



## On-Grid PV System

In some places where the public grid is unstable or expensive, we recommend to apply a hybrid or PV system with grid as backup. Solar and wind energy support the load in the most of time while grid supplies the power when there is a lack of sunshine and wind.

Application: **a house in Australia**

Load: **30kWh per day**

PV nominal power: **8.1kW**

Battery storage: **60kWh**

The amount of autonomous day: **2**

Annual produced energy: **10000kWh**

The electrical consumption of the house in Australia is 30kWh per day. In this case, solar energy is the main source of the system and grid is a backup. Bi-directional inverter is applied which can manage the electrical flow according to the condition of load, grid and battery. This system produced 10000 kWh annually and backup battery can support the household 2 days without solar energy and grid.

