

# Fact Sheet

## Rural Electrification



# Off-Grid Photovoltaic Solutions

## Potential & Possibilities

Where there is no access to the electricity grid, Phaesun stand alone solar systems are your solution for rural development applications.

Solar energy is key to cost effective Off-Grid power systems. Our solar systems are clean, silent and automatic. Once installed, they have very low operation and maintenance requirements. Unlike generators, solar systems do not require daily fuelling and maintenance or have breakable moving parts. They are silent in operation and have zero pollution.

The overall lifetime cost of solar systems are significantly lower than generators making them a reliable, responsible and sustainable solution for rural electrification. Phaesun has an in-depth understanding of these systems making us your valued partner for provision of power for rural electrification.

The areas of applications are unlimited: Lighting, mobile phone charging, refrigeration, ventilation, TV, computers, machines, etc.

## Applications

The ability to provide continuous power in any environment makes solar PV systems the ideal choice to power numerous and varied applications such as:

- PicoPV Systems**  
 Complete Kits for lighting purposes and small DC applications.
- Solar Home Systems**  
 Small individually sized systems for basic DC-loads for household power supply.
- Solar Residential Systems**  
 Larger stand-alone PV systems for DC and AC loads in schools, hotels, health posts etc.
- DC/AC Hybrid Systems**  
 Larger systems with more than one power source, e.g. PV, wind, diesel.
- Street and Area Illumination**  
 Area illumination for paths, streets and public places.
- BOSS (Business Opportunities with Solar Systems)**  
 Solar Systems for the use of commercial applications e.g. grain mills, haircutter etc.

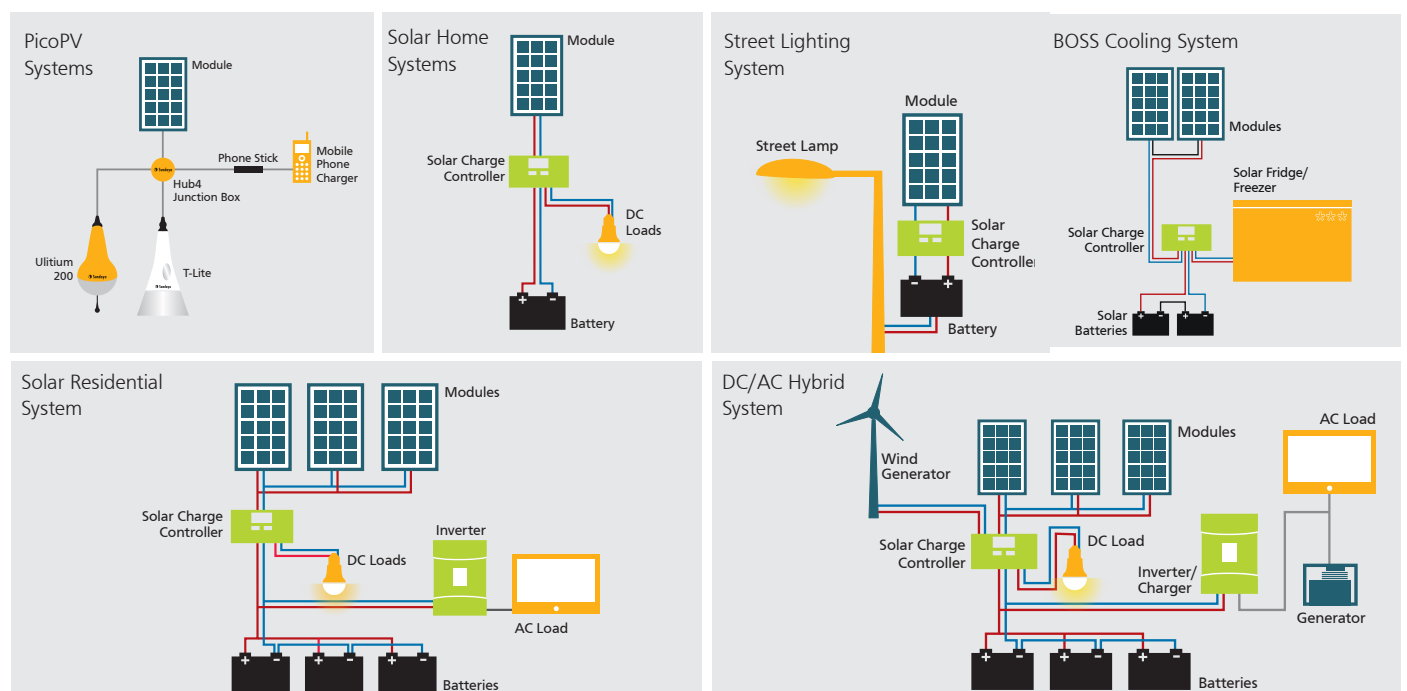
## Other Off-Grid Areas

Beside applications for rural electrification PV Off-Grid systems can be used in many other areas where power is needed far from the grid.

Phaesun the Off-Grid Experts cover the following areas:

- Water systems**  
 Solar systems for water pumping, water purification and desalination
- Industrial applications**  
 PV power supply for telecom stations or applications for the oil and gas industry.
- Leisure market**  
 PV Off-Grid applications for caravan, camping and marine.

## System Overviews – Rural Electrification



# Why Phaesun?

## Phaesun Strategy

Phaesun have been specialising in the sales, service and installation of Off-Grid PV and wind energy systems since they were founded in 2001.

We view Off-Grid PV as one of the keys to economic, ecological and social development in many countries of this world. We believe that Off-Grid PV is the most economical and ecological alternative for bringing not only electricity but also independence to remote regions.

We offer a sophisticated product and service portfolio for Off-Grid power supply building on two pillars:

- Wholesaling of single components for Off-Grid systems.
- System integration to highest performance.

With our Phaesun representations in Europe, Africa and Latin America and key customers all over the world, we will keep on developing together the Phaesun concepts for independent power supply.

## The Off-Grid Experts

Phaesun are the Off-Grid Experts in the photovoltaic sector.

Because of the expertise and experience of our team, we can support you from project planning to system design and implementation in all technical and project management levels.

## Quality

Due to our high-quality manufacturers of solar modules, electronics, batteries, pumps and installation material, we can offer you a solar power system that meets the highest quality requirements. This guarantees the highest reliability of the system and the satisfaction of the user.

## Cooperation & support

Phaesun are working on their own concepts for developing and assisting projects to accelerate the provision of electricity to remote areas. We always maintain our close cooperation with many GOs and NGOs to jointly realise development projects in remote regions. In return, we give advice for the technical realisation of the projects and deliver the Off-Grid systems just in time to the project locations.

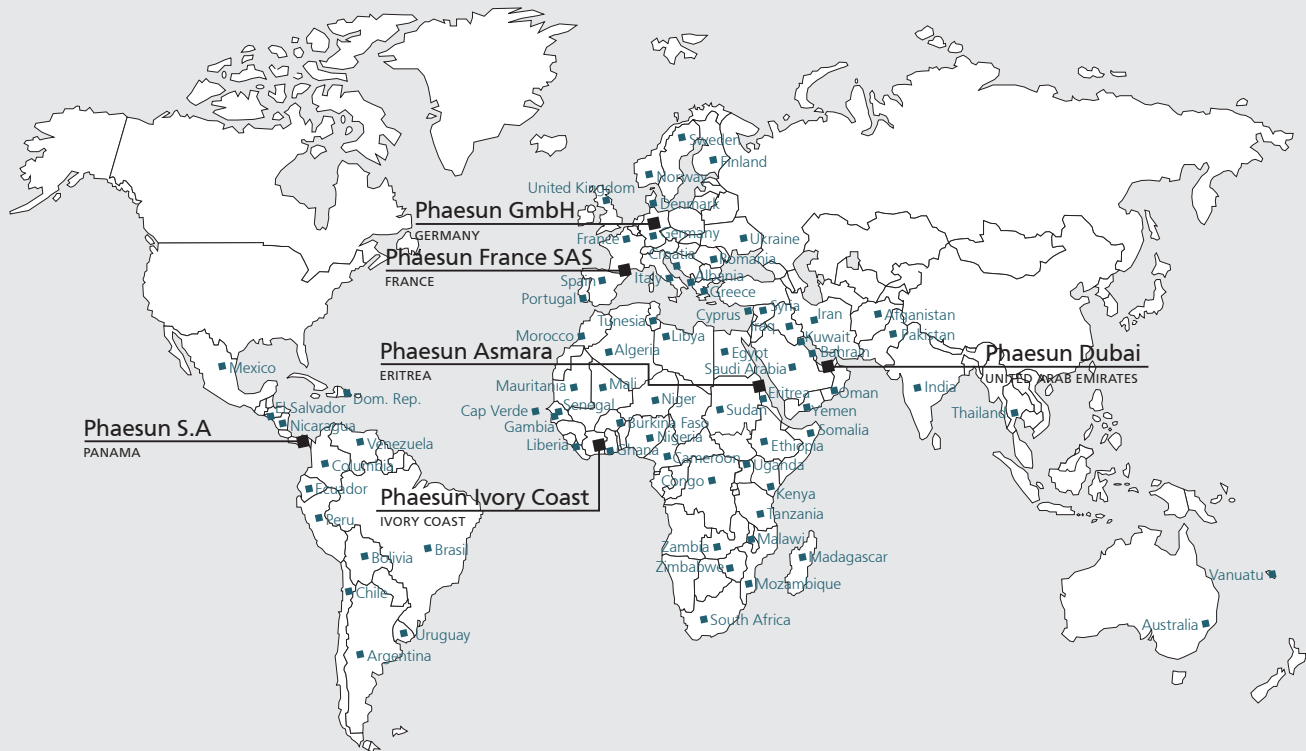
Furthermore we aim to establish partnerships with suitable local companies to represent us in their localities thereby extending our services at the local level.

Phaesun is also an active member in associations and organizations promoting rural electrification such as ARE (Alliance for Rural Electrification), BSW (Bundesverband Solarwirtschaft) and Afrikaverain.



## Around the world:

Through Phaesun Asmara, Phaesun S.A., Phaesun France SAS, Phaesun GmbH and our network of associated companies we have successfully developed hundreds of sustainable energy projects in more than 60 countries worldwide.



Phaesun's integrated service covers customised packaged systems in the area of rural electrification, health care, telecommunications, education and water supply.

In designing any solar system, we always emphasise the ease of installation, minimal maintenance and long operating life. Systems are based on the use of readily available components and energy-efficient lights, appliances and equipment. Local sourcing is done whenever possible.

- Countries in which Phaesun has already realised projects
- Phaesun and associated companies

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As a committed member, Phaesun is involved in all activities of the following organisations:

