

CASE STUDY / MELBOURNE CONVENTION CENTRE /

FAST FACTS /

- / Design and install a 22kv Substation complete with HV and LV Main Switchboards
- / Design and install four large Main Switchboards, generator board. All built by Elecraft
- / Design and install the entire lighting to a 6-star green star design rating system
- / Install lightning protection system
- / Cabling for theatrical production lighting
- / Carpark light and power, external public realm light and power



CLIENT /

Brookfield Multiplex

SERVICES REQUIRED /

HV substation, communications, electrical contracting, energy efficient solutions

TIMELINE /

May 2006 – March 2009

LOCATION /

Southbank, Victoria

CONTRACT VALUE /

\$24 – 31 million

The Melbourne Convention Centre Development (MCCD) is located at South Wharf on the south bank of the Yarra River, adjacent to and integrated with the Melbourne Exhibition Centre.

The MCCD features a 5,000 seat Plenary Hall. This challenging 'free span' space is divisible into three separate functional halls of varying capacity, a world first. The flexible element of this space contains mechanically operated revolving seating on height-adjustable flooring.

The Banquet Hall has a further capacity for 1,500 and is also a divisible space. In addition, there are 30 Meeting Rooms (also divisible). The Main Foyer area can accommodate 8,400 guests. The facility's kitchen and remote serveries can fully cater for all events within the Convention Centre.

Continuing the theme of flexibility, the number of changes applied during both design and construction phases represented a 70% growth from award to completion.

Underground reticulation was needed due to a lack of services access space around the Plenary Hall. Coordination with other in-ground services meant that we were excavating 3m below the surface in some instances. Water and seepage ingress barriers were implemented due to a tidal water table and the proximity to the Yarra River.

PSG Elecraft applied compliant exit and emergency lighting systems. This was challenging due to architectural limitations, particularly the irregular ceiling angles and heights.

Our 'green' experience was invaluable in achieving the green star requirements for efficient energy consumption and power density target values.