

NEW AIRPORT TERMINAL



The new terminal was completed in March 2013 at a cost of \$420 million. The terminal is now capable of servicing up to 8 million passengers a year across 12 domestic gates including two international swing gates, 10 passenger boarding bridges and 14 Boeing 737-800 compliant parking bays. Future gate extensions are planned to cater for up to 12million passengers a year.

DESIGN

The terminal has been designed with sustainability in mind with materials chosen because they will last for a relatively long time. Materials have been chosen for their long life, distributing the embodied energy in their manufacturing process over a longer period. These materials include granite paving, metal pan ceilings, retro-glass wall linings, and high quality, thermally efficient glazing.

TRI-GENERATION

Two tri-generation plants will operate in the completed terminal. These plants use natural gas to power over 3MW gas generators to produce electricity. The excess heat is captured to heat and cool the terminal by using absorption chillers. Hot water is also produced which is available for use as domestic hot water.

LIGHTING

Lighting installed in the terminal operates under a Directly Addressable Lighting Interface (DALI) system where lighting is dimmed when areas are not in use. LED lights will also be installed throughout the terminal, and have been chosen because of their relatively long 10 year life and low energy use.

LANDSCAPING & SCULPTURES

Landscaping, sculptures and water features installed around the terminal are developed with the passenger experience in mind. Two striking design pieces have been placed in prominent locations around the terminal precinct with another two to come.

WATER

A 650,000 litre tank is installed under each multi-level car park. These two tanks collect rain and ground water which is then processed through a water softening system and used in the terminal for flushing toilets, operating cooling towers, and irrigation.

WASTE

The new terminal will include a back-of-house waste room with facilities for compacting comingled recycling and general waste. Bins will be installed throughout the terminal for both general waste and comingled recycling.

400HZ SYSTEM

Canberra Airport will install a 400Hz system for aircraft use at contact bays. This system will provide power to aircraft on blocks reducing aircraft fuel burn by not having to operate Auxiliary Power Units (APU).