

Off-grid solar asmara

The power supply in Eritrea even in the capital Asmara is not reliable. Power cuts of some minutes up to several hours are common. A battery back-up system is a suitable solution to supply reliable power to essential loads. Irradiation in Asmara is good and therefore PV is one of the most reliable electricity sources. The PV generator supplies essential loads and supports the battery backup system in case of longer power cuts.

The loads that are served by the OGC-system can run independently from other loads. When power from the grid is available they are served by the grid. When the power turns off, the loads are served without interruption by the battery power.

The Phaesun Asmara team has successfully completed the installation of an Off-Grid Connect System in the Orotta hospital in Asmara/Eritrea. The new Off-Grid Connect System bridges power blackouts with a battery bank, which is additionally solar fed with a PV-generator supplying the most important consumers in the operating theatre and the maternity room without interruption. The system has been financed by the non-profit organisation Archemed which supports the public hospital.

Before, the hospital often struggled with power blackouts leading to sometimes life-threatening problems particularly in the operating theatre and the maternity room. Solar resources in Eritrea are extremely favourable for the use of PV. Therefore the PV system helps to guarantee reliable power supply for the clinique.

The Orotta hospital houses the largest delivery suite of Eritrea. With its activities in the medical sector, Archemed contributes to a decrease of the infant mortality rate which is also a contribution to achieve the Millennium Development Goals of the United Nations. Reliable power supply is extremely important to keep all activities of the hospital running at day and night time!

In many countries the underdeveloped electricity grid does not only affect the people that are not connected to the grid. Also those that are connected often suffer due to power cuts that can last from some seconds to several days. For those who need a reliable power supply, off-grid connect power systems can be individually designed. The off-grid connect power system contains batteries and smart electronics can easily integrate solar panels to reduce grid consumption.



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