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	Photovoltaics
covered	
Geographical	UK
focus:	
	 actively working in the field of photovoltaic devices. PV Net aims to: 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 host propinsion 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	No
capabilities?	

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	Yes
timescale?	
Actions prioritised?	Yes
Sequencing/dependencies identified?	
Responsibility for actions identified?	No
Types of actions identified:	Yes
- Basic research?	Yes
- list areas	Bulk silicon
	 Weak, very few academic labs involved.
	Thin films
	 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

	few centres.
	Future technologies
	 Dye sensitised (Gratzel) cells –
	strong research effort
	 Polymeric cells – strong effort
	emerging from molecular
	electronics and display initiatives.
	Specialised products
	 Thermo-photovoltaics – activity on
	the wane
	 Concentrator cells – strong where it
	is represented
- Applied research?	Yes
- list areas	
- Development &	Yes
demonstration	
- list areas?	
- Other types of action?	Yes
- list other types	