



COMMERCIAL SOLAR & WARM WATER

ST. MARY'S VILLA — CONCORD



The new St Mary's Villa opened in July 2010 and replaces the original building at Concord which was opened in 1985 and enjoyed an excellent reputation within the local community and health care networks. St. Mary's Villa is a two level purpose built Aged Care Facility that offers 99 single room accommodation with en-suite.

St Mary's Villa is a fully certified and accredited aged care facility.

Hot Water Requirements

99 single room accommodation with an estimated hot water load of 6,800L over a 2 hour peak demand period including meeting the hot water demands of the kitchen, laundry, hairdressing, cafe and exercise room facilities.

Solution

- 48 x Rheem Commercial Solar NPT200 collectors
- 12 x Rheem 610430 410L Storage Tanks
- 1 x Rheem 940240 Guardian Warm Water System
- 4 x Rheem 621275 Heavy Duty Gas Water Heaters



FACTS & FIGURES

Estimated Annual Hot Water Consumption

5.4 million litres based on 100% occupancy
3900 MJ/day

Estimated Solar Contribution

Average Annual Solar contribution: 26%

Estimated Annual Running Cost*

Gas Only: \$25,600 p.a.
Gas and Solar: \$19,000 p.a.
Estimated Savings: \$6,400 p.a.

Owner: St Mary's Catholic Parish Concord
Engineering Consultant: Meinhardt Pty Ltd
Installed by: Commodore Plumbing

* Data correct as at June 2011. Natural Gas estimated at 1.8 cents/MJ

