



Monitoring Solar Home Systems distribution

In order to provide energy services to remote villages, away from development areas and far from the grid, many national and international programs are now emerging providing poor households with standalone solutions such as Solar Home Systems (SHS) to overcome the lack of access to an energy service. Moreover, the private solar market is also growing steadily from local actors, particularly from private companies. The needs for managing kits distribution and customers is particularly strategic. PV Manager© was developed then to help managers supervising SHS sales and installation. The software therefore allows private or public facilities, to monitor equipment deployed but also to assess the financial performance in case of regular repayments from customers.

Through its user-friendly interface and simple, PV Manager is available to any managers without requiring special training. It allows:

- ◆ Record purchases and customer installations
- ◆ Master operational costs and income flows
- ◆ Improve service quality
- ◆ Identify default payments and debts
- ◆ Increase company profitability using an efficient management system

The tool for monitoring Solar Home Systems distribution, accounting and customer management

The screenshot displays the PV Manager software interface. The top window shows 'Province: Banteay Meanchey' and 'District: Phnum Srok'. Below this is a sidebar with menu items: 'Village and Customers management', 'Contracts and Billing total summary', 'General reports', and 'Exit Application'. The main window is titled 'Customers details' and contains fields for 'Customer Code', 'Family Name', 'First Name', 'Village', 'House #', 'Address', 'Status', 'System Size', 'Serial', and 'Installation date'. A 'Customer payments' window is overlaid, showing a table for 'Customer test name2' with columns for 'Payment Type', 'Payment date', 'Total due', and 'Total paid'. The table contains one entry: 'Monthly payment' on '11/10/2011' with a 'Total due' of '3,35' and 'Total paid' of '3'.

PV Manager© is divided into several modules:

- **Customer Management:** records information of actual customers and their equipment
- **Production Management:** records and monitors energy production, load curves, genset maintenance checking, maintenance and break down log book and fuel purchases to maximize efficiency and sustainability of the diesel generator.
- **Distribution Management:** records and monitors medium and low voltage lines, maintenance and break down log book and estimation of voltage drops on the network.
- **Accounting module:** records customer meter readings, calculates and issues monthly bills and monitors payments in order to oversee customer performance.
- **Reporting module:** Prints reports to assess the financial performance and maintenance activities carried out over a given period.

Tool already deployed in various countries:

- ◆ Cambodia, Laos...

Minimal Configuration :

- ◆ Windows XP
- ◆ MS Access 2000



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