



Earth Renewable Energy Co., Ltd.

Rural Electrification Workshop Photovoltaic

Business Models and Operation & Maintenance

In Myanmar Since 2002

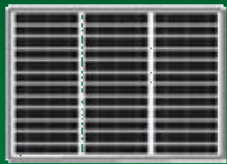
No.53/54, Pyay Road, 9 Mile, Mayangone Township, Yangon

Phone:01-661222, 652730, Fax: 01-661222

Off-Grid Solar Home System (For Small Village Households)

21Wp Solar Home System Model

DC to DC Coupling Method



Solar (21Wp)

Controller



DC LED Bulbs



Battery



Application

- Location - Bago Region
- Household - 64 Household
- System - 21 W Package
- Total Watt - 1,344 Watt



Portable Small Package

2W LED Solar Light Package



Solar Module	2W –Multi crystalline Solar Cell with adjustable angle and 3 meter cable from panel to light
Bulb	2W -Hi-Power LED bulb (Nichia Japan chip)
Battery	AA –NI-MH 1.2V/2000mAh X 3 Nos.
Accessories	Multi-mounting ways: wall mount screws: round / square pole clip
Operation Time	4 hrs on half bright
Color	White
Life Time	>5 year for solar module >40000 hrs for LED bulb >700 cycle for battery

High Efficient LED Solar Lantern



Model	- EV-H21
Lighting	- Two levels options Bright - 6 hour Brighter - 4 hour
High efficient LED	- 20lm at the bright level 30lm at the brighter level.
Battery	- 3.6V, 600mAh Ni-MH rechargeable battery

Off-Grid Solar Home System (For Small Village Houses)

40Wp Solar Home System Model

DC to AC Coupling Method



Solar (40Wp)



Controller with Inverter



Hi Power LED Bulbs(AC)



Battery

Application

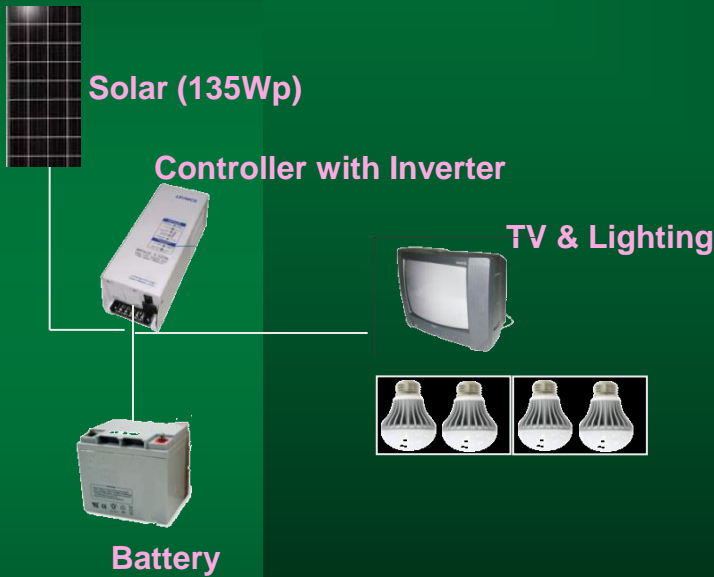
Location	-Shan State
Household	-151 Household
System	-40 W Package
Total Watt	-3,400 Watt



Off-Grid Solar Home System (For Lighting & TV)

135Wp Solar Home System Model

DC to AC Coupling Method



Application

Location -Ka Yar State
Household -10 Household
System -135 W Package
Total Watt -1,350 Watt

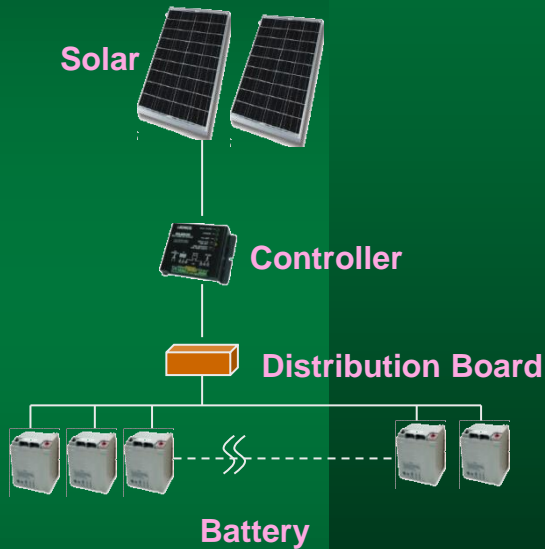


Off-Grid Solar System for Battery Charging Station

Solar Charging Station Model

Application

DC to DC Coupling Method



Location -Ayarwaddy Region
 Household -52 Household
 Total Watt -800 Watt
 Load Usage - Lighting & TV set



Location - Yangon Region
 Household - 80 households
 Total Watt - 170 Watt
 Load Usage - LED lighting (<2W)

Rual Electrification Development

- Location - Myingyan Township, Mandalay Region
- System - Stand Alone Solar Home System
- Application - Lighting (Hi Power LED Bulb) and TV
- Installed Capacity - 7,460Wp
- Installed Package-
 - 21Wp Package - 100 sets for 100 households
 - 40Wp Package - 100 sets for 100 households
 - 85Wp Package - 2 sets for monastery
 - 85Wp Package - 14 sets inside the village street



Community Center For Rural Area



510 Watt Solar Package

Location

- Sagaing Region

System

- Solar Stand-alone System
510 W per Package and
total 40 packages
(Kyocera Module)

Usage

- Lighting and TV set for
Village Community Center

Community Involvement Activities

A group of men in white shirts are seated around a table covered with a blue and yellow patterned cloth in a classroom. A chalkboard with writing is visible in the background.

Rural Electrification Development Program (Yangon Region)

A group of people are seated around a long table in a hall. A stage with a green backdrop and a banner is visible at the front of the room.

Discussion about Solar Home System for Village Electrification (Tite-Kyi Township, Yangon Region)

A large group of people are seated in a hall, facing a stage where a solar system demonstration is taking place. A banner is visible on the stage.

Solar System Demonstration (Htan-Ta-Pin Township, Yangon Region)

A green, 3D pyramid graphic with a textured surface, positioned on the left side of the slide. It has a dark green base and a lighter green top.

Key Notes

- Awareness (Quality product, Warranty, System reliability, etc)
- Initial Investment
- Financing (loan)
- Trade burden (Tax reducing)
- Subsidizing

The logo consists of a green, inverted triangle with a textured, natural-looking interior, set against a dark green background. A horizontal bar is positioned below the triangle.

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THANK YOU