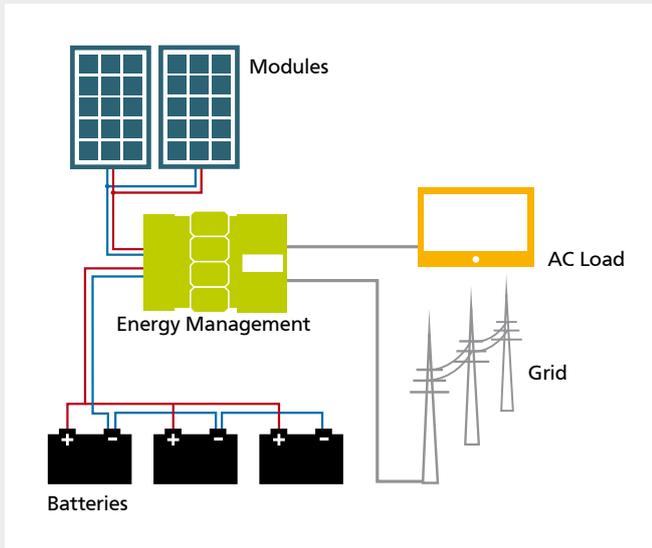


# Fact Sheet **Off-Grid Connect**



# Off-Grid Connect Concept



## Definition :

The Off-Grid Connect (OGC) power systems are designed to be installed in homes or buildings connected to an unreliable grid. OGC systems provide safe and reliable energy. These systems are composed of batteries and smart electronics and can easily integrate solar panels to reduce grid consumption. With OGC systems, you provide safe energy even when the grid is off.

## Where ?

- AC loads (single or 3-phase)
- Available other power sources (grid or else)
- Non reliable existing grid
- Grid injection is not allowed

## Why ?

- Provide safe energy in unreliable grid location and therefore enhance service continuity (backup system)
- Mitigate energy costs (diesel)
- Move towards energy independence with solar energy integration



# Off-Grid Connect

## Best energy balance

### Potential and Possibilities

OGC is a system designed to make users step-by-step independent from the grid/diesel generator. In case of power failures, or to avoid too high diesel generator operation, the Off-Grid Connect (OGC) system powers up, ensuring that important electrical loads are operated without interruption.

The need for grid power is reduced to a minimum. You are then less and less dependent on unreliable grid by creating your own energy source.

Note: System design is a key stage for an optimized solution.

### Questions to be answered

What are the rules (legal environment) ?

- Reinjection possible or not ?

Which goals do you want to achieve:

- Get safe energy
- Improve service continuity

Design questions :

- Consumption profile ?
- Max power needed ?
- Autonomy requested ?
- Available PV installation surface (rooftop, ground...)?
- Does the system need to be scalable ?

### Phaesun Strategy

Phaesun has been specialising in the sales, service and installation of Off-Grid PV and wind energy systems since the foundation 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.

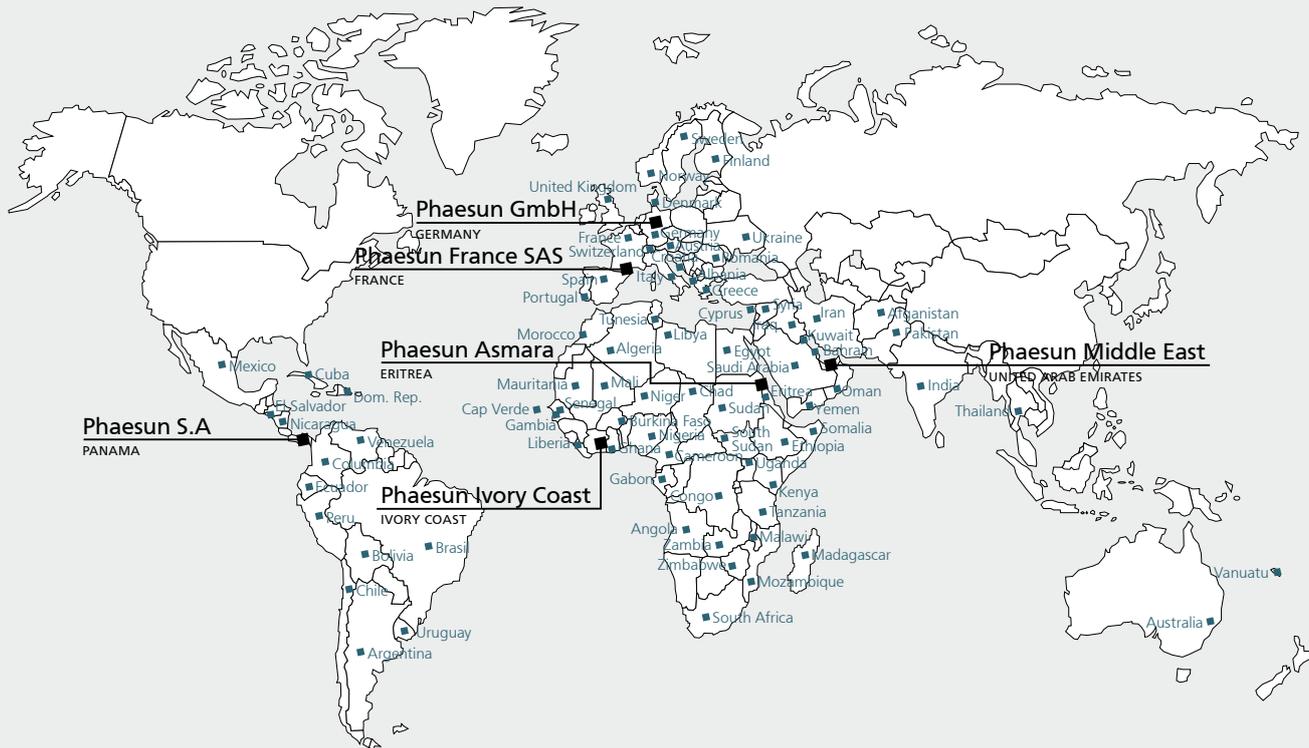
Because of the expertise and experience of our team, we can support you from project planning to system design and implementation in all technical and project management levels.

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



## Around the world:

Through the members of the Phaesun Group and our network of associated companies we have successfully supplied and managed hundreds of sustainable energy projects in more than 60 countries worldwide.



Phaesun's range of integrated services includes complete customized Off-Grid systems in the field of rural electrification, health care, telecommunications, education and water supply. We also have an extensive range of pre-configured kits. When designing our solar systems we always focus on ease of installation, minimal maintenance and long operating life. Systems are designed around readily available components, energy efficient loads, appliances and equipment. Local sourcing is our priority whenever it is possible.

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

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