

CASE STUDY

SAM TECHNOLOGY ENGINEERING PTY LTD

FEBRUARY 2020
SMITHFIELD, NSW



SYSTEM SIZE 98 kW system

We are getting amazing results with LG Premium Solar for SAM Technology. For example, they achieved the following results with a 98.77kW solar system. On the 13/03/2020 Soltek Energy checked the performance of the LG Solar and SolarEdge system and it made 630 kWh/day of power for the facility on that day! Enough power to run the production and offices! In fact the solar power is greater than the daily power consumption of the business (620 kWh/day), so they were effectively off-grid that day! Our projections indicate that the LG solar system generates Annual Solar Production (saving) of 430 kWh/day kWh on average, contributing 45.2% to the site's energy consumption.



PROJECT SPECIFICATIONS



REQUIREMENTS:

- ✓ Looking to reduce their power bill costs
- ✓ Protect against increasing power costs in the future
- ✓ Looking to become more energy sustainable in power consumption

CHALLENGES: Shading

PRODUCTS:

PANELS: 238 LG NeOn2 415 kW

INVERTER: SolarEdge SE82.8 kW

MOUNTING SYSTEM: Clenergy Tilt Frames, 20°

MONITORING AND CONTROL SYSTEM:
SolarEdge monitoring application

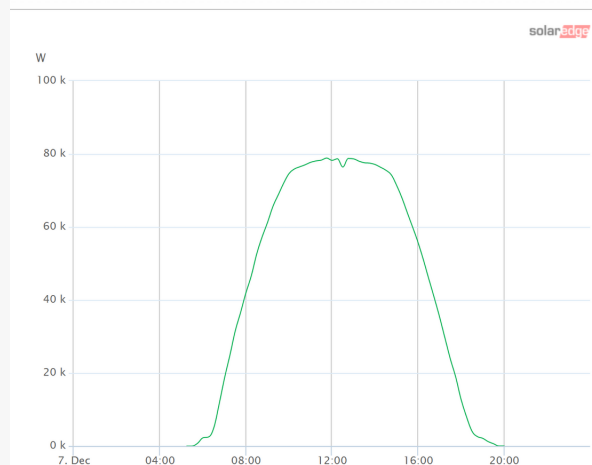


SOLTEK ENERGY ESTIMATE THE FOLLOWING:

- ✓ An ROI of 26.4%
- ✓ Payback 3.7 years
- ✓ A saving of \$836,000 after 25 years
- ✓ 90% improved performance on solar panels after 25 years guarantee from LG Corporation.
- ✓ A system that has 25 years performance & product warranty on solar panels and optimisers.
- ✓ Individual panel monitoring so you can see how much energy you are saving on the system and the panels at any moment of the day.
- ✓ A parallel design that doesn't stop saving energy, if a panel is faulty, unlike conventional string inverters.

SOLAR PRODUCTION ON A SUNNY DAY

System Production: 704.13 kWh



SOLTEK ENERGY

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