



**ANZ TOWER**  
161 Castlereagh Street, Sydney



## ANZ TOWER 161 CASTLEREAGH STREET, SYDNEY

### PROJECT DETAILS:

|                        |   |
|------------------------|---|
| Location               | 161 Castlereagh Street, Sydney<br>NSW, Australia  |
| Type of Building       | Commercial Offices  |
| Investors              | GPT Group<br>Lasalle Investment Management<br>ISPT  |
| Architect              | Francis-Jones Morehan Thorp   |
| Developer              | Grocon  |
| Electrical Consultants | Aecom (Base Building)<br>Cardno (ANZ Fitout)<br>NDY (HSF & BCG Fitouts)   |
| Electrical Contractors | Heyday Group (Base Building)<br>KLM Group (ANZ Fitout)<br>John Goss Projects (HSF Fitout)<br>Kerfoot Electrics (BCG Fitout) |

### ABOUT THE BUILDING

ANZ Tower is the newest spectacular addition to the Sydney skyline and has been awarded the highest possible 6 Star Green Star - Office Design v2 rating by the Green Building Council of Australia.

Developed by Grocon and designed by leading architects Francis-Jones Morehan Thorp the building is home to ANZ Bank, global law firm Herbert Smith Freehills and Boston Consulting Group.

Officially opened in September 2013 ANZ Tower has a net lettable area of 59,000m<sup>2</sup> over 44 levels and features a number of sustainability features including high efficiency chillers, a tri-generation plant, a thermally shielded automated façade and rainwater harvesting.

The design of the building's iconic roof structure and highly glazed façade allows high levels of daylight into the floor-plate.

One of the key sustainability initiatives in the building is the KNX lighting control system from KNX award-winning Systems Integrators mySmart. At over 1,800 devices this is the largest and one of the most prestigious KNX projects in the Southern Hemisphere.

mySmart is immensely proud to be associated with ANZ Tower and has relished the opportunity to deliver an iconic KNX project of such size, scale and performance.

# KNX LIGHTING CONTROL SYSTEM



mySmart were awarded the four major components of the lighting control system comprising the Base Building and the tenancy fit-outs of ANZ, Herbert Smith Freehills and Boston Consulting Group.

The two main requirements of the lighting design were the need for flexibility in configuring the open-plan office spaces, including any future reconfiguration, and the need to maximize the efficiency of the lighting solution to reduce energy consumption.

The lighting control solution uses KNX control with the lighting ballasts on DALI networks. KNX/DALI Gateways from ABB ensures streamlined connectivity. An ABB KNX touchscreen located close to the lift core on each level and Hager KNX wall switches strategically located throughout the floor allow the users to manually operate the lighting in specific areas when required.

## ENERGY EFFICIENCY

To ensure the building's lighting system uses the minimum amount of energy daylight harvesting, presence/absence detection strategies have been employed. KNX detectors throughout the building constantly monitor the ambient daylight levels across the floor and automatically adjust the lighting to suit.

Combined with the presence detectors this ensures

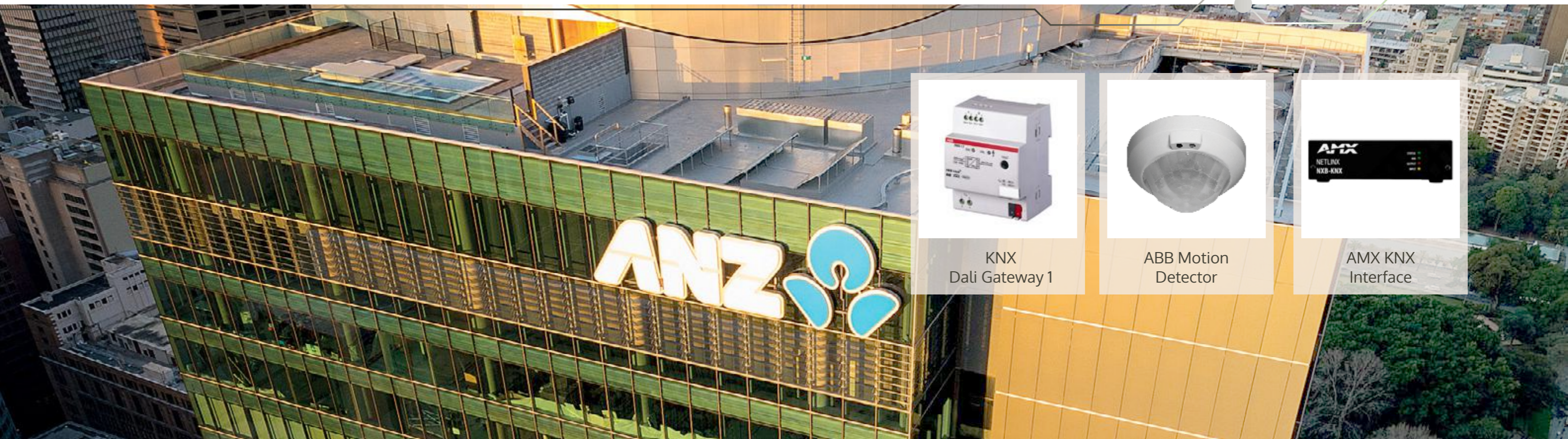
that the optimum light level is delivered whilst reducing energy wastage. Specific attention has been paid to after-hours lighting. Naturally the safety and security of any occupants working late is paramount and this is ensured whilst also using a minimum level of energy to do so. This is achieved through the highly flexible lighting solution and numerous interface points.

## BMS INTERFACING

An Ethernet backbone runs through the building linking the NETx Automation Voyager based lighting control server to the various KNX networks. Finally the KNX lighting control solution is interfaced to the Building Management System (BMS) via a KNX/BACnet Interface. This allows scheduling of the lighting in areas throughout the building including offices, carparks and the external lighting and signage from the BMS.

## AUDIO-VISUAL INTERFACING

A highlight of the project has been the interfacing of the tenants' AV requirements into the KNX lighting control solution. To achieve this over 30 AMX KNX interfaces have been used throughout the building's meeting spaces allowing the setting of lighting scenes and controlling the curtains and blinds within these rooms.



KNX Dali Gateway 1



ABB Motion Detector



AMX KNX Interface

## WHY KNX FOR ANZ TOWER?

In answering the question to why mySmart chose KNX for ANZ Tower over a proprietary solution, one must first consider the key benefits of the KNX protocol.

- KNX is a global standard
- Over 400 KNX manufacturers/members globally
- KNX products from all manufacturers are certified to be compatible
- All KNX manufacturers must be ISO9001 compliant
- KNX is independent from any hardware or software technology

For a systems integrator such as mySmart, the use of KNX in a project means that there is an almost infinite range of products to choose from and we know that these products will all happily co-exist and function together within the project.

For building owners, managers and tenants these key benefits of KNX will lead to better performance and reduced maintenance costs over the lifespan of the building. This is because as updated or improved KNX products or solutions become available they can be easily incorporated knowing that they are fully certified and compatible with the existing KNX solution.

An additional reason for the use of a KNX solution on the ANZ Tower project was that the tenant clients both had specific requests regarding the finish and functionality of the sensors and user interfaces that were simply not achievable with proprietary systems.

**mySmart**  
INTELLIGENT ENVIRONMENTS

mySmart is an Australian company at the forefront of creating intelligent environments across a wide range of sectors from smart buildings to smart agriculture. Our solutions are customer centric and incorporate innovative technologies and the latest sensor design, control, functionality and analytics.

Our highly trained, industry qualified Consultants and Smart Building Specialists design, optimise and service environments to enhance user comfort and productivity, whilst minimising operational costs and resource consumption.

mySmart, originally established as Complete Technology Integrations (CTI) in 2001, is a wholly owned Australian company. With a national footprint and over 60 employees, mySmart operates across a multitude of markets including commercial offices, residential, industrial & agriculture, government, retail, hospitality, health & aged care, education and leisure.

Our solutions include:

- Lighting Control and building automation
- Asset Performance Analytics
- Energy Management
- Smart building systems
- Guest Technology
- System Management Programs
- IoT Applications
- mySmart Sensors and associated products
- Unique custom solutions

mySmart. Building smart cities one mySmart Building at a time.

# mySmart

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