

Case Study: Commercial Manufacturer Grid Connected Solar System

System Stats

Application: Commercial
Factory, Solar Installation
Location: Royal Park, SA
Installed: May 2018
Key Brands: Fronius, Trina Solar,
Clenergy

Load Analysis

Ave Demand: 1,446kWh/day
Phase Connection: 3 Phase



Objectives & Site Considerations

A well established manufacturing facility with high power usage was seeking to reduce their ongoing power costs. An independent financial assessment was completed to confirm a solar installation would be the most viable investment.

The installation needed to be completed at a time when production lines would not be effected, and equipment location was of importance to maintain the existing work areas.

Plant operators required instantaneous visuals for generation, consumption, and logging historical data for reviews.

System Design

The system was tailored to maximise self consumption from the highest yielding roof areas, with a degree of insulation benefits throughout summer further adding to property efficiencies.

A different electricity retailer was selected to offer surplus solar feed in credits for non-operational periods.

- 560 x Trina 270W Modules (151.2kW)
- 4 x Fronius ECO 25.0-3 Solar Inverters
- 1 x Fronius Symo 20.0-3 Solar Inverters
- IntelliPro Grid Protection Unit
- Fronius LGC Compliant Monitoring
- Combiner Box and BOS
- Custom Inverter Wall Fitout

Project Outcome

The system is predicted to save almost \$370,000 in ten years - and pay for itself in under 5yrs.

The installation was thoughtfully planned so production and operation were uneffected.

A detailed monitoring platform was included so the plant operators have an instantaneous visual on generation and consumption, and saved historical data for ongoing reviews.

Off-Grid Energy Australia

Off-Grid Energy is a designer and installer of high quality battery storage systems for a range of applications.

We are a national company who pride ourselves on friendly and lasting customer service, sustainable business practices, and cutting edge technology.

Contact Us

1300 334 839
info@offgridenergy.com.au
www.offgridenergy.com.au