

# Portfolio: Commercial Solar

The Brief  
The Challenges  
The Solution  
The Outcome



GREENELEC PTY LTD  
GREENELEC.COM.AU  
02 9997 7700

ELECTRICAL + COMMUNICATION  
SOLAR + ENERGY STORAGE  
HOME AUTOMATION



# The Brief

---

- **Positive ROI**
- **High energy density in limited roof space**
- **Optimising produced energy**
- **Comprehensive monitoring platform**
- **Following strict safety guidelines**

VanDyke Press is a commercial printing facility operating 24 hours, 7 days a week printing for brands such as Chobani. The facility is located on the Northern Beaches in Sydney, Australia.

Our clients came to us seeking a solution to off-set their high energy draw from the grid for their operational requirements. Due to limited roof space and excessive energy requirements, it was critical to maximise energy production from the solar system during daylight hours. Having a clear and comprehensive monitoring platform illustrating the systems operation was important for our clients. And stringent safety considerations were critical during the install due to the business operating as per usual.

# The Challenges

---

There were favourable characteristics of the roof space including open, unshaded, even pitch, minimal perforations (such as aircon units) and excellent access for safety management.

However, due to the operational requirements of the company's energy demands, the roof space unfortunately was never going to generate the needed energy to offset the entire grid draw required by the company.

*"Understanding roof space was limited, product choice and system design was critical in providing an excellent solution for our clients"*





# The Solution

---

SolarEdge three-phase inverter and Trina solar panels were selected to achieve high performance of the entire system.

SolarEdge offers HD-wave technology with high efficiency and the warranty period is 12 years which can be expended to 20 years, for extra peace of mind of ongoing maximum performance assurance.

For the solar panels, we utilised 450Watt Trina solar with 21% efficiency which allows the entire system to gain an optimised energy production mark.

Furthermore, SolarEdge has an in-built monitoring platform connected to their inverters which allows our clients to view a comprehensive *individualised panel-level* monitoring system.

---

**We used the SolarEdge monitoring platform to give our clients a free, easy, and comprehensive portal to receive any necessities notifications and performance reports of the system**

---



# The Outcome

**Premium Energy Production**

**100% Produced Energy Used**

**Panel-Level Visibility**

**Superior Safety**

**Long Warranties**

We excelled at designing a gold-star system using premium products which has resulted in an outstanding result for our clients.

As projected, our system is generating approximately 129.48MWh of energy per year with a lifetime energy.

This equates to 20,140.21kg of CO2 Emissions Saved and is equivalent to 601.12 trees planted every six months.

While our clients energy draw still significantly overweighs the production capacity of their rooftop system, their monetary savings per year is approximately \$22,000. Our clients use 100% of their produced energy during daylight hours.

# Connect with Us



---

**To get a quote for your project, please call or email us**

---

**[greenelec.com.au](http://greenelec.com.au)**

(02) 9997 7700

[admin@greenelec.com.au](mailto:admin@greenelec.com.au)

13/4-7 Villiers Place

Cromer NSW 2099

