

Type of project: (tick off the type)	PV	Solar Thermal	Biomass to Energy	
	x		x	
Project name:	Demonstrative Research on Combined Photovoltaic Power Generation System			
Location of the plant:	Prey Nob, Sihanouk Ville			
Year of Implementation:	2002			
Operator: (Name and address)	Technician recruited by Ministry of Industry Mine and Energy			
Planner: (Name and address)	Shikoku Research Institute Inc.			
Detailed description of the installation: (technology, function, benefit for users, etc. max 150 words)	This hybrid system consists of both photovoltaic (PV) and biogas power generation systems. The PV plant is designed to send a fixed amount of power output to a distribution network (grid). Surplus power is directed to the biogas plant where it can be used for the fermentation process. This will help to alleviate the possible effects of output fluctuations on the grid. Biogas generated in the biogas plant can also be used for power generation. Demonstrative research is under way to verify the cost effectiveness of the combined plant as a total system and to verify the system's commercial viability.			
Generated Energy service: (tick off the energy type)	electricity	Heat	Gas	Light
	X			
Power output of installation: (kWel, m ³ biogas, kW th, etc.)	50 KWp of PV combined with 2*35 KW generators using gas from the bio digester as fuel source			
Financing (tick off the financing type)	private investment	Loan	Donation	Grant
				X
Investment costs in US\$	500,000			
Maintanance costs in US\$	500 – 600 US\$ (Dialogue with MIME personnel)			
Savings:	---			
Energy sale income in US\$:	0.25 \$US/KWh			
Comments:	---			
Pictures and grafics				

