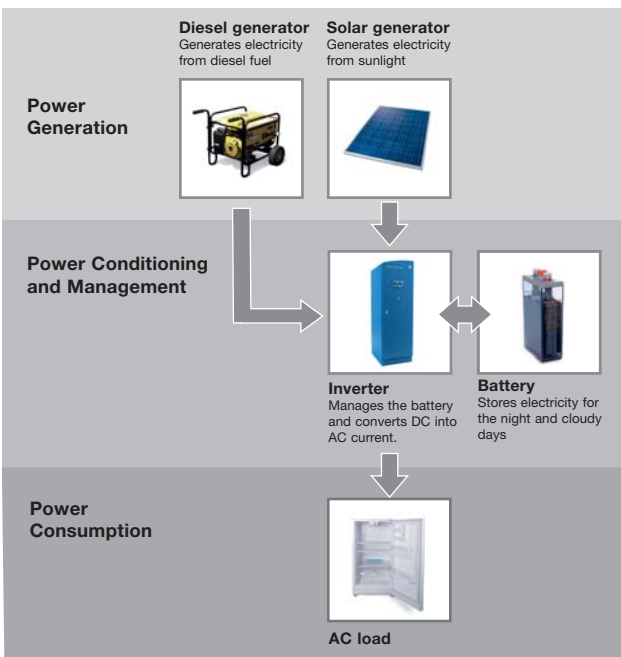


Hybrid Off-grid system powers village in Tanzania



Photo taken by project-partner Schott Solar GmbH



Off-grid systems are a reliable, economical and stable solution for power supply in areas that can not be served by a central public power grid. The power needs of a small village in Tanzania are covered by a hybrid Off-grid system: A 30 kWp solar and a 25 kW diesel generator supply electricity that is optimised and managed by a Conergy ISA 30K hybrid inverter. The old diesel generator was replaced by this modern Off-grid system eliminating the monthly need to raise EUR 2000 for diesel fuel by the local authorities. Now the system runs with minimal diesel fuel input because the generator is brought on line only to assist in periods of high loads or low renewable power availability. The solar power, the battery storage and the intelligent Conergy ISA inverter system supply the site loads during normal operation, thereby providing economic and social advantages to the community. The system also benefits the environment, reduces noise and air pollution and creates independence from rising fuel costs. This example shows how a Conergy Off-grid Power Solution can avail a community and the environment.

Data

Construction date	2006
Location	Tanzania
Application	Village power supply in Tanzania
Energy management	Conergy ISA 30K hybrid inverter
Energy sources	30 kWp solar generator 25 kW diesel generator 240 V/990 Ah battery