

Seeing the Light and the Power



Project Overview

Location: Calamvale, Queensland

Building details: Single story

System size: 10.8 kW

Inverter: 11 kW, 3-phase CMS inverter

PV modules: 60 x 180 W CEEG panels

Benefits

- System generate excess 16,000 kWh of green electricity per annum
- Reduce carbon footprint by approximately 16 metric tons of CO₂
- Saves no less than 50% on church electricity bill

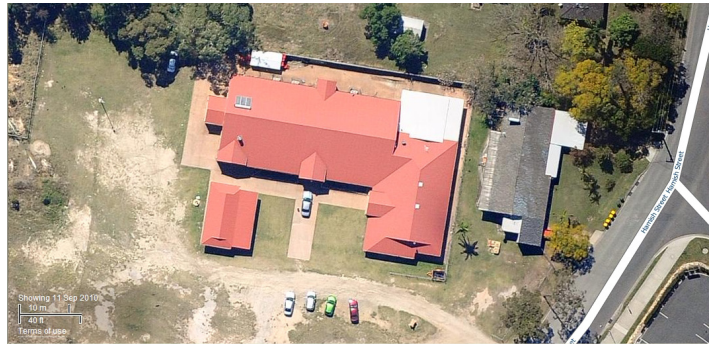


11 kW, 3-phase CMS inverter



Solar Photovoltaic Power Project Saint Mary Coptic Church

The community at Saint Mary Coptic Church in Calamvale, Brisbane, decided to reduce the carbon footprint associated with its energy consumption. They sought the advice of Dr. Kame Khouzam, Regen Power Chief Technical Advisor (formerly with Queensland University of Technology), who recommended the installation of a photovoltaic system to generate electricity to offset the cost of its electricity usage (appr. \$10,000 per year) and to export excess energy to the grid.

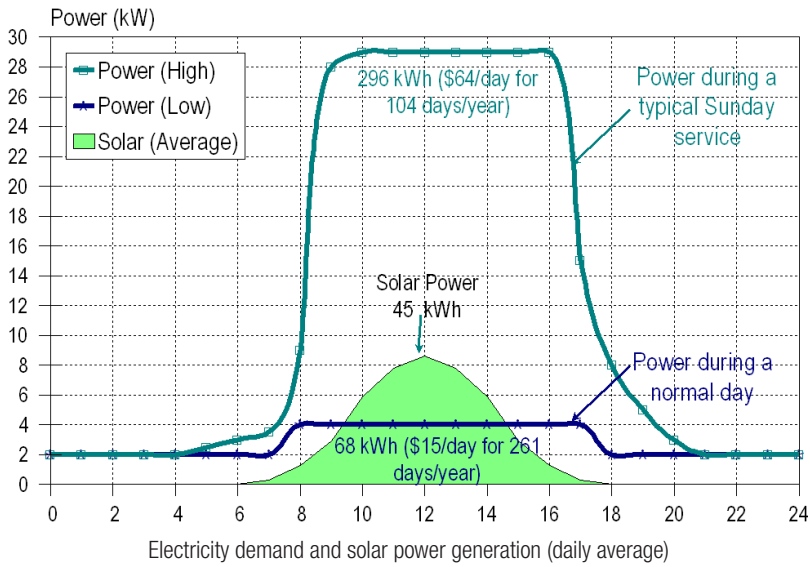


Satellite view of Saint Mary Coptic Church roof before installation

A photovoltaic (PV) solar electric system was designed and installed on the roof of the Church in September 2010. The system comprised 60 PV modules, 180 W each and a 3-phase inverter rated 11 kW. The system installation was carried out by Regen's installation partner, Acsel Pty Ltd, in 3 days. The PV system was commissioned and tested on 23 September. The system is expected to generate in excess of 16,000 kWh of 'green' electricity per annum, reducing the carbon footprint by approximately 16 metric tons of CO₂ and other gaseous emissions and saves the Church no less than 50% on its electricity bill. The system was featured on Channel 10 News on Wed 20th October 2010 (Mark Suleau; Solar Boom).

Day Cumulative Energy kWh

Thu 23 Sept	20
Sat 26 Sept	92
Sun 3 Oct	345
Wed 6 Oct	488



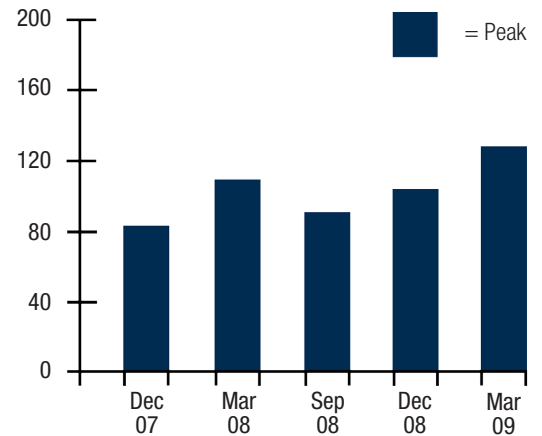
The system is ideally suited to any complex requiring at least 10 kW power such as schools, community halls, shopping centres, large residential, etc. Federal and State policies support the installations of PV systems. It is up to all of us to take advantage of these incentives, reduce our carbon emissions and feel good about what we are doing.



System installation by Acsel



Completed system



This account	128.1 kWh
Same time last year	83.2 kWh
Average cost per day (incl GST)	\$ 21.66

Church electricity bill before installation of system



Regen Power staff with Fr. James (left) and Fr. David (right)

The expertise of Regen Power and their professional work are available to you wherever there is sun. For a free quote or more details please contact us.

“ We did not inherit the earth from our ancestors but we borrow it from our descendants. ”

~Indian saying

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