

ACCOMMODATING FOR A SMALL ENERGY FOOTPRINT

Introduction

When it comes to the construction sector, the importance placed on energy conservation, efficiency and reduction of emissions whilst maintaining operational performance is of upmost priority. This was truly reflected in a recent project undertaken by Perigon and NHP - Student One, 363 Adelaide Street, Brisbane QLD.

Based in Brisbane, Perigon brings to market an extensive portfolio of successful projects, ranging from industrial installations and high rise buildings to small call outs and maintenance services. Like NHP, Perigon is Australian owned and operated providing electrical and communications engineering and contracting services to industry through specifically tailored designs, quality installation and sustainable solutions.

Toward the end of 2015, Perigon was engaged to supply and install the electrical, communications and security services on a high end student accommodation refurbishment that occupied almost 15,000 square metres of office space located in Brisbane's CBD. With a cohesive and holistic approach, Student One's building owner aimed to achieve a 4 star NABERS energy rating through an innovative design and solution.

Project Overview

With a building designed to house close to 727 students that were not required to pay electricity bills as part of their housing, it was acknowledged that negligent use of energy would likely transpire. To combat the overall energy footprint of the building, the End User required a solution that would help reduce power consumption. To coincide with this and promote good practice, an initiative was introduced incentivising occupants to be more conscious of their personal energy usage. For example, if their energy consumption was kept under a certain threshold during a set time frame, they would receive a discretionary reward.

The Solution

Perigon worked together with NHP to provide components that would contribute to a solution that met the project requirements. The equipment specified was chosen to enable Student One to access insight into the performance and operation of the retrofit building.

"We chose to partner with NHP based heavily on their reputation; having a strong commitment to customer relations, outstanding service and meeting requirements of projects with their multitude of line items," said Perigon's Joe Stefek.

The intuitive VMU-C energy meter combined with the EM2 web-server from NHP enabled Student One to manage the overall building.

The integrated web-server capability as a communication master unit can monitor up to 32 energy meters and display data in a standard internet browser, so the information can be accessed remotely.

"Working with Perigon and Student One, NHP was able to offer and implement a suite of products and solutions specifically tailored to local markets, which integrated seamlessly and we were able to satisfy and optimise the energy management needs," said NHP's Scott McDonnell.

As well as the web based energy monitoring system, NHP supplied Concept distribution boards specifically designed to improve and assist with acquiring NABERS and Greenstar based requirements.

The board included a split chassis design and integrated the metering system to capture the accommodation unit metering, meter validation in the factory as well as on-site as part of the commissioning process.



Above: Carlo Gavazzi VMU-C that was used in the project

NHP supplied a flexible range of DIN-T switchgear products to meet the needs of the ever changing demands of switchboard design. In conjunction with the DIN-T range of protective devices, NHP provided MOD6 switchgear where all devices were housed in MOD6 loadcentres.

"NHP has competitive prices across all switchgear and switchboard lines with fit for purpose products to meet the requirements of the specifications pinned to the project. All of this is backed by dedication and commitment from the NHP staff to ensure the project roll-out was successful and time frames were met," Joe Stefek continued.

NHP are proud to partner with Perigon to collaborate on an environmentally conscious project, educating the upcoming generation through the understanding of their energy consumption.

Providing a clear solution to meet requirements, NHP offered a comprehensive range, as well as local knowledge, expertise and product support to maximise the project success.

Project Fact File

Project: Student accommodation energy management refurbishment.

Location: Brisbane, Queensland

Details: Perigon and NHP partnered to supply and install electrical, communications and security services on a retrofit building implementing a solution to help reduce power consumption.

NHP Products/Services:

- Carlo Gavazzi VMU-C energy meter
- Carlo Gavazzi EM2 web-server
- Concept distribution boards with split chassis design and integrated metering system
- NHP DIN-T switchgear
- NHP MOD6 switchgear and NHP MOD 6 loadcentres

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