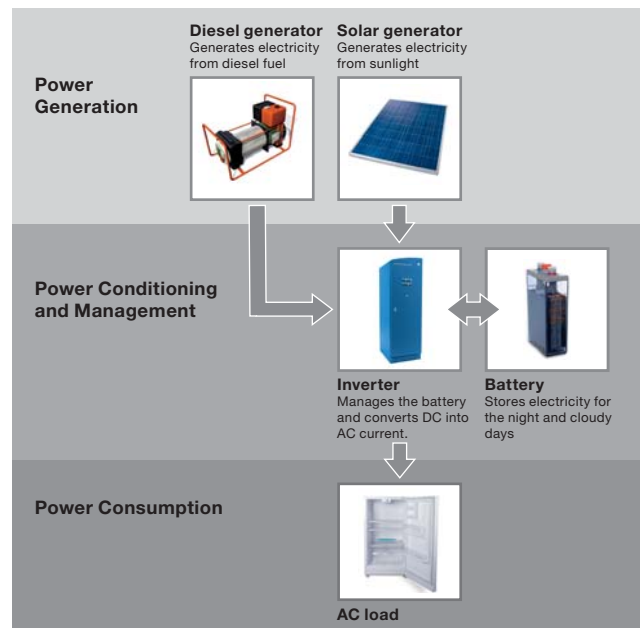


Hybrid Off-grid power supply for an Australian farm



This farmer in Queensland/Australia decided to replace his diesel generator by a hybrid Off-grid system. Displacing fossil fuels with solar energy benefits the environment, reduces noise and air pollution and creates independence from rising fuel costs. The Australian Government supported the project in the course of the Renewable Remote Power Generation Programme which aims to increase the use of renewable generation in remote parts of Australia that so far relied on fossil fuel for electricity supply. Conergy provided a standard solution for a 2,700Wp system, including a 5kVA Off-grid inverter, a 1,200V/700Ah battery bank as well as a 5kVA diesel generator. The diesel generator is brought on line automatically to assist in periods of high loads or low renewable power availability whereas the solar power supplies the site loads during normal operation.



Data

Construction date	2002/2003
Location	Queensland/Australia
Client	Private, financial support by Australian Government's Renewable Remote Power Generation Programme
Application	Hybrid power supply for a farm
Energy management	5 kVA inverter
Energy sources	2,700 Wp solar generator 5 kVA diesel generator 1,200 V / 700 Ah battery bank