PV Solar Installation

Pax Garment

Sunyani - Pax Garment, January 2020



Installation Description

We installed for the Pax Garmet Textile Company a 3 phrase SMA grid connected PV - System with 49.7 kWp solar power.

The biggest challenge in this system is the high power consumption of some of the equipments. The system is grid connected and when the grid is available this is not a problem. However, in situation when the grid fails the PV - system cannot power everything, especially when it is raining or in the harmattan season.

Therefore, we divided the electric connection feeding power to the appliances. The air conditioner and a few of this heavy duty machines are connected to the grid. This heavy duty machines can only run on the PV - system when there is bright sunlight. However, when the grid fails and the sun is not strong enough to power this devices or in raining and harmattan seasons, these heavy duty machines will be switched off by the consumer.

Facts

Location

Pax Garmet Textile Company in Sunyani, the capital city of Brong Ahafo Region.

Installation Date

January, 2020

End Users

Pax Garmet Textile Company and the secretary of the catholic dioces.

Technical Data

- SMA Sunny Island SIGOH, 3 pcs.
- SMA Tripower 20 kW, 1 pcs.
- SMA Tripower 12 kW, 2 pcs.
- Battery BYD Box 13.8 kWh, 2 pcs
- 184 PV Modules 270 Wp each. Total 49.7 kWp.







