

TEMPLATE FOR CHARACTERISING ENERGY TECHNOLOGY ROADMAPS

REFERENCE	UK PV
Title:	PV Net – The UK Photovoltaic Network
Date:	1999
Author:	
Funded by:	EPSRC UK
Hard copy reference:	
URL:	http://www.pvnet.org.uk/
Date accessed:	July 2006
Web Format:	No
IEA topics covered	Photovoltaics
Geographical focus:	UK
Brief Abstract:	<p>PV Net is a network of UK and industrial groups that are actively working in the field of photovoltaic devices. PV Net aims to:</p> <ul style="list-style-type: none"> • Encourage greater collaboration in research and implementation of photovoltaics. • Optimise UK resources through establishing shared facilities and greater awareness of UK research activity. • Act as a voice for the UK photovoltaic materials and device community • Encourage submission of high quality research proposals • Benchmark UK research against the best in the world and implement best practice in our own research projects. • Become self-sustaining after three years.

OUTPUTS	
Short Report?	Yes (13 pages) + 5 Appendixes
Major report?	No
Visualisations?	Yes
Information held on dedicated software?	No
- which package?	N/A

ARCHITECTURE	
Timescales used:	After 2005
Trends and drivers?	Yes
- list	Environmental concerns and economic advantages to participation in a global PV

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	industry
Enablers?	Market sectors
- list	?
Performance measures/targets?	Yes
- list areas	Targets given for the market penetration of new technologies, and indicative efficiencies.
Mapping of RD&D activities?	No
Critical assessment of capabilities?	No

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

ACTIONS IDENTIFIED	
List of actions?	Yes
Actions listed according to timescale?	Yes
Actions prioritised?	Yes
Sequencing/dependencies identified?	
Responsibility for actions identified?	No
Types of actions identified:	Yes
- Basic research?	Yes
- list areas	<p>Bulk silicon</p> <ul style="list-style-type: none"> • Weak, very few academic labs involved. <p>Thin films</p> <ul style="list-style-type: none"> • CdTe – strong on account of the UK position in the infra-red industry • Chalcopyrites – some areas of excellence, but relatively few players • Thin film silicon – some excellent research but under-represented • Amorphous silicon – good research, very

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	<p>few centres.</p> <p>Future technologies</p> <ul style="list-style-type: none"> • Dye sensitised (Gratzel) cells – strong research effort • Polymeric cells – strong effort emerging from molecular electronics and display initiatives. <p>Specialised products</p> <ul style="list-style-type: none"> • Thermo-photovoltaics – activity on the wane • Concentrator cells – strong where it is represented
- Applied research?	Yes
- list areas	
- Development & demonstration	Yes
- list areas?	
- Other types of action?	Yes
- list other types	