Renewable Energy and Environmentally Sustainable Design

Case Studies

Gowanbrae Community Centre - GIPV

Site:
Gowanbrae, Northern Melbourne, Victoria

Dates:
- System Design: September 2009
- System Installation: July 2011
- System Commissioned: October 2011

Client:
City of Moreland

Project Goals:
Design, supply and install a grid-connected power system for community centre.
[GIPV = Grid Interactive Photovoltaics]

Project Features:
- Roof-mounted photovoltaic array consisting of 40 x 97W Schott Solar thin film panels; and 26 x 100W Schott Solar thin film panels.
- SMC 6000 Sunny Mini Central Inverter.
- SMA Sensor Box to monitor solar radiation, wind speed and ambient air temperature.
- Full display system via computer with a wall mounted LCD monitor in the reception area. This display has a slideshow of the SMA flashview output.
- Complete system documentation including maintenance schedule and log sheets.
- System Size: 6270 W
- Expected Average Output: 25kWh/day

Project Team:
- Warwick Tullio, System Designer, Going Solar
- Duncan McGregor, Lead Installer, Going Solar
- Andy Savage, Installer, Going Solar
- Glenn Robertson & Wes Shields, Electricians

Further Information:
- steve@goingsolar.com.au
- www.goingsolar.com.au
- (03) 9348 1000

PV Panels on Roof

PV Panels on Roof

Framing Support Rails

Inverter and Isolation Switches