

Case Study - City of Kalgoorlie-Boulder Goldfields Oasis Leisure Centre - 137.5kW



The City of Kalgoorlie-Boulder went to tender for the installation of a solar PV system for their REC Centre building. Solargain were chosen out of approximately fifteen respondents. The main reasons Solargain were chosen were due to the company's localised support, proven experience and full service delivery.

The 137.5kW system comprises 550 x Suntech 250W panels and 9 x SMA 15kW inverters.

The system was installed on time and on budget. As a result of the success of Solargain's dealings with the City they have now also commissioned Solargain to assist with further projects.

A key requirement of the job was to deliver the project safely and to industry standards, while allowing the facility to remain open. The public facility has a curved roof and it was imperative that maintenance of safety for the installation staff and also patrons using the facility was in place while installation was underway.

Solargain's safety procedures include carrying out JSA's for each part of the installation process. The installation team was harnessed and all standards were adhered to enabling Solargain to satisfy their requirements as an ISO 9001 certified company.

Solargain's adherence to safety and standards was particularly noted by the City who gave glowing reviews of the manner in which the company conducted itself on site.

At the time of installation the 137.5kW system was the largest solar PV system deployed by any regional Shire council.

The system includes a data monitoring display screen installed in the main foyer showing electrical output and carbon abatement as well as a diagnostic tool for the council on the systems performance.

Project Overview

Location: Kalgoorlie, WA

System size: 137.5kW

Roof Fixing Method: Flush mounted to the curve lined roof

Products: - 550 x 250W Suntech mono-crystalline panels
- 9 x 15kW SMA Sunny Tri Power 15000TL inverters

Annual Energy Production: 210MWh

Annual Greenhouse Gas Emission Reduction:
193.2 tonnes CO₂e (CO₂ equivalent)

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"Solargain PV Pty Ltd, under its Commercial Projects Manager, Craig Savill, recently completed the installation of a 130kw solar PV system on the roof of the Goldfields Oasis Leisure Centre, in Kalgoorlie-Boulder.

The works were carried out expeditiously and with minimal issues. Craig and his team worked very cooperatively with our staff on site and our consultant to ensure minimal disruption to operations at the centre. Furthermore, Craig was very helpful in assisting us with our requested variation to reposition and redesign the solar PV layout so that we could optimize the simultaneous installation of a roof mounted solar thermal hot water system.

The early results of the solar PV installation are indicating a successful project. One minor teething issue experienced during commissioning was resolved in a timely and professional manner with assistance from Craig and his team as required.

I would not hesitate to recommend Craig and the Solargain team for future such projects."

Yours sincerely

A.D. Chisholm
Director Community and Development Services
27 August 2013

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