



MEYER TIMBER - PENRITH, NSW

Designed and installed by Modcol

INDUSTRY: MANUFACTURER

REQUIREMENTS:

Keep electricity costs down

SYSTEM SIZE:

99.2kW

PRODUCT:

LG NeON[®] 2 A5 400W

ESTIMATED ANNUAL OUTPUT:

Approx 148,000kWh¹

INSTALLED:

January 2018

Design and install a high efficiency solar system to reduce power costs.



Estimated annual savings on electricity usage fees approx \$26,000¹



Approx 140 tonnes of CO₂ emission avoided per annum²



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BACKGROUND

Meyer Timber was established in 1975 in Dandenong, Victoria and is one of the largest timber wholesale operations in Australia.

The company's belief is that success is measured by the quality of customer service, and as such they pride themselves in providing outstanding customer service.

Meyer Timber is a clean energy friendly company and is leading by example whilst lowering costs of electricity to the company's expenses over time.

SOLUTION

Modcol recommended the LG NeON[®] 2 400W panels. A quantity of 248 NeON[®] 2 panels were installed on Meyer Timber's roof allowing space for the existing translucent panels to illuminate the working space below.

The system was completed using SMA Tri Power inverters and Solar Analytics monitoring system to create a very long lasting top of the line quality system.

CHALLENGE

Meyer Timber Penrith operations have a large quantity of machinery on site running during the day. Concerned with increasing prices of electricity, the company conducted their own research and decided to implement a strategy to reduce the costs of electricity. The company partnered with Modcol to design and install a high efficiency solar system to reduce their power costs.

Whilst the roof of the premises faces 0 degree north, the challenge for Modcol was to design the layout around the translucent panels on the roof split into many sections.



WHY WERE LG PANELS CHOSEN

LG panels were recommended by Modcol and chosen by the customer due to the reputation as a premium product with high quality and performance. LG panels have been recognised as innovative and cutting edge by industry experts increasing confidence in the quality and performance of the product. LG NeON[®] 2 panel generate more power per square metre, this panel is able to deliver up to 16% more electricity per square metre than a 280W panel of the same physical size.

¹ The estimated average annual electricity usage are estimates made by LG Solar™. The estimates made by LG Solar™ are based on the actual system size, estimated annual output of the system in the post code of the location with degradation of rated electricity production of 2% in the first year and 0.5% in subsequent years, as well as a lifetime of 25 years. We assume a flat electricity rate of \$0.25 per kWh, a feed-in tariff of \$0.11 per kWh (with annual increases of 2.5% per annum). Based on the industry the end-customer is in, we assume 80% self-consumption of solar electricity generated (e.g. for end-customers in the manufacturing industry we assume 80% self consumption from Monday to Friday and 20% on weekends (with corresponding 20% and 80% being exported into the grid), while for leisure based clients we assume 80% self consumption everyday and 20% being exported into the grid). We do not apply a net present value discount on the estimated annual electricity usage savings. Of course actual annual electricity savings will vary on a wide-variety of factors including installation conditions, usage and self-consumption patterns, actual hours of sunlight, electricity rates, feed in tariffs, increases in electricity rates as well as other factors. For further details and other solar calculators, please see: <https://www.lgenergy.com.au/solar-calculators>.

² The estimate for CO2 emissions avoided assumes that the entire electricity output of the system is consumed and the emission factor used is the weighted average for all Australian States based on the calculator available at carbonneutral.com.au. For more information, please see: <https://carbonneutral.com.au/carbon-calculator/>.