



283 kWp

COMMERCIAL BUSINESS DISTRICT, SYDNEY

Sydney, Australia

Type: Commercial rooftop solar



KEY INFO		TECHNICAL SPECIFICATIONS	
Solar capacity:	283 kWp	Module type:	Yingli 270W PANDA Mono-crystalline
Services provided:	EPC, O&M, monitoring	Inverters:	Power-One TRIO-20.0-TL-OUTD / 27.6-TL-OUTD
Customer:	Australia Post	Orientation:	Two-pronged
Location:	Sydney, Australia	CO ₂ savings:	325 t annually
Connected:	March 2014	Production:	370 MWh annually

Photon Energy connects one of the largest rooftop PV plants in Australia

As part of their environmental stewardship strategy Australia Post redeveloped their New South Wales headquarter with the aim to create a modern, sustainable workplace for the future for Australia Post employees and tenants. Part of the redevelopment was the integration of solar power into the building's energy system.

Photon Energy designed, built and connected a large-scale rooftop power plant using a two-pronged orientation strategy. In total more than 1000 solar panels were fitted on the roof area of the building, utilising all available space.

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The power plant produces 371,000 kWh annually, saving 352 tons of CO₂ each year and assisted in achieving a 5 Star Greenstar and 5 Star NABERS rating (two rating systems for building efficiency in Australia). The power plant is used to cover daytime loads with the possibility to export surpluses to the grid, thus generating additional revenue.

The system is designed to cover a certain amount of electricity to the building per annum in order to meet the NABERS rating and utilises the available roof surfaces and exposed facades to maximise the output per square meter at the lowest cost per kWh.

The system is forecast to produce enough electricity to reduce the carbon impact of the facility by around 325 tonnes and the electricity costs by over \$65,000 each year based on today's prices.

Key benefits:

- ▀ Reduce electricity costs significantly
- ▀ Improve building ratings
- ▀ Turn company facilities into assets