

# Case Study: Integrated Solutions for Factory & Warehouse



**Background:** A residential and commercial products marketing company in Sydney West with over 12 permanent staff wanted to reduce their electricity bill reduced as they were paying on an average of \$1,100 per quarter

**The Challenge:** The task given to Solar Bright was to positively impact the workplace environment and reduce the greenhouse gas emissions and electricity bill.

**Project Tasks Identified:**

- a. Reduce the \$4,500 p.a. electricity bill down to manageable levels.
- b. Increase the use of natural daylight into the office and warehouse complex to enhance the natural work environment

**Solutions provided:**

Solar Bright did an Carbon Management study and worked out the following solutions:

- 1. Change the normal lights and tube lights to energy efficient LED lights and down lights.
- 2. Add a number of energy efficient skylights in the board room, kitchen & toilets to bring the natural light and practically eliminate the need to electric lights in that area.
- 3. To install a 18kw solar PV system to make the company more self reliant. The thumb rule of 60% of the solar energy generated would be used in the office hours was the parameter used.

**Install System Solution & its Impact:**

Average Consumption per day:	47kwh	Average yearly consumption:	16,500kwh
16kw Solar System Average generation per day:	77.6kwh	Solar office Net Usage:	31kwh
Solar generation exported	46kw		
Solar System savings @ 24 cents / kw	\$ 669 /qtr	Net Feed-in-tariff payback @ 6 cents	\$ 248 / qtr
Total Saving generated through Solar	\$ 3,668	Saving is %age	75.27 %
Total Electricity Bill	\$ 4,400	ROI on system cost	19%
Current Yearly Electricity Bill	\$ 1,088	Payback Period	5 years

Solar Bright works closely with all commercial offices, schools, factories, warehouses to arrive at an integrated solution to put you on the path to energy self sufficiency.

If you are looking for a solution call us on: 1300 852 622 or email [info@solarbright.com.au](mailto:info@solarbright.com.au)