

Protechnic

Nailsea

Sector: Manufacturing

Technology: Solar PV

System size: 195kWp

Annual Output: 186,095 kWh

Annual CO2 savings: 111,657kg

Payback period: 4 Years

As part of phase one, Solarsense installed a 49.4kWp flat roof solar panel system on the factory roof in Nailsea. The grid-connected PV array was mounted to the roof using a ballasted base frame, containing 152 solar panels. The system generated in excess of 45,809kWh of clean electricity per year, whilst mitigating 17.5 tonnes of carbon emissions per annum. This initial system was designed to payback all installation costs within 4 years and will continue to generate a profit for the business for more than two decades.

Following the success of their first solar panel installation, Protechnic then returned to install a further 449 solar panels to increase their financial and carbon savings.

The total 195kWp commercial solar PV system now generates more than 186,095kWh of electricity per year. This energy is either used to power their manufacturing plant or fed back to the National Grid; reducing the organisations' carbon emissions by more than 111,657kg per year. As well as improving the company's carbon footprint, the large-scale solar panel system has significantly reduced the company's energy bill, saving approximately a quarter of their current energy costs.



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