



**OFF-GRID POWER SUPPLY**



## The island manager **SUNNY ISLAND 5048**

Good conditions for photovoltaics: with a solar irradiation of 1,520 kWh/kWp, a solar power supply in York is especially suitable. In the village near the Western Australian capital Perth some houses are still without electricity. The best solution: the Sunny Island system from SMA.

In order to ensure highest yields at any time of the day, the operator in York connected the PV modules to a tracking system. The produced solar power is used to supply a residential building, a water pump with water tower as well as a swimming pool with energy.

Sunny Island systems are perfectly suitable: with their excellent quality they provide a stable energy supply in off-grid regions with demanding climatic requirements such as high temperature and air humidity.

### Plant size

- 5 kW nominal power stand-alone inverter
- 4 kWp installed PV power
- 800 Ah/48 V (C10) battery
- 3 kW diesel generator

### Location

- York (Perth), Western Australia
- Operator: private
- Planning and realization: Solar Sales, Perth
- Commissioning: 2007

### Annual yield

- approx. 9200 kWh (1,520 kWh/kWp)
- approx. 13 tons reduction in CO<sub>2</sub>

### Inverter

- Sunny Island 5048
- Sunny Boy 3800

**Stand-alone grids simpler than ever**