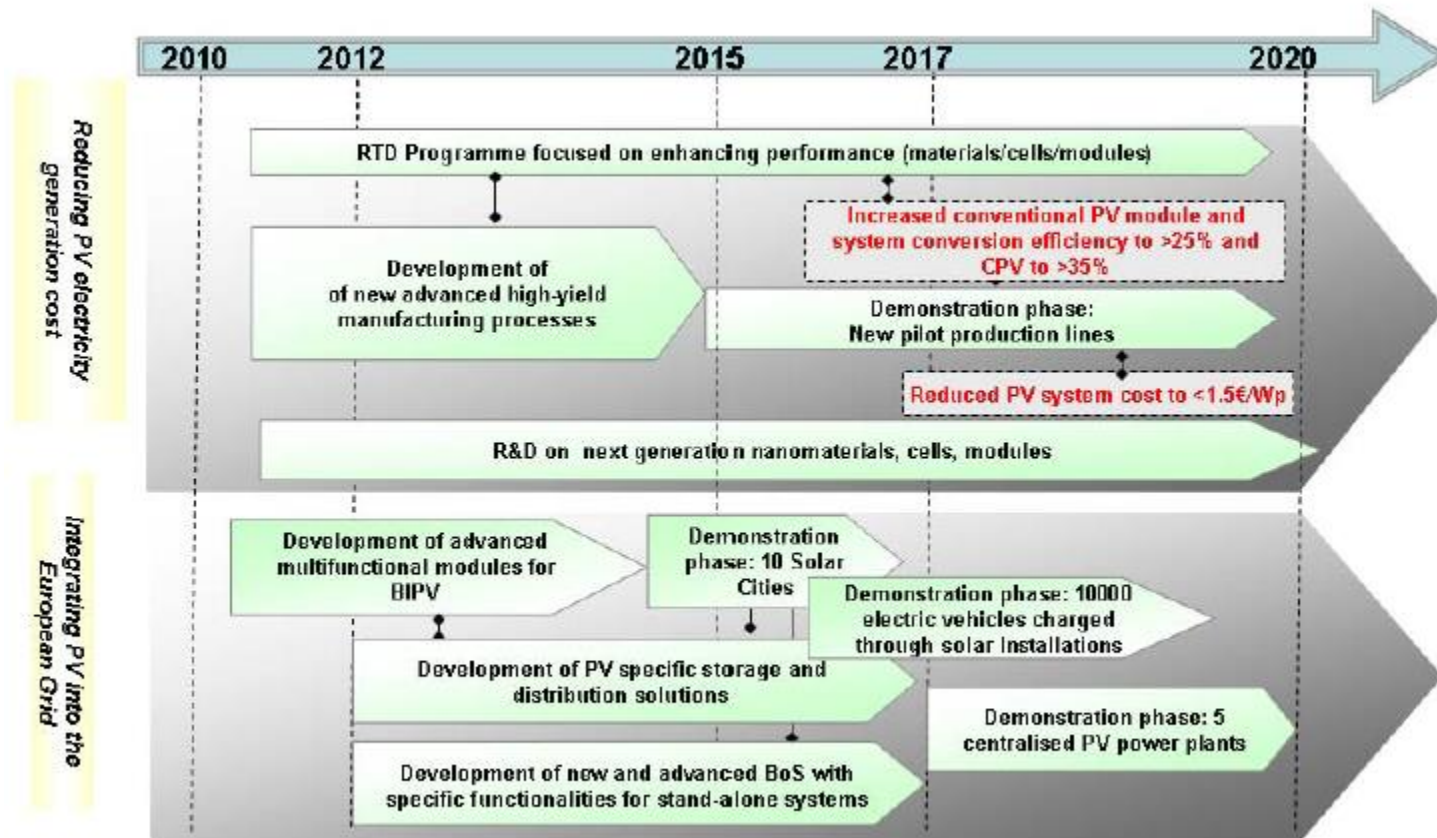
Fabio Belloni, Pietro Menna

European Commission

European Commission

Frankfurt, 27 September 2012

PV Technology Roadmap 2010 - 2020



from the EC Technology Roadmap SEC(2009) 1295, 7 October 2009



EU support to RD&D in photovoltaics

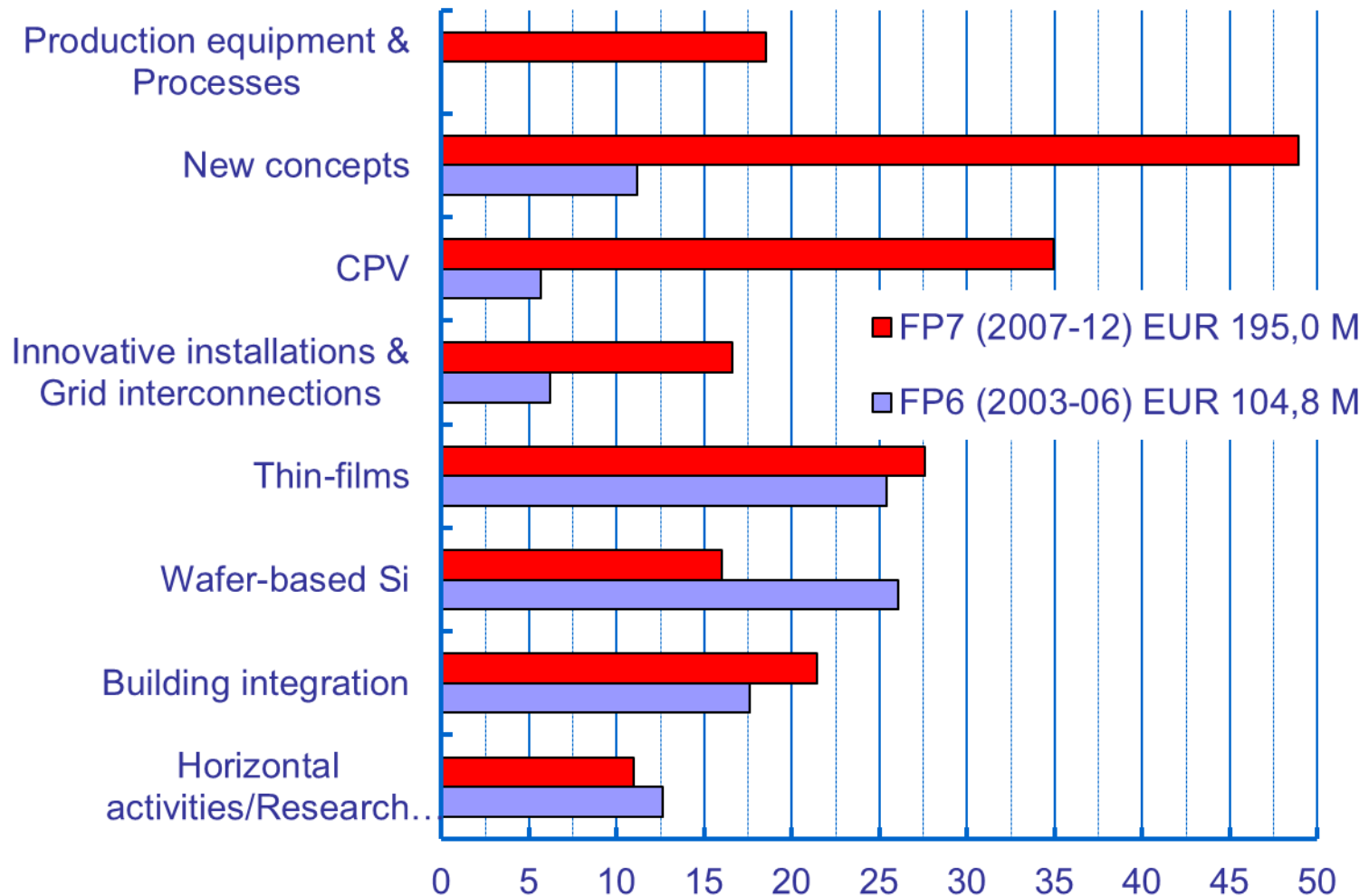
Three main support programmes

- **7th Framework Programme for Research & Technological Development of the EU (FP7), 2007-2013**
- **Intelligent Energy Europe (IEE), 2007-2013**
- **Emissions Trading Scheme – NER 300** (CO₂ emissions market)
Demonstration projects

One Industrial Initiative of the SET-Plan

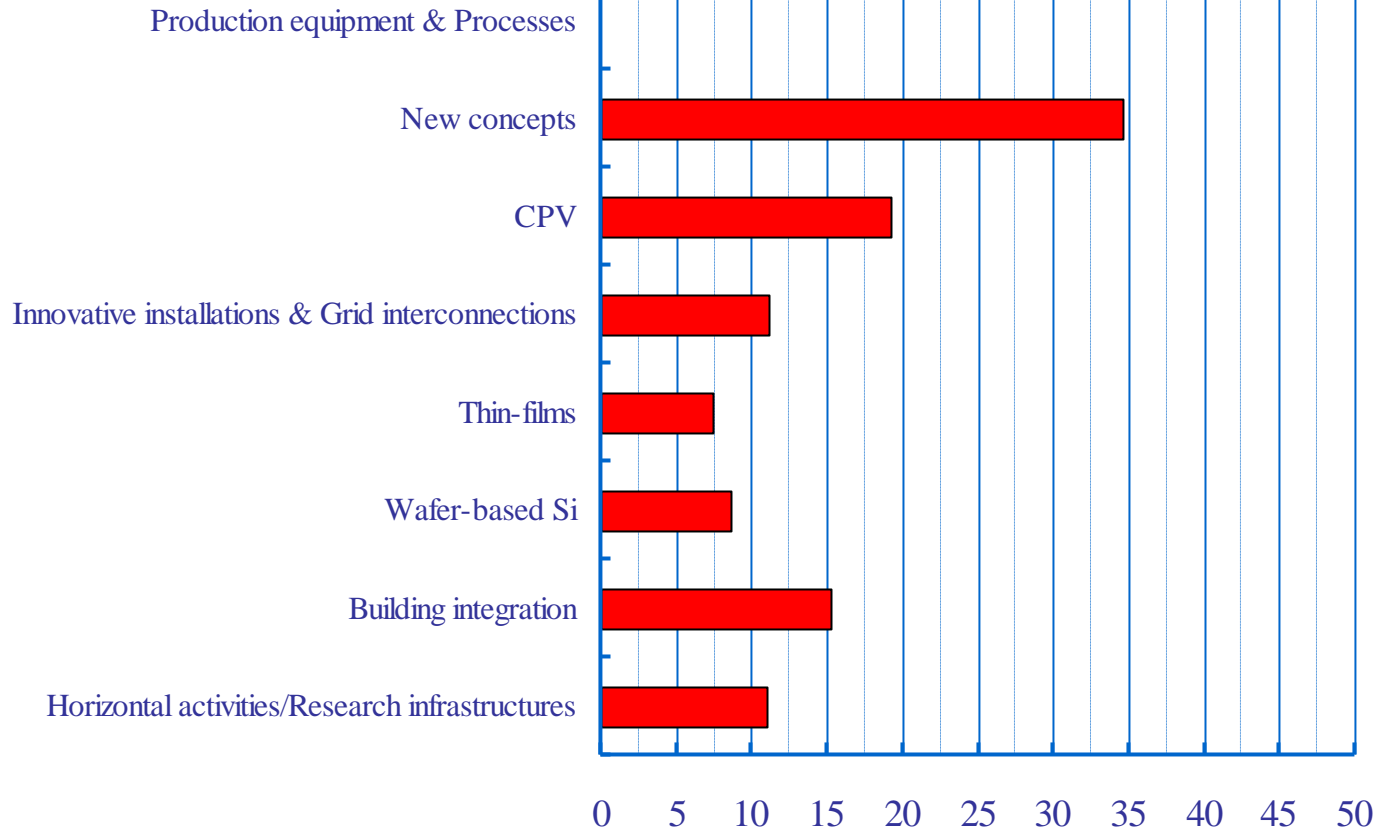
- **the Solar Europe Industry Initiative (SEII)**

FP investment in PV, 2003-2011 (M€)



FP7 investment in PV, 2010-2011

FP7 (2010-11) EUR 107,2 M



For details:

P. Menna et al.,
"European Photovoltaic
Actions and
Programmes – 2012"

-Oral presentation,
6EO.1.4, Friday 28th,
h. 08:30 – 10:00

-Proceedings
EU PVSEC 2012



Solar Europe Industry Initiative (SEII)

- The Initiative, launched in June 2010 covers both PV and CSP
- Overall target: 15% of EU elc demand by 2020 (12% PV + 3% CSP)
- “SEII-Team”: industry (EPIA, ESTELA, PV-TP), MSs, EERA, EC
- Presently, 13 MSs actively involved
- Focus: industry-oriented RD&D projects of European relevance, with a potential for large-scale exploitation
- Current priority: effective implementation of the *SOLAR ERA-NET* joint actions and further definition of possible financing instruments.
- SOLAR ERA-NET project: further pulling of resources from MSs; fostering international cooperation; 17 organisations (funding bodies and research programme managers) from 16 countries



Current RD&D priority areas for EU industry

(as identified by the SEII ad hoc working group on PV
in view of the ERA-NET joint calls)

- Solar glass and encapsulation materials
- Si feedstock, crystallization and wafering
- High efficiency PV modules based on next generation crystalline silicon solar cells
- Innovative processes for inorganic thin-film cells & modules: manufacturing demonstration
- Dedicated modules for BIPV: design and manufacturing
- Concentrator technology: development of components (cells, optics, trackers) and demonstration of systems
- Grid integration and large-scale deployment of PV: technologies and concepts for maximum value and high penetration (including smart PV modules)

Considerations for the 2nd Implementation Plan

- Shaping future support instruments would benefit from better understanding rapid reduction of PV prices, their predictability and consistency with the scale of the sector
- Has *center of gravity* of PV industry moved from RD&D to market deployment?

Some ideas for the 2nd IP

- Seek industrial commitment and leadership for the elaboration of the IP
- Comprehensiveness vs. **selectivity**
 - IP 2013-2015: why not to follow the topics' prioritization approach used for the Solar ERA-NET? For instance, focus on topics closer to the market
- Careful review of estimated budget for each topic and sub-topic



Remarks

- 1st IP 2010 – 2012 assessment
- FP7: adequate coverage of the PV sector, in terms of variety of topics and overall allocation of resources
- SEII: on track
- SOLAR ERA-NET: project negotiation successfully concluded; calls expected to be launched end 2012 / beginning 2013
- PV Technology Platform: extension of the contract funding the Secretariat (project PV TP-SEC) granted, to support the work on the IP 2013-2015
- IP 2013 – 2015: keep the current level of detail in the sub-topics, find a good selection/prioritization criterion