

CITY OF HOLDFAST BAY

SOLAR, BRIGHTON CIVIC CENTRE



Sustainable Focus has been working with the City of Holdfast Bay since 2009 to assist them achieve their energy efficiency targets. Sustainable Focus designed and project managed the recent installation of a 46kW photovoltaic solar system on the Brighton Civic Centre. The solar system will significantly reduce the site's consumption.

OUR PEOPLE

Rob Smith,
Technical Director & Project
Manager

Rob has extensive experience in the Heating, Ventilation and Air Conditioning (HVAC) industry with expertise in energy efficiency, control system strategy, passive building design and solar heating systems.

His comprehensive knowledge of these fields enables him to effectively evaluate the functionality of active and passive systems and implement site specific strategies to improve overall efficiency. Rob has many years' experience with governments and industry both within Australia and overseas and is a Certified Energy Manager with the Association of Energy Engineers.

CLIENT FEEDBACK

"Sustainable Focus have successfully delivered a range of projects for us. This solar project has proved exceptional value for money".

Tanya Roe
City of Holdfast Bay

KEY OUTCOMES

**GREENHOUSE
GAS SAVINGS**

**50
TONNES**



**ANNUAL ENERGY
SAVINGS OF**

\$13,000



ANNUAL YIELD OF

**67,000
kWh**



PAYBACK OF

**6.8
YEARS**



THIS RENEWABLE ENERGY PROJECT FOR THE CITY OF HOLDFAST BAY WILL HAVE A RETURN ON INVESTMENT OF 6.8 YEARS



THE PROJECT

Using our 4 Step Green Building Program, Sustainable Focus designed and managed the implementation of energy saving projects, including the installation of a large solar system on behalf of Council. Our transparent approach which ensures Council receives best value for money and high quality products and services.

The PV system consists of three separate systems to create a total of 46kW. REC 245 watt polycrystalline panels were selected for this project. This superior Norwegian product is ranked #1 in yield in Photon magazine 2011.

The panels are installed on the East and West facing tiled roofs. To maximise the available space the existing roof ventilators were removed which will also reduce the building's energy leakage.

SMA inverters were installed. The design consists of 2 SMA x STP15000TL inverters and 1 STP17000TL three phase inverters. The solar arrays are mounted on a dedicated rack/support structure. This design includes a space between rows to allow access for cleaning and maintenance.

GREEN BUILDING PROGRAM - THE 4 STEPS

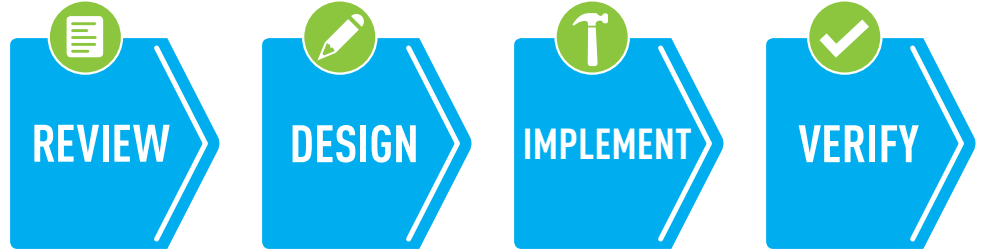


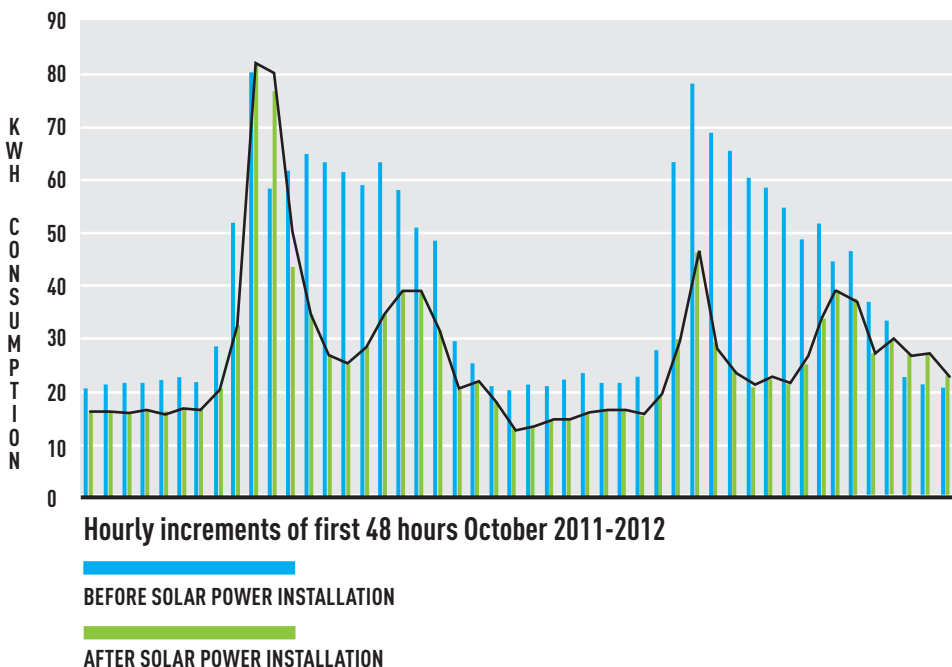
Photo supplied courtesy of The City of Holdfast Bay

THE RESULTS

The projects implemented at the Brighton Civic Centre will result in:

- Approx. 22% reduction in energy use
- Annual greenhouse gas savings of 50 tonnes
- Annual energy savings of \$13,000 based on 2012 energy prices

CONSUMPTION OF BRIGHTON CIVIC CENTRE



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