

### Brisbane Convention & Exhibition Centre

June 2012

Brisbane Convention & Exhibition Centre is located in the city's unique precinct at South Bank, home to Brisbane's thriving arts and cultural community. The centre is built upon the site of World Expo Park, the roller coaster theme park built for the successful hosting of Brisbane's World Expo 88.

The original building was opened in 1995 at a cost of 170 million dollars and spanned 450 metres in length, 120m wide and 24m high. The complex roof design was based on five paraboloids with the building stabilised by concrete shear walls and clad in steel. A car park is located on the ground floor. In 2012 a five level, \$140 million dollar expansion of the existing centre was opened. The newly expanded centre delivers 25,000 square metres of exhibition space with the unprecedented flexibility of 44 meeting rooms capable of holding from 8 to 8,000 delegates.

With such a large facility, energy efficiency was integral to the expansion designs ensuring 'best practice' was met. With a 5 star green star environmental rating in mind, engineers required a lighting control system to deliver energy efficiencies through zoned switching with occupancy sensors and reduced modes for set-up and pack-down situations. It also needed to be flexible enough to cater for continual set-up changes, scene setting, and dimming control of different lighting sources including DMX Led fittings.

Having successfully supplied and commissioned the lighting control system for the original building we were sort out to provide the same knowledge and experience to the extension. dimming provides the majority of the switching and dimming demands across the site. Network bridges allow control of the led light sources and for ease of management across the site wide network, Controlsoft Advanced software loaded onto a head end PC was installed.

With old and new sections now fully integrated with continuing possibilities of expansion, the client has a lighting control system more than capable of seeing them well into the future.

#### Scope of Works:

- 264 x Network Relay Channels
- 240 x Network HF Ballast Channels
- 96 x Network Dimming Channels
- 5 x Network DMX Bridges
- 1 x Controlsoft Head End Control Package



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