

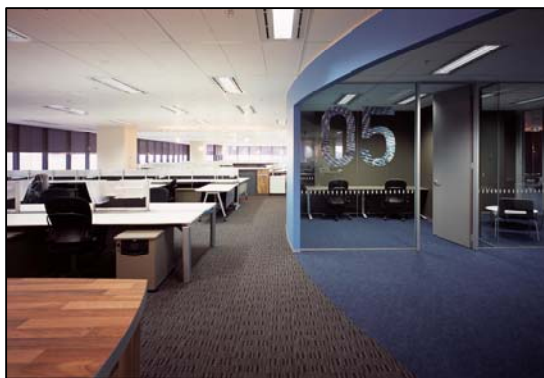
CASE STUDY

Westpac HQ, Sydney

Westpac Place on Kent Street in Sydney's CBD houses the Westpac Banking Corporation headquarters and accommodates approximately 5000 employees. Westpac moved into the complex in September 2006.

CTI Australia was responsible for supply and commissioning of the lighting control system. A well designed lighting solution was offered by Webb Australia which encompassed various aspects Westpac required including creating a balance between functionality and aesthetics, minimise operating costs and linking the lighting system to the building management system as well as offering a system which was easy to use and maintain.

To accommodate these requirements a combination of DALI and Beckhoff products were installed to maximise system flexibility and allow for any future changes. 35,000 light fittings were installed at Westpac Place and each one required individual addressing of the ballast. This is the key to flexibility which allows the lighting system to be re-programmed in the future.



Floor layout



Westpac Place

The lighting is linked to a high speed Ethernet network via an ethernet gateway allowing the operation and monitoring functions of the lighting system to be handled from a central point.

winDIM@net is networked to the audio visual system and the Cisco phones, with relays controlling blinds, louvers and projection screens. Lighting scenes have been programmed for different tasks such as conferences and presentations; with the press of a button on the phone or via a touch screen the system configures the area for purpose. winDIM@net also provides reporting capabilities, such as lamp and hardware failures offering a prompt and accurate maintenance information.

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Complete Technology Integrations

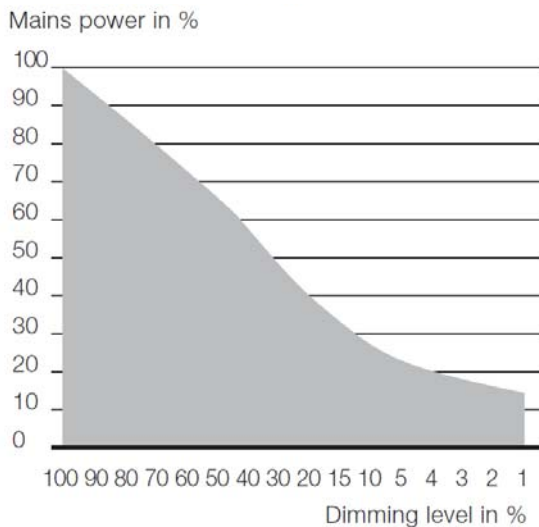
CTI Building Automation
CTI Energy Management
CTI SmartHome

CASE STUDY

Project Highlight

The project highlight was that during the commissioning phase it was determined via light level measurements that to achieve the required LUX level on each floor all the lights could be dimmed to a maximum level of 75% output. This has resulted in energy savings everyday of operation of the building as apposed to a conventional lighting control system.

Ballast Energy Savings



The above graph shows the direct energy saving comparison associated with dimming lighting. Westpac are continually saving 20% of energy costs associated with lighting.

CTI is extremely proud to have been involved in this project as the lighting management system is the world's largest DALI-controlled lighting system offering high levels of comfort, flexibility and energy efficiency.

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Project Information:

Value: \$280,000,000 (excluding fit-out)
Description: 33 storey plus car park
Floor space: Approximately 74,000m²
NABERS: 4 Star NABERS Energy Rating

System Components Used:

DSI amplifiers
DSI/DALI converters
DALI relay modules
DALI power supplies
DALI PIR
DALI LED driver
Beckhoff BC9000 Ethernet TCP/IP Bus terminal controller
Beckhoff KL6811 - dali loop
Beckhoff KL9100 - end terminal
Beckhoff LK1104 VFC input card for SCADA
Switch plates

Project Partners:

Product: DALI (Tridonic.ATCO)
Front End: winDIM@net (Tridonic.ATCO)
Electrical Contractor: Stowe Australia
Electrical Consultant: Webb Australia Group
Architect: Johnston Piton Walker
Owner: Westpac Banking Corporation

Dealer room

