

Case study

Hybrid Solar System

Hlegu Township, Yangon

Myanmar



The challenge

Hybrid solar solution designed for electric water heating system at Dhamma Winiya Monastery. By day-time, it will use power from solar energy whilst batteries will be charged from solar energy.



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By night-time, it will get power from batteries. If the batteries power is running low, grid power will support the load. The solar priority has been implemented and allow use all of the available renewable energy.

Why STUDER

The load is for electric water heating system which may be used day and night. There is existing grid which is not very stable and the client wants to have independent power supply for electric water system because it can be used during grid power cuts. Therefore, we make separate power line for those water heaters from main distribution and feed the hybrid solar power into it. We choose Studer solution as it can be used as hybrid solution (Solar, Battery and Grid).

System components

The system contains the following components:

- 18 x Jinko Solar 400W Solar panels
- 1 x Battery Narada 7.2 kWh Systems
- 1 x Inverter: Studer XTH 6000-48
- 2 x Charge Controller: Studer VT-65
- 1 x Remote Control: Studer RCC-01
- 1 x Studer BTS-01
- 1 x Studer Xcom-232i

The Solution

Commissioned in 2020, this hybrid system of 7.2kW supplies electric water heating system of the monastery.

Although there is the national grid, the client wants to promote renewable energy and wants to reduce the utility cost.

Project outcome

The client who makes donation of solar system to monastery is happy about the results which solar power system for stable power supply.

The Company

Planet Nine is system integrator and turnkey power service provider in Myanmar. We forecast on telecommunication power solution and hybrid solar solutions for C&I and mini grids.

Established in 1st Dec 2016, Planet Nine is a fast growing and well known system integrator company and Telecom market.

They are focusing on solar energy and system integration for various types of hybrid power solutions for Commercial and Industrial (C&I) sector. Their engineering team have concrete experience of Turnkey Energy Solutions.

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