

SOLAR DISPLAY

A D E L A I D E A I R P O R T L I M I T E D



Solar panels on T1 rooftop

COMMERCIAL GRID CONNECT TERMINAL ONE, ADELAIDE AIRPORT

In 2008, Adelaide Airport Limited unveiled a 114 kW solar electricity system situated on a north-facing section of the airport's Terminal One (T1) roof. The largest commercial solar installation in South Australia, the system was funded by the South Australian Government and the panels supplied by BP Solar.

The 760 photovoltaic panels installed are capable of generating approximately 160 megawatt-hours (MWh) of clean, green electricity for Adelaide Airport each year – enough energy to power 30 average Australian homes. Each year the solar system will reduce greenhouse gas emissions by approximately 160 tonnes – the equivalent of taking 30 cars off the road. By installing the grid-connect system, Adelaide Airport Ltd anticipates saving over \$30,000 each year in energy bills.

An educational display built in the airport's T1 concourse demonstrates how the solar system works and shows live electricity and greenhouse gas data from the rooftop installation.

Other energy efficiency measures implemented by the airport include daylight dimming controls of lighting systems, operating the air conditioning based on flight schedules, automated window blinds, and demand-controlled escalators and moving walkways using infrared sensors.



PROJECT COMPLETION:

July 2008

PROJECT VALUE:

Approximately \$1 million

SIZE:

114 kWp

AREA:

1,170 m²

ESTIMATED ELECTRICITY GENERATED:

Approximately 160 MWh per year

CO² REDUCTION:

Approximately 160 tonnes per year

SYSTEM COMPONENTS:

- 760 x BP3150 multicrystalline solar panels
- 19 x SMC6000 from SMA

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