

## Autobarn Mount Isa

### Location

Mount Isa, QLD, 4825

### Project Completed

March 2013

### System Size

20.5kW

### Estimated Annual Production

42MWh

### CO2 Savings

36.5 Tonnes, that's 182 trees a year

### Return on Investment

4.8 Years

### 15 Year Saving

\$269,000

### Solar Inverter

SMA Tripower STP17000TL-10

### Solar Panels

82 x Trina TSM-245PC05

### Array Structure

Tilt Array – North facing at 20degrees

### Tariff

20



Q Energy solutions were called in to analysis and design a solar power system for Autobarn to offset their purchases from the grid.

By using the data logger as part of the energy management system QES was able to see that the business uses an average of 18kW during business hours.

The 20.5kW system was installed on Autobarn's roof and produces an

average of 108kW per day. The system was designed to offset the air-conditioning, lights and power used by the business in daylight hours.

**"Data logging is the key to accurately designing a solar power system suited to the individual business"**

The energy management system is the key to designing a successful solar power system. Many companies simply look at the last electricity bill and divide the power usage by days and don't actually look at how and when the power is used. QES use data logging to see trends in power consumption such as the time of day the power is used and to what capacity. By doing this QES can accurately design a solar system that directly offsets power consumption from the grid and sees maximum return on investment.



Considering a commercial solar project?

Contact us on **0447 400 748**