

Case study

Minigrid for agriculture

Nyaung Kyo village

Myanmar



The challenge

The Nyaung Kyo village in Bago Region in Myanmar is far from the national grid, that will not be extended in the next 10 years. An off-grid solar system was the answer for powering the village's rice hullers (agricultural machines that remove the outer coat of



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the rice) as well as the irrigation pumps and the households.

Why STUDER

For this project, high quality uninterrupted power with high surge handling capacity and best efficiency was vital, both technically and commercially. In this case the XTH 8000-48 in the Xtender series meets the highest requirements especially with a surge capacity of 21kVA, three times its nominal power.

System components

The system contains the following components:

- Solar modules: Yingli Solar 59.4kW Solar Panels
- Battery: BSB OPzV ,288 kWh
- Inverters/chargers: Studer Innotec, 6 Xtender, XTH 8000-48
- Solar charge controller: Studer Innotec,12 VarioTrack VT-80
- Other: Studer Innotec, 1 remote control RCC-02, 1 BSP and 1 Xcom-GSM

The Solution

Commissioned in 2020, this off-grid system of 59.4kW supplies Nyaung Kyo village 157 HH and public facilities with 24 hr supply electricity, including the irrigation pumps and agricultural machines. Each energy unit has a fixed price and the consumers pay in advance their estimated energy consumption on a monthly basis. Other village houses may also join the local network once they pay the minimum connection fee.

Project outcome

The village enjoys access to energy through a Mini Grid system that provides them with power whenever they need it.

The smooth operating system is free from pollution and provides the village independent energy.

Significantly reduce of firewood consumption and environmental pollution

The Company

Mega Global Green Automation is involved in all assets classes that promote renewable energy generation through sustainable processes, either with existing or new green/clean technologies in MYANMAR. We aim to create a more sustainable energy environment for local communities, reduce the carbon footprint and attract investment through industry and commerce.

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