

Type of project: (tick off the type)	PV	Solar Thermal	Biomass to Energy	
	x			
Project name:	Demonstrative Research on Dispersed Photovoltaic Power Generation Systems			
Location of the plant:	Teuk Chha, Kompong Cham Province			
Year of Implementation:	2002			
Operator: (Name and address)	Community Energy Cooperative			
Planner: (Name and address)	Tokyo Electric Power Services Co., Ltd./ Toshiba Plant System & Services Corporation			
Detailed description of the installation: (technology, function, benefit for users, etc. max 150 words)	Under this project, a hybrid dispersed power generation system using photovoltaic and micro-hydro generation is linked to a small grid. By combining PV and hydropower generation systems, this demonstrative research focuses on the feasibility of improving the power generation efficiency, alleviating the possible effects of output fluctuations to the grid, maintaining the power supply during the dry season and reducing the required capacity of the storage batteries.			
Generated Energy service: (tick off the energy type)	electricity	Heat	Gas	Light
	X			
Power output of installation: (kW _{el} , m ³ biogas, kW _{th} , etc.)	87 kW _p of PV combined with 2*20 KW hydraulic turbine			
Financing (tick off the financing type)	private investment	Loan	Donation	Grant
				X
Investment costs in US\$	700,000 US\$			
Maintenance costs in US\$	Can not be estimated (Dialogue with the operator of the plant)			
Savings:	---			
Energy sale income in US\$:	0.25 \$US/KWh			
Comments:	The project has been down for two year due to the willingness to pay of the consumers. During the start of the project, the electricity costs 0.16 US\$. But this tariff can not even cover the operational and maintenance cost. To cover this, it is decided to raise the electricity from 0.16 to 0.25 US\$. Unfortunately, the consumers are not willing to pay at this price. Therefore, the plant stops their operation.			
Pictures and grafics				

