

TEMPLATE FOR CHARACTERISING ENERGY TECHNOLOGY ROADMAPS

REFERENCE	EU PVNET
Title:	PVNET European Roadmap for PV R&D
Date:	March 2004
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Funded by:	European Commission
Hard copy reference:	EUR 21087 EN
URL:	http://www.pv-net.net/
Date accessed:	July 2006
Web Format:	No
IEA topics covered	Photovoltaics
Geographical focus:	EU
Brief Abstract:	This roadmap was an outcome of an EU Thematic Network which was supported under FP5. Its focus is on research and research funding structure. Priorities levels for the three look ahead periods are identified for different field within PV research. The overall challenge is identified as being significant cost reduction.

OUTPUTS	
Short Report?	Y (54 pages)
Major report?	N
Visualisations?	Y
Information held on dedicated software?	N
- which package?	N/A

ARCHITECTURE	
Timescales used:	up to 2008; 2008-2015; after 2015
Trends and drivers?	Y
- list	Expected growth rates for different technologies (c-Si, thin film Si, CIS/CdTe, other) are projected.
Enablers?	Market sectors
- list	1990 Autonomous and large PV installations 2000 BIPV, dispersed, grid connected 2010 BIPV, large systems for peak shaving 2020 BIPV, peak shaving, VLSPV
Performance measures/targets?	Y
- list areas	Targets given for the market penetration of new technologies, and indicative efficiencies.
Mapping of RD&D activities?	N

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Critical assessment of capabilities?	N
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PROCESS	
Methods used:	
- Desk study?	Y
- Consultation	Y
- Interviews?	N
- Facilitated workshop(s)	Y
- Working groups/task force	Y
- Integrated Process	N
Stakeholders engaged:	
- University based researchers	Y
- Other public sector researchers	Y
- Business – technology	Y (in part)
- Business – other	N
- Government - energy	N
- Government – SET	N
- Government - other	N
- NGOs	N
No of people engaged:	21
Budget (if known):	
Commitment to re-visit?	Completed project

ACTIONS IDENTIFIED	
List of actions?	Y
Actions listed according to timescale?	Y
Actions prioritised?	Y
Sequencing/dependencies identified?	Bottle-necks identified
Responsibility for actions identified?	N
Types of actions identified:	Y
- Basic research?	Y
- list areas	Research targets provided separately for c-Si, thin films, dye cells & polymer
- Applied research?	Y
- list areas	Balance of system and building integration
- Development & demonstration	Y
- list areas?	Building integration
- Other types of action?	Y
- list other types	<ul style="list-style-type: none"> • Design and establish a long-term R&D vision similar to the Japanese “Sunshine/New Sunshine” (20 years) or US “High Performance PV” (12 years) programmes. • Funding structure should take into account that different technologies are at different development stages and need

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	<p>different support measures.</p> <ul style="list-style-type: none">• Research topics should cover everything from cells, modules, systems to BIPV and recycling - not only parts. But the different topics should have different time horizons.• There is no “winning technology”, therefore a viable variety of technology options has to be ensured. The focus on only one technology option could be a road-block in the future.
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