

TEMPLATE FOR CHARACTERISING ENERGY TECHNOLOGY ROADMAPS

REFERENCE	Japan PV
Title:	Overview of "PV Roadmap 2030 (PV2030)" - For realization of mass introduction of PV systems -
Date:	October 27, 2004
Author:	
Funded by:	New Energy and Industrial Technology Development Organization (NEDO), Japan
Hard copy reference:	
URL:	http://www.nedo.go.jp/english/archives/161027/pv2030roadmap.pdf
Date accessed:	January 2006
Web Format:	No
IEA topics covered	Photovoltaics
Geographical focus:	Japan
Brief Abstract:	"PV Roadmap 2030 (PV2030)," consists of key figures from academic, industry and governmental circles, to promote the sustainable development of Photovoltaic (PV) power generation. The committee compiled technical issues for a long-term strategy and has charted a future PV R&D direction for many applications in all fields. In June 2004, the discussion sessions were completed and summarized as "Japan's PV Roadmap 2030 (PV2030)." PV2030 formulated additional crucial steps and strategies for PV R&D in order for it to be a primary energy source.

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

ARCHITECTURE	
Timescales used:	up to 2030
Trends and drivers?	Yes
- list	<ul style="list-style-type: none"> • Equivalent to the electricity charge for residential use (approximately 23 Yen/kWh) by 2010; • Equivalent to that for business use (approximately 14 Yen/kWh) by 2020; and • Equivalent to that for industrial use (approximately 7 Yen/kWh) by 2030 • Achieving PV module cost reduction

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	through cell efficiency improvement as well as through technological innovations in the manufacturing process is crucial.
Enablers?	Market sectors
- list	Achieving PV module cost reduction through cell efficiency improvement as well as through technological innovations in the manufacturing process is crucial.
Performance measures/targets?	Yes
- list areas	Improvement of PV Module Conversion Efficiency <ul style="list-style-type: none"> • Further enlargement of PV applications for housing complexes • Manufacturing cost reduction Manufacturing Process Revolutions <ul style="list-style-type: none"> • Cost reduction for materials, production, and facilities • Productivity improvement Durability Increase <ul style="list-style-type: none"> • Long-lasting PV modules and inverters to match durability of houses • Electricity cost reduction
Mapping of RD&D activities?	No
Critical assessment of capabilities?	No

PROCESS	
Methods used:	
- Desk study?	Yes
- Consultation	Yes
- Interviews?	No
- Facilitated workshop(s)	N/A
- Working groups/task force	N/A
- 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:	N/A
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	

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identified?	
Responsibility for actions identified?	No
Types of actions identified:	N/A
- Basic research?	
- list areas	
- Applied research?	
- list areas	
- Development & demonstration	
- list areas?	
- Other types of action?	
- list other types	