

Case Study - Glengarry Medical Group - 12kW



Glengarry Medical Group decided to pursue their interest in commercial solar PV at the same time as the Glengarry Pharmacy next door. The owners of both the medical centre and pharmacy decided to team together to make the process of getting proposals and the installation as efficient as possible. The joint investigation allowed for sharing of ideas and information, which resulted in the Medical Group making a fully informed decision on the system they required, and their preferred solar PV installation company.

Designing the system required making use of the various roof orientations available while ensuring the system production was as constant as possible throughout the day. The final design included splitting the system across the North, East, and West orientated roof.

To maximise their energy efficiency, Solargain provided a fully comprehensive solution, which included replacing their existing fluorescent tube lighting with LED lighting. The combined solar PV and LED lighting solution has allowed the centre to make the greatest possible impact on reducing their electricity costs and playing their role in reducing CO₂ emissions.

Dr. Hellmuth, the owner of the Group, obtained three quotes from different solar companies and selected Solargain based primarily on the professionalism of the company.

The solar PV system includes 48 x 250W ReneSola panels, 1 x SMA 10000TL Sunny Tri Power inverter and 1 x SMA 2500HF inverter. It is split across and flush mounted to the various roof sections comprising 3kW on the North, 5.5kW on the West roof and 3.5kW on the East roof.

Project Overview

Location: Duncraig, WA

Completed: November, 2013

System size: 12kW

Roof Fixing Method: Flush Mounted 15 degree pitch

Products:

- 48 x 250W ReneSola 250W panels
- 1 x 10kW SMA Sunny Tri Power 10000TL
- 1 x 2.5kW SMA 2500HF inverter

Annual Energy Production: 18.4 MWh approximately

Annual Greenhouse Gas Emission Reduction:
15.46 Tonnes CO₂ e (CO₂ equivalent)

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"We are very happy with the results of installing solar panels. Our April electricity account was \$1000 cheaper than the same time in 2013. The installation process by Solargain was very smooth and we found the workmanship and follow-up very professional. We did not experience any disruption to our business. We also had all our lights converted to LED and are very happy with the quality of these. Overall, we are happy to recommend Solargain."

Dr. Hellmuth
Glengarry Medical Group

