

# University of Queensland

Queensland, Australia

Largest Commercial System In Australia Using Trina Solar's **TSM-PC05** Multicrystalline Modules

- Long-term reliability
- Best \$/kWh

**1.22<sup>MW</sup>**  
System

**38,700<sup>tons</sup>**  
CO<sub>2</sub> emissions  
saved

**5,004**  
Panels used

**Largest Roof  
Mounted**  
installation



**"Information from projects at a commercial scale is vital to improving the performance of solar energy and to encourage its uptake by both the private sector and the public."**

- Mrs. Anna Bligh, Queensland Premier

Sprawled across 4 campus buildings, the 1.2MW installation at the University of Queensland is the largest roof top on-grid PV system in Australia, comprising more than 5000 polycrystalline Trina Solar Panels mated to Power One inverters.

The system supplies around 6% of peak electricity demand on campus during the day, enough to power 800 households at once, totaling 1.85GWh of electricity a year. This substantial reduction in the University's carbon footprint is about the same as taking 335 cars off the road each year.

The PV system is a part of the globally significant research facility that provides real life monitoring data on energy management and the impact of embedded PV solar systems on power distribution networks.



The inclusion of a 200kW battery bank, connected to a 400kWp section of the installation, allows research into solar power capture techniques during the day and feeding it into the grid at night and other peak times.

This is a vital commercial-scale project to showcase the uptake of solar energy systems by both the private and public sectors in Australia, while enhancing Trina's existing R&D collaboration portfolio with the world's leading universities in the solar energy field.



Founded in 1997, Trina Solar is one of the leading PV companies based in China. Fully vertically integrated from ingots to modules in both mono and multicrystalline technologies, Trina Solar offers high quality modules. Listed on the NYSE, it operates worldwide to deliver the best value to its customers. In February 2011, we established a country management office in Sydney, Australia to better serve our customers in the region.

#### **Trina Solar TSM-PC05 Multicrystalline Module**

This is currently Trina Solar's most popular module. Versatile and adaptable, with power output ranging from 220 to 240Wp, the TSM-PC05 panel is perfect for large-scale installations, particularly ground-mounted and commercial rooftop systems. Using reliable and carefully selected components that are tested at the Trina Solar Center of Excellence, this panel comes with a 25-year minimum performance guarantee of 80% power production.

## **University of Queensland**

Australia's largest on-grid installation

#### **LOCATION**

**Queensland, Australia**

#### **TYPE**

**Rooftop mounted System**

#### **SIZE**

**1.22 MW**

#### **PRODUCT**

**Trina Solar TSM-PC05 240W Modules**

#### **# OF MODULES**

**5,004**

#### **CO<sub>2</sub> EMISSIONS SAVED**

**38,700 tons**

#### **COMPLETION DATE**

**June 2011**