

GUI so that the ASB team One of the key factors in could monitor current light the project success, Harris readings throughout the believes, was Intelligent building as well as make Environment's early adjustments to different interaction with the client. zones to reflect changes "With many commercial in work hours. Holiday projects the specification schedules as well as contains only limited various exterior and feature information about the end lights - are all adjustable user's requirements. The by ASB personnel. The lighting control system is system also has remote designed and priced to access capability, so our meet the specification, but company is able to offer it may be a long way from the client full support with meeting the client's actual minimal disruption in the workplace."

"To avoid this issue Intelligent Environments offers consultation services at planning stage at no charge. We believed C-Bus was the best solution for ASB's needs and took the team to Schneider Electric's headquarters in Highbrook. This building not only uses the technology but is also specifically designed to demonstrate how it works and the potential benefits."

Intelligent Environments continues to work with the ASB team in the new building, assisting to identify energy-saving Schneider Electric (NZ) Ltd. 38 Business Parade South, Highbrook, East Tamaki, Manukau 2013

Automation integration and design: Intelligent Environments Ltd

Automation provider (C-Bus): Schneider Electric New Zealand

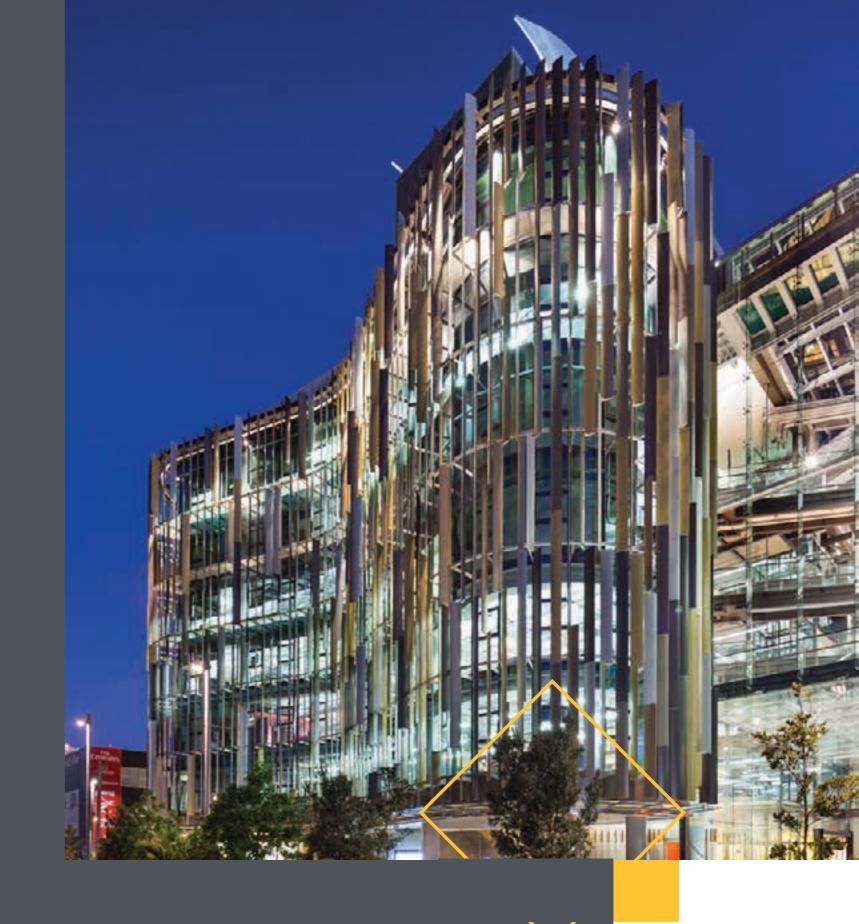
Electrical contractor: Bishman Limited

Technical Specifications: Control and dimming of DALI fittings Relay 10 and 20 amp control of exterior + feature lighting Adjustable schedules Occupancy controls Auditorium triggers and scenes After hours navigation Energy saving optimisation Daylight harvesting Schedule Plus software Customised UI with provision for client control Remote support Full TCP/IP network HVAC fully integrated with Schneider Electric BMS Occupancy control for HVAC Security - integration with

Fire - integration with third party system

Audio Video - integration with third party system

HARVEST ENERGY & SAVE



C Bus Commercial



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promotes sustainability

ASB North Wharf – the banking group's new head office in Auckland's Wynyard Quarter - is equipped with a state-of-the-art lighting control system that's helped the building earn numerous energy efficiency and sustainability awards.

SUSTAINABLE DESIGN ELEMENTS

"...we incorporated daylight harvesting into our programming. This means lights automatically dim – or switch off altogether - in areas where lux levels are high."

Boasting some 18,000m2 of modern, airy office incorporates significant sustainable design giant reflector on the roof to disperse natural light dependence on artificial

To optimise the abundance Auckland systems - supplied by Schneider Electric – provides artificial lighting only when and modest use of artificial lighting has assisted in green star rating" from the New Zealand Green Building Council.

C-Bus system, and general the country. "It required the programming of more some 160 intelligent light switches."

having used C-Bus many lighting control system and perfect solution for the building's unique energy

there is insufficient daylight,

"Because of the amount of C-Bus, he points out, not

"The technology also System (BMS), allowing HVAC system, for example, is automatically disabled in meeting rooms where there

## Absence Detection

Intelligent Environments' design introduced a number of innovative programming features, including "absence" detection. Absence detection, says Harris, has demonstrated a 10 - 12% energy saving over conventional programming of motion sensors for presence detection.

"When programmed for presence detection, motion sensors trigger the lights when someone walks into a room (and possibly the HVAC system) and then switch everything to off when no further movement is sensed, perhaps 15 – 20 minutes after the area is vacated. Although this ensures that lights do not remain on in an empty room, lights are often triggered unnecessarily, say when someone enters briefly to pick up something from their desk.

"With absence detection, upon entering the room the user switches on the light as normal, but on leaving the detector switches off the lighting automatically after a pre-set period. Lights can also be switched off manually. It's a different programming approach which consistently saves more energy, and which C-Bus' flexibility accommodates easily."



# INTELLIGENT ENVIRONMENT

"When programmed for absence detection, lights do not need to be switched on when entering a room for a short period of time"