Renewable Energy and Environmentally Sustainable Design

Case Studies

Flinders Island - RAPS

Site: Trouser Point, Flinders Island

Dates:
- Design Phase Commencement: December 2004
- Main Installation: November 2005
- Full System Commissioning Due: July 2006

Client:
Private Client

Project Goals:
Design, supply and install a stand alone power system to suit load requirements of 9.8 kW hours per day.

Project Features:
- Ground-mounted photovoltaic array (to avoid local high wind-loading) consisting of 16 x 160W Schott Solar PV panels.
- 24 x 1750Ah Battery Energy Sun-Gel batteries.
- Selectronic PS1 6/48 Inverter/Charger.
- Auto-start ACP-100 Powerguard fitted to Quietline generator.
- Complete system documentation including maintenance schedule and log sheets.

Expected renewable energy supply:
- 3.035 Mega Watt hours per annum

Expected diesel energy required:
- 764.5 kW hours per annum

Project Team:
- Jarrod Tewierik, Project Manager, Going Solar
- Duncan McGregor, Installer, Going Solar
- Jo Bradley, Administration Manager, Going Solar
- Glenn Robertson, Electrical Contractor

Further Information:
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RAPS = Remote Area Power System

Access to site

PV Array

Gel Battery Bank

Controls and Inverter/Charger