Renewable Energy and Environmentally Sustainable Design

Case Studies

Altona Library - PV

Site:
Altona Library, Queen Street, Altona

Dates:
- Design Phase Commencement: March 2006
- Installation Commissioning: July 2006

Client:
Hobsons Bay City Council

Project Goals:
- Generate electricity from renewable energy.
- Reduce Council's greenhouse gas emissions.
- Provide leadership by demonstrating good practice in retrofitting solar panels onto an existing building.

Project Features:
Following recommendations from the Going Solar Projects team, Hobsons Bay City Council have invested in an eye-catching PV system on the roof of the library building in Queen Street, Altona.

The system consists of fifteen photovoltaic panels located on the library roof facing due north. These generate electricity which is fed into the grid via the inverter located inside the building

The solar system will produce approximately 10kWh of electricity per day, enough energy to supply an average Victorian household and more importantly, the system will prevent ½ tonne of greenhouse gases from being emitted into the atmosphere.

Project Team:
- Haydn Fletcher, Project Manager, Going Solar
- Warwick Johnston, Project Engineer, Going Solar
- Stephen Ingrouille, Principal, Going Solar
- Glenn Robertson, Accredited Solar Installer

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Altona Library

Photovoltaic panels on the roof

PV Panels on the roof

Inverter
(located inside the building)