



**Q ENERGY**  
SOLUTIONS

## Carpentaria Buffalo Club



### Location

Mount Isa, QLD, 4825

### Project Completed

December 2014

### System Size

135kW

### Estimated Annual Production

264MWh

### CO2 Savings

229 Tonnes, that's 1,145 trees a year

### Return on Investment

4.4 years

### 15 Year Saving

\$1.88 Million

### Solar Inverter

3 x SMA STP20000TL-30

3 x SMA STP25000TL-30

### Solar Panels

540 X Trina TSM-250PC05A

### Array Structure

Tilt array

### Tariff

43

As one of the larger energy consuming businesses within Mount Isa, the Buffs Club set about to reduce its dependency on the grid and lower its electricity bill by installing a solar power system.

Q Energy Solutions were able to devise a power system tailor made for the Buffs Club by implementing their Energy Management System. This system allows QES to record power quality, monitor usage trends, perform analytics, tariff analysis and produce data energy efficient solutions. Based on these facts QES was able to design a system that perfectly suited the Buffs Club's needs and see an identifiable return on investment.

**"...reduce its dependency on the grid and lower its electricity bill"**

The project involved the installation of 540 Trina panels to the roof to make the 135kW system. Panels were mounted as a tilt array facing directly north to receive the maximum sun available. The panels feed into 3 x 20kW and 3 x 25kW SMA inverters. Trina and SMA were chosen for their proven reliability in North West Queensland's harsh climate.

With an estimated annual production of 264 megawatt hours (MWh) a year the Buffs Club will save 198 Tonnes of CO2 from entering our atmosphere, which is an equivalent of 990 trees a year.



Considering a commercial solar project?

Contact us on **0447 400 748**