

Project Outline

Translational Research Institute (TRI)

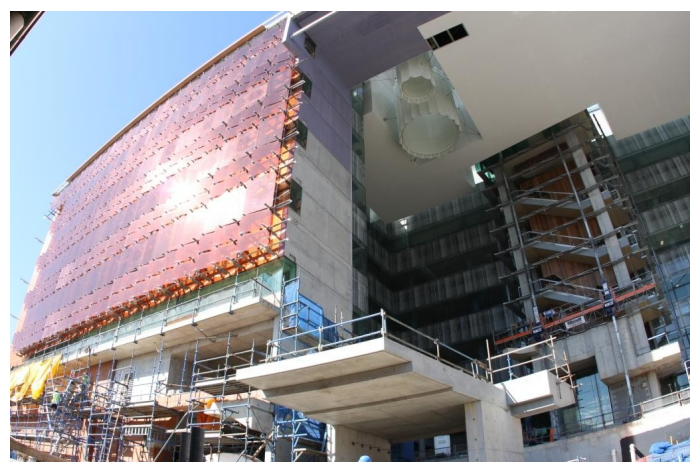
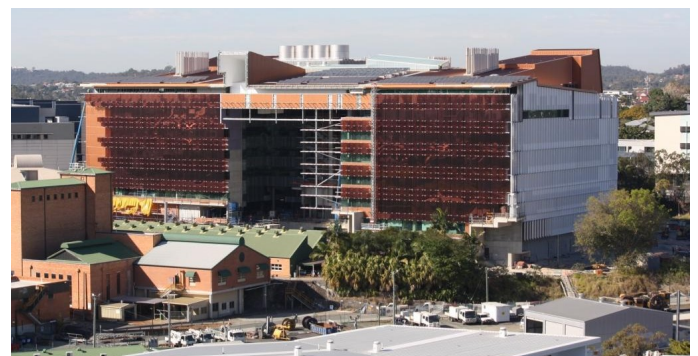
August 2012

The Translational Research Institute (TRI) built at a cost of \$354 million dollars makes it one of the largest medical research institutes in the southern hemisphere located on the campus of the Princess Alexandra Hospital in Woolloongabba, Brisbane. This seven-storey building comprises of four floors of laboratory research plus facilities for research support, administration and teaching. TRI Queensland when completed in late 2012 will eventually house under its 32,000 square metres over 700 researcher personnel.

The TRI building covers a number of different departments, each requiring varying levels of lighting control so the engineering staff came up with a tiered concept design. Tier 1 – conventional 240V control, Tier 2 – standalone self programmed and Tier 3 – fully networked control system with head end PC and integration with BMS and AV. The benefits of this design concept was that the level of lighting control would be “fit for purpose” and therefore reduce cost.

With this design brief in mind the Engineers then called upon us to provide its experience and expertise to the project. With a requirement of Tier 2 design to be self programmed and seamlessly function under essential and non essential supply conditions a new customised product was developed. The result was the creation of the Eco-Set relay coupler which has a number of programmable configurations which are dip switch settable and the Eco-Set sensor. The benefits of this were virtually no commissioning costs and self maintenance as onsite electrical staff could replace couplers themselves plus a low initial investment. Tier 2 equipment would be utilised in areas such as back of house, small offices and corridors with corridor hold facility available. Tier 3 was business as usual with our track record of delivering these networked systems for many years.

TRI, when complete, is set to enjoy a truly “state of the art” energy efficient lighting control system. Its easy to maintain Tier 2 network of over 2200 devices coupled with the Tier 3 programmable networked solution will serve this client well into the future.



Scope of Works:

- Tier 2
 - 887 x Standalone 2 Channel Fixture Couplers
 - 1391 x Standalone Programmable Sensors
- Tier 3
 - 304 x Network Relay Channels
 - 60 x Network Dimmer Channels
 - 92 x Network User Control Panels
 - 83 x Network Sensor (Intelligent PE Cell)
 - Controlsoft Server 4 Head End with Integration to BMS and Audio Visual