

About Us



We make buildings work.

Leading Edge Automation specialises in optimising building efficiency through the professional design and delivery of building management systems (BMS) and energy management systems (EMS).

We begin every project by understanding our clients needs, ensuring the most appropriate solutions are crafted from a cost, efficiency and technical standpoint. Each solution is designed to leverage new or existing infrastructure to maximise building performance and energy efficiency, while providing safe and optimal tenant comfort conditions for heightened productivity and performance.

Founded in 1992, today we have grown to a team comprising of over 250 employess located throughout the United Kingdom, Singapore, Malaysia, Australia & the United States of America. With decades of experience in building management, our team specialise in all aspects of planning, design, delivery and ongoing management of buildings and facilities across various industries.

Our ability to provide the expertise and resources expected from a multinational business without compromising on the agility and responsiveness that our customers require is what sets us apart in the industry.

With our network of fully trained personnel, you can be sure your project will be directly supported at all times.

We have now successfully completed over 3,700 BMS & EMS installations across the globe.



We are experts at building automation and energy management strategies.



We provide 24/7 control of facilities. All control is implemented to run facilities using the least of amount of energy economics of ownership.



We design, install and service customer projects with comprehensive 24/7 service support available.

Build Capability

We have a strong track record of managing and delivering a range of successful projects. Our success is supported by:



A proven track record for long term customer satisfaction and repeat orders.



Project and vendor neutrality – we use the best and most cost-effective solutions for your facilities.



Provision of innovative solutions utilising the latest technology.



Verified and guaranteed savings.



A commitment to a sustainable future.

Within Leading Edge Automation there is a great depth of experience spanning all technologies applicable to integrated building solutions to ensure the best outcomes for our clients. This integrated insight allows us to foresee risk, overcome potential issues and create seamless efficiencies in design.

Our solutions include distributed building control systems with powerful web-based reporting and operator interfaces. This includes very large scale integration platforms bringing together systems such as electronic security, smart lighting controls and energy measurement & verification to reduce the complexity of operating singular or multiple facilities.

The first organisation in the world to provide complete open native BACnet systems, we have been installing BACnet systems since 1996; six years prior to its adoption as the ISO and European standard for building automation. This early leadership in technology, combined with our understanding of the benefits of true system intergration & interoperability and the impact on long term cost of ownership have contributed to our continued growth and our customers success.

Leading Edge Automation is a business division within the Oberix Group. We have the unique advantage of our core strengths being complemented by other specialist business divisions within the Oberix Group.

Oberix Group Business Divisions

Each of our specialised business units focus on increased efficiency, high performance and optimised sustainability.



ALERTON AUSTRALIA (Australian Division)

LEADING EDGE AUTOMATION (Global Division)

We make buildings work

Leaders in building automation, offering a comprehensive range of building automation and system integration, energy services, monitoring tools and solutions to put you in complete control of your buildings.



CONSERVIA

Towards Net Zero

Your energy efficiency specialists helping you achieve net zero carbon emission buildings, sustainability and efficiency outcomes, taking all the risk to deliver guaranteed energy and cost savings.



OPERATIONAL INTELLIGENCE

Smart Building Specialists

Specialist space consultants that thoroughly analyse your business processes, identifying areas of improvement to increase workplace productivity, optimise operational efficiency and enhance the user experience.



ABAKUS ANALYTICS

Precision People Counting

The people counting specialists providing a reliable & accurate people counting platform that improves space utilisation and sales & marketing efforts through analytics backed insight.



QANTEC AUTOMATION

IoT Technology and Solutions Provider

Qantec pecialises in Internet of Things (IoT) solutions, transforming how businesses interact with the world. Our mission is to integrate advanced IoT technology into everyday life, making it smarter, safer, and more efficient.

Operational Intelligence



Effective buildings. Efficient Businesses. Engaged People.

Operational Intelligence (OI) are the smart spaces consultants of the Oberix Group, delivering smart cities, buildings & workplaces. OI deliver optimal space solutions focused on enhancing the user experience through increased workplace efficiencies.

User productivity and wellbeing is at the core of the OI business model, achieved through streamlining operational processes and day-to-day activities of building users.

OI brings a smarter approach to the design & development of agile buildings and spaces by considering every site's individual opportunities and unique needs. Combining our experience, understanding of customer needs and goals with the right technology, we ensure our clients achieve maximum ROI.

The team can work with your Architects and Planners, helping to define & assess opportunities that will increase workplace efficiencies early on in the project. We also work with Building Owners & Tenants to understand what brings value to their day to develop solutions which enables the workplace to be smarter and more responsive by eliminating barriers through a business process mapping strategy.

All building systems can be brought together under one umbrella to offer an integrated view of buildings portfolio data and increased visibility, control and automation within each of the functional areas of workplace management enabling better and more proactive decisions.

The teams strength comes from its ability to interconnect space, people, processes and technology across the workplace. In doing so, providing a strong foundation for collaboration, communication and business process management.

Working with OI, you can transform the way your assets are managed to achieve increased efficiencies, more effective utilisation and greater financial return.

Key Solutions:

- Integrated Communications Network
- Open Building System Interface
- Business Process Management
- Space Planning & Management
- Open Integration Platform
- Operational Building Information Modelling

Conservia



Towards Net Zero.

Conservia are the energy efficiency experts within the Oberix Group specialising in delivering sustainable solutions to create high-performing buildings with guaranteed energy savings. The team are committed to delivering improved operational performance and productivity for occupants in the buildings and spaces we develop.

The in-house energy solutions team comprises qualified auditors, Certified Energy Efficiency Specialists (CEES), Certified Measurement & Verification Professionals (CMVP) and NABERS accredited professionals. Our engineers and professional project managers have the ability to take projects of any magnitude from inception to completion right from planning, design, programming, implementation, commissioning and retro-commissioning a project.

Whether you are undertaking a single step or an entire journey, we provide end to end solutions that will accelerate your journey into a sustainable future. For businesses and facilities of any size we will provide the solutions you need to reduce energy consumption, achieve sustainability and reach your net zero goals.

With exceptional capabilities in project management, the team are well equipped to balance the triangle of cost, quality and program to give clients the best value for money.

Key Solutions:

- Energy Advisory
- Energy Auditing
- Energy Performance Contracting
- Building Performance Maintenance
- Measurement & Verification (M&V)
- Design & Project Management
- Commercial Office Building Services/ Fitout Management

Abakus Analytics



People Counting Specialists.

Abakus Analytics are the people counting experts of the Oberix Group, providing people counting solutions that improves operating efficiency through reliable accurate measuring of visitor traffic.

The team are specialists in the measurement, movement of people, leading the way for businesses to generate more from their strategies and budgets through real insight into spaces and data. You can gain actionable space utilisation and occupancy data to drive your future strategy and space planning.

Completely sensor agnostic, Abakus Analytics only use the most sophisticated IoT people counting sensors that perform under a vast number of conditions from retail and commercial buildings to educations and healthcare facilties.

The software provides an easy to use web portal to analyse business performance. Developed to streamline into managed IT environments, the system allows for unlimited scalability. Flexible access controls provide unparalleled management of data access to suit any organisation. The traffic data collected is combined with POS, roster and other data types to provide contextual analysis from which actionable insights can be derived.

The solution was formed by leading domain experts with over three decades of experience, developed using the latest technologies to meet modern business conditions and requirements. Abakus Analytics provides real data and metrics to transform the way you work, so you can be more informed, empowered and connected through every interaction and in every relationship you serve.

With an accurate means of collecting people counting data and the right analytical insights, you will be equipped with all you need to understand your people and make the most of your spaces.

Key Solutions:

- People Counting
- Space Utilisation
- Pedestrian Counting
- Occupancy Management
- Queue Management



Alerton Products Smart Building Software & Hardware



Alerton Advanced Control Module (ACM)

The backbone of Alerton's BACtalkTM AscentTM product line, the Ascent Control Module (ACM) is one of the industry's most agile controller in its class by combining Alerton's pioneering and proven BACnet® prowess with Tridium's® Niagara Framework® flexibility.

The ACM utilises NiagaraAX to integrate with protocols other than BACnet such as LON, MODBUS, and SNMP. As the first manufacturer, other than Tridium, to offer a building controller specifically designed to take full advantage of the NiagaraAX framework, the ACM is positioned to be the long term solution for your customers' control and integration needs.





VIP-363-HOA

The VIP-363-HOA is designed for central plant systems, air handling units, clean rooms, fume hoods, large terminal units, and similar control and process equipment.





VIP-363-VAV

The VIP-363-VAV is designed for pressure-independent control of any single-duct variable air volume (VAV) box; it has a field replaceable integral airflow sensor. The airflow sensor is factory calibrated at multiple velocity points. Minimum, maximum, and reheat airflows can be entered using a Microset wall unit or compatible operator workstation software.

VXIO-322-HOA / VXIO-965-HOA

The Alerton® VisualLogic® Expansion Input/Output Modules (VXIO) are designed to expand the I/O capacity of Alerton® VisualLogic® IP Controllers (VIP).



VXIO-322-HOA

VXIO-965-HOA



VLC-E Range

The Alerton® VisualLogic® VLC-E range is a versatile, BACnet-compliant, fully programmable field controller designed for central plant systems, air handling units, clean rooms, fume hoods, large terminal units, and similar control and process equipment. As native BACnet controllers, it integrates seamlessly with your BACnet system, communicating at up to 115 Kbps on a BACnet MS/TP LAN.

VAV-E Range

The Alerton® VisualLogic® VAV-E range is a versatile, BACnet-compliant field controller that provides pressure-independent control of any single-duct variable air volume (VAV) box. As a native BACnet controller, the VAV-SD-E integrates seamlessly with your BACnet system, communicating at up to 115.2 Kbps on a BACnet MS/TP LAN.



Optergy Products

Smart Building Control Systems & Integration Solutions

Optergy Enterprise by Optergy

Optergy Enterprise is an online real-time EMS, that connects your utility meters and systems together to offer unprecedented automated building optimisation and reporting. This information is viewed via an intuitive, user-friendly web interface that provides real-time notification, tailored to your needs. These reports can be accessed anywhere, anytime wherever there is internet connectivity. Optergy Enterprise is a leader in smart data management for operations and new initiatives like meter data capture and renewable energy.

Main features of Optergy Enterprise:

- · Real time and historical energy use monitoring
- BMS integration
- Flexible secure web based remote monitoring
- · Live performance data for tenants & public screens
- Tenancy energy billing by zone and tariff period
- · ABGR calculator and scenario simulator
- Demand-side energy management

Optergy Enterprise BMS & EMS along with its previous versions and models have been installed in over 2,800 buildings.

Proton by Optergy

Proton by Optergy is a web-based supervisor controller for simpler monitoring and control of buildings, big and small. This economical controller combines building and energy management features, manages up to 100 BACnet or Modbus devices, can connect to a companion mobile app, and features built-in programming and tools.

Main features of Proton:

- · Automated building management
- Automated energy management
- Energy metering and reporting
- · Web server with customisable content
- Remote management
- · All web based tools included
- Graphic displays
- BACnet IP and MS/TP
- Modbus IP and RTU
- Simple licensing



P864 by Optergy

The P864 is an edge controller that can add smart monitoring and control to any building. The Smart Edge Device operates building equipment autonomously and expands up to 8 IO modules totaling 144 hardware points. Connectivity is made easy via BACnet IP (PoE+), MS/TP, and MS/TP routing. The P864 is truly versatile, and can also be managed by 3rd party software using its built-in REST API.

Applications include systems such as HVAC, Central plant, VRF, lighting, hydraulic systems, along with energy, water, gas monitoring.

When coupled with Optergy software and more than 50+ built-in applications, contractors have a complete standardised solution for smart controls, smart metering, utilities billing, after-hours billing, automated reporting, live dashboards and foyer displays.

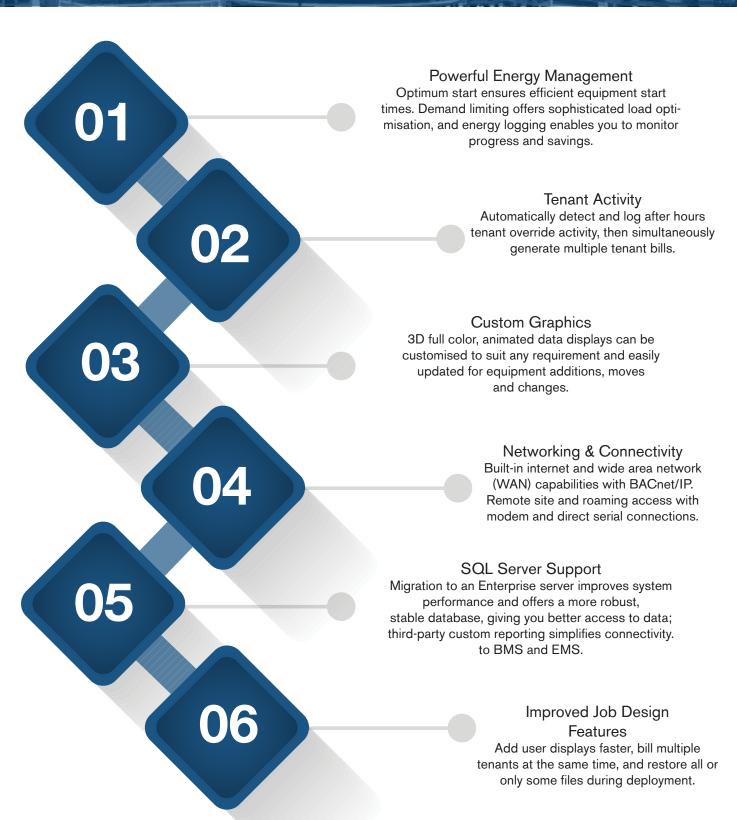


864e by Optergy

An input and output expansion module for use with the P864 controller. A single P864 controller can be expanded using 1 or more 864e modules to create up to 144 hardware points. Each 864e has the same footprint as the P864 and can be installed the same way. The connections are in the same place making it easiest to wire and save time at installation.

Optergy System Management Features

Seamless integration with your existing systems fed into an intuitive operator interface to help your team achieve your facilities maximum potential





Powerful solutions with unprecedented flexibility

To achieve the best results for our clients, all of our bespoke solutions are crafted with the following in mind:

- Energy Efficiency & Sustainability
- Interoperability
- Open System Architecture
- Scalablility
- Productivity
- AGBR Certification Solutions

Our BACnet® installations can integrate diverse systems for increased energy efficiencies and savings. Integration also brings the advantages of a unified point for alarm events from other building systems, by priority, day and time.

We offer a comprehensive range of energy services and monitoring tools that are backed by a team of professionals that include energy auditors, NABERS assessors and engineers. We understand energy efficient buildings still have operational requirements and as such ensure any energy conservation measures do not unduly compromise occupant comfort. All improvements are validated by real-time measurement of power, gas and water consumption, which also provides the data for ongoing building tuning.



Building Automation

Fully integrated and scalable (small to large) building controls and building automation systems that help facility managers achieve the maximum potential from their buildings to enhance the occupant and visitor experience. Real-time data and actionable insights better inform clients to transform their buildings into a more efficient, productive and sustainable building.

Integrated Solutions

Our integrated controls and building automation platform provides seamless integration with multiple building utilities and services such as security management systems (access control, CCTV and intrusion detection), lighting controls and space booking systems.

Energy Solutions

Customised solutions to ensure clients improve their energy efficiency and reduce costs. Our smart energy monitoring and control solutions include; building optimisation and tuning, energy services, metering solutions for gas, electricity and water, light controls and retrofits

Lifecycle Management

We provide support at each stage of the total lifecycle of facility management; from design and construction, through management, maintenance and upgrades, each with a focus on cost-effectiveness and high levels of performance.

Platinum Maintenance Agreement & Service Support

GUARANTEED RESULTS

Our Platinum Maintenance Agreement is a performance based service that provides continuous monitoring, tuning and support to achieve an agreed energy outcome. This guaranteed outcome can be either an electricity consumption target or a NABERS rating.

Shifting the focus to performance based outcomes provide a smarter solution resulting in higher efficiency and reliability for your building.

Using our technical knowledge we guarantee positive net cash flow to achieve no financial risk while providing the following benefits:

- A guaranteed outcome
- Increased facility performance with no large capital expenditure
- Building valuation uplift & future increased rental return
- Lower vacancy rates
- · Reduced equipment lifecycle costs

We offer a complete range of preventative and proactive service solutions which can be started during or at the conclusion of the warranty period.

Types of Service Agreements

	Preventative	Proactive	Platinum	Comprehensive
Periodic checks of plant and equipment onsite to ensure correct system operation	Yes	Yes	Yes	Yes
Reporting based on system abnormalities & alarming as per schedule	Yes	Yes	Yes	Yes
Creating backup files and ensuring network health	Yes	Yes	Yes	Yes
Working in conjunction with other trades and contractors for building repair works	Yes	Yes	Yes	Yes
Site specific consultative reviews	Yes	Yes	Yes	Yes
Sensor calibrations	Option	Option	Option	Option
Proactive system monitoring	-	Yes	Yes	-
Data driven prioritisation and smart alarming	-	Yes	Yes	-
Energy auditing	-	Yes	Yes	-
Detailed performance change reporting	-	Yes	Yes	-
Executive reporting	-	-	Yes	-
Proactive system upgrade and repairs	-	-	Yes	-
Guaranteed performance outcomes for energy and building objectives	-	-	Yes	-
Optergy energy dashboards	-	-	Yes	-
Replacement of faulty parts	-	-	-	Yes
Replacement of faulty parts and labour	-	-	-	Option

Example BMS

Dashboards

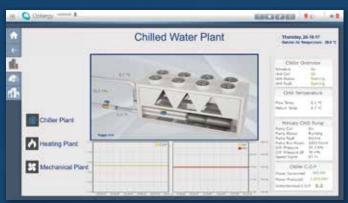
Building Management Systems

Smart integrated BMS combines all your real-time building data and information into one easy-to-use, graphic interface that reveals your building's performance at a glance with actionable data to facilitate the best performance out of your buildings.







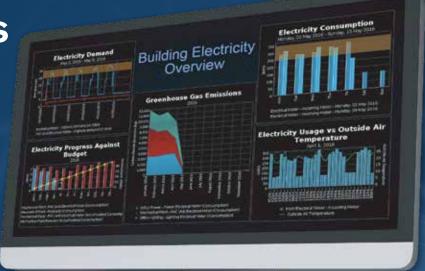




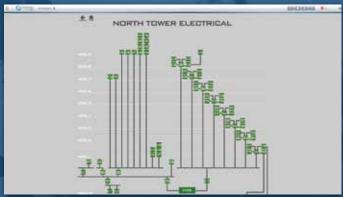
Example EMS Dashboards

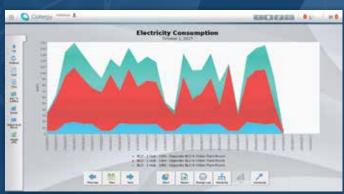
Energy Management Systems

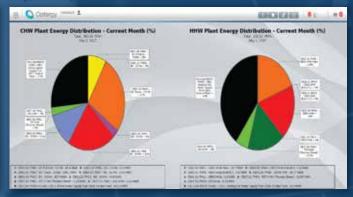
EMS solutions allow you to collect and analyse live energy measurement data from your buildings systems. Through online monitoring tools and energy analysis, you will be better prepared to manage your energy consumption and identify opportunities for energy savings.











Focused system optimisation & energy efficiency strategies

Why choose us?

Building owners, managers and contractors turn to our extensive experience to deliver reliable and customised automated building solutions that minimise costs and maximise return on investments.

Dealing with a highly experienced & trained team

Competitive pricing & lower ongoing cost of ownership

Flexibility of integrating to open 3rd party systems

Better product reliability with continuous research and development investment

Approachable management for fast results

Preventative maintenance plans, ongoing fine-tuning & 24/7 service support

Benefits

Solution Outcomes



Lower Annual Operating Costs



Reduced
Capital Expense



Improved Asset Value



Improved NABERS Rating



Improved Energy Efficiency



Lower Vacancy Rates



Improved Productivity

Guiding Principles

We achieve our client goals by delivering superior building and energy mangement solutions tailored to the requirements of each specific building.

Mission

To create intelligent automated buildings that are more cost effective, operationally efficient and manageable for their owners, and provide a more productive and safer environment for its occupants.

Values

We value safety, quality and the environment and act with integrity, honesty and passion to drive innovation and continuous improvement.

Quality products and services

Innovation and reliability

Teamwork and collaboration

Continuous learning for employees

Long term strategic perspective

Customer service and sensitivity

We achieve our mission by:

- Understanding our customer's needs and meeting their expectations.
- · Building strong customer relationships.
- Providing our clients with the most advanced software to manage building performance and energy management.
- Professionally managing and delivering systems that work on time, every time.
- Providing excellent support and service catering for each and every customer's individual needs.
- Generating strong, direct, working relationships with building owners across all market types, including commercial, healthcare, retail, higher education and industrial facilities.



The Team

Our greatest asset is our people. The dynamic & energetic culture embedded in our team allows us to find opportunities for our clients and support their success at every way.

Our project managers, engineers and technicians are conversant with working in operational and occupied buildings and our success stems from the broad experience and skill base our team has gained from working across various sectors. We are experienced with working on new building sites, hazardous environments and live production sites, understanding the importance of uninterruptable business continuity, where tenant comfort, and public health & safety is paramount.

As a group we are able to demonstrate our capability in:

- Energy Auditing
- Building Management & Design
- Project Management
- Client & Stakeholder Management
- Planning
- Seamless Programming

- Project Implementation
- Commissioning
- Witness Testing
- Retro-Commissioning
- Measurement & Verification

We provide comprehensive support with a team of highly skilled and experienced engineering personnel. Our staff and those of our partner organisations are fully trained to ensure we offer the most effective support, 24 hours a day, 365 days a year.

Project engineering is carried out by experienced project engineers. Should factory support be required the response to queries is normally same day or overnight. Our engineers have direct contact with product development teams and technical support engineers via telephone and email. In addition our internal network allows us to contact the whole group distribution network worldwide for advice or support.

The partnerships we create very early in the project engender confidence and trust and keep the team highly motivated while they strive to cross the boundaries ofperformance.



Occupational Health & Safety (OHS)

We are committed to providing a safe and healthy place of work. We will take all practicable steps to ensure compliance with OHS laws.

We are fully committed to:

- The health and safety of all our employees, contractors, sub-contractors, clients and the public.
- The health of the environment through a reduction in our carbon footprint which is a central part of the business.
- Providing quality products and service to our clients.

Our Health & Safety Management and Reporting procedures is regularly monitored and updated required. This responsibility extends to all aspects of our project and site management, including subcontractors and suppliers that visit and work on our construction sites.

Quality Management

We employ a Quality Management System that integrates our various internal processes and provides a systematic approach for project execution. This allows us to identify, measure, control and improve the core business processes that will ultimately lead to improved business performance.

Our aim is to always deliver quality projects that meets customer and regulatory requirements. Our quality management ensures we are constantly improving on our business processes and systems, ensuring we maintain our high level of customer satisfaction and service.











ISO27001

INFORMATION SECURITY

MANAGEMENT SYSTEM

Our Sectors

Commercial

Retail

Education

Government

Healthcare & Hospitals

Residential/Accomodation

Military & Defence

Pharmaceutical

Data centres

Industrial

Specialised

No matter what industry you are in, we can deliver leading integrated building automation and energy management solutions which offer flexibility and ease of use unmatched in the industry.

Refer to some of our project overviews that clearly demonstrate our capability and credibility.



International Offices



Australia

Singapore

Malaysia

United Kingdom

United States of America

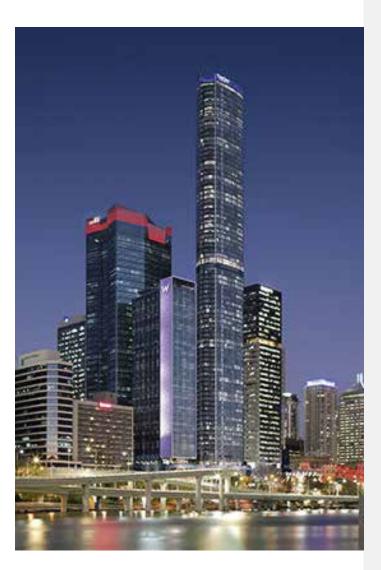
New Zealand

Sri Lanka

Pakistan



Commercial



300 George Street

Brisbane City, QLD, Australia

300 George St is an 800 million dollar development, Brisbane's largest integrated CBD development. The first integrated, mixed-use precinct in Brisbane made up an 82 storey residential apartment tower, a 39 storey office tower and a 32 storey five star hotel tower. This development is intended to achieve great building efficiency with a 5-Star Green Star and a 5-Star NABERS rating.

We are the BMS providers for the Hotel Tower and the Commercial Tower, chosen as the best option to maximise efficiency, minimise operating costs and reduce the environmental impact of the commercial tower.

We are controlling the new cooling towers, AHUs, PAC units, VAVs, and fans while integrating with the existing central energy plant, new hydraulic services, fire services, lifts, and the building's EMS.

Bay Centre

Pyrmont, NSW, Australia

A modern five level A-grade waterfront commercial office complex, comprising 22,197m2 & 123 car spaces.

The BMS we delivered controls the main plant chillers, boilers, air handling plant and 260 VAV's and our EMS provides actionable information that helps the client invest in and drive energy efficient decisions.

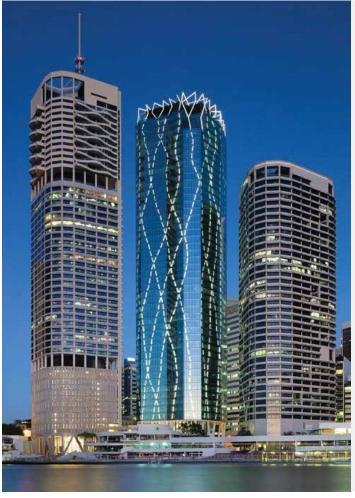
The developer signed up to a Platinum Maintenance Agreement where the focus of service was to save energy through continual monitoring and upgrades, using BMS control strategy upgrades, EMS analytics, as well as minor lighting upgrades.

Achievements:

First 6 Star NABERS rating building for energy efficiency without green power.







One One Eagle Street

Brisbane City, QLD, Australia

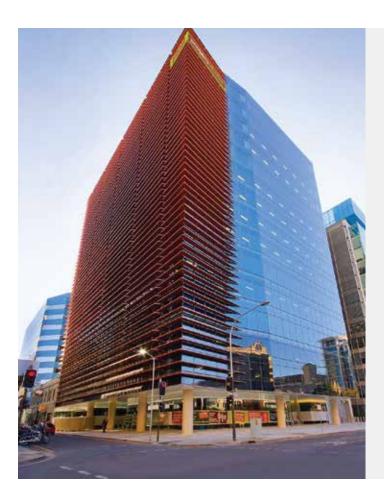
Deviating from their previous arrangement where their sites were subcontracted out by the Mechanical Services provider, The GPT Group decided to align all BMCS service providers across all sites.

We hold the group BMS maintenance across 5 sites ensuring a direct relationship with GPT to ensure consistency in service delivery with defined KPIs.

Achievements:

6 Star NABERS Rating & 6 Green Star Rating.





50 Flinders Street

Adelaide, SA, Australia

50 Flinders Street occupies a highly prominent location in the Adelaide CBD office core. The building is a 15 level, A-grade office tower with 21,750 sqm of NLA. The building will be serviced by a chilled beam system and the development was designed to a 5 star Green Star requirements, and targeting 5 star NABERS rating.

We provided the BMS and deliver ongoing building tuning and optimisation strategies, in particular using the Optergy NABERS Indoor Environment Quality tool for deeper onsite analysis to ensure optimal comfort conditions and managed and maintained.

Achievements:

South Australia's first 6 Star NABERS Energy rated office building (without GreenPower) and Indoor Environment Quality ratings for its base building.



Tiong Seng Group

Singapore

With an established track record of over 50 years, Tiong Seng is a home-grown leading construction and civil engineering company in Singapore. Tiong Seng Building will be the new home to Tiong Seng Group. It consists of offices, workers dormitory, training facility, industrial use for maintenance, construction equipment and ancillary storage.

Key solutions included:

- Variable refrigerant volume (VRF) for control and energy monitoring
- Control & monitoring of electrical & water
- Energy consumption monitoring
- Monitoring of essentials services.
- Lighting controls
- Public displays



230 Blackfriars Road, London

Located in the heart of London's Southbank,230 Blackfriars boasts over 30,000 sq ft of commercial office space. This project proposed a full BMS upgrade which included the integration of 250 FCUs onto the new Optergy platform, Controller upgrades and much more.

Key Solutions Included:

- Fan Coul Units
- CAT 5/6 Backbone
- Controller Upgrades
- Optergy OE Server





15 Mallow Street, Old Street Yard, London

Located adjacent to the bustling Old Street roundabout, Old Street Yard embodies a collection of low-rise, eclectic warehouse-style structures, blending both historic charm and contemporary architecture in the heart of East London. Notably nestled around the iconic White Collar Factory, this vibrant hub offers a unique urban environment.

As part of this project, the existing main plant room's BMS controllers underwent a seamless transition, with the introduction of state-of-the-art Optergy P864 systems.





76 Upper Ground, Southbank, London

Nestled in the heart of London along the River Thames, the renowned 76 Upper Ground, formerly recognised as the IBM Building is currently undergoing redevelopment. This project holds the promise of delivering a cutting-edge office space.

The Grade II listed building is to be remodelled and rejuvenated to the design of AHMM architects. The redevelopment includes 300,000 sq ft of office space, 50,000 sq ft of terraces all while preserving 80% of the existing structure.

The 18-month construction is being led by Multiplex who are targeting BREEAM Excellent, WELL Gold and NABERS 5-Star Ratings. This EMS project monitors over 500 metered devices.

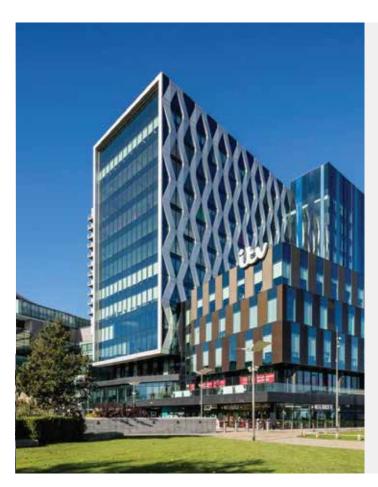
Suffolk, St James, London

In one of London's most exclusive areas, this refurbished period commercial office space boasts exceptional environmental performance and a wealth of amenities unseen in buildings of this size. Dubbed 'The Best Small Building in London' we successfully delivered the BMS and EMS at this five-story office building.

Key Solutions Included:

- Electrical and Water Meter Monitoring
- Air Sourced Heat Pumps
- AHU's
- VAV's
- VRF's
- Leak Detection Units
- Cold Water Storage Tanks
- MVHRs





ITV Orange Tower, MediaCityUK, Manchester

Located in Salford, Greater Manchester, The Orange Tower serves as the headquarters for ITV in the North of England.

Since the construction of MediaCityUK back in 2007, it has become a major centre for media and digital businesses also attracting a spectrum of dining, shopping, and residential facilities. We provided an energy-efficient EMS solution monitoring the Electrical Meters across the site.

Workspace - Salisbury House

Tucked in the historic Finsbury Circus, Salisbury House is an impressive grade II listed building that has had several former lives, including as a hospital and a vault for international jewellery shippers. Salisbury House provides modern office and studio space across eight refurbished floors, totalling 240,000 sqft, including a Rooftop Terrace. We delivered the BMS and EMS across the historic building.

Key Solutions Included:

- FCU's
- Overdoor Heaters
- MVHR's
- Heat Exchangers
- Boiler's
- Heating Pump's
- Calorifier's
- Fan's
- Electrical and Water Meter's





Workspace - Edinburgh House

Situated just south of Central London in the heart of Kennington lays Edinburgh House; a six-storey redevelopment of an existing 1960's office building configured to provide both commercial office space and studio units. We delivered a full BMS system across this 80,000 sqft building.

Key Solutions Included:

- AHU's
- FCU's
- Boiler's
- Heating Pump's
- Chiller's
- Fan's
- Gas, Electrical and Water Meter's
- Calorifier's

ITV Bovingdon Studios

With over 80,000 sqft of purpose-built studio and stage space, Bovingdon Studios is one of the UK's most flexible film Studios near London. It boasts a wide range of facilities such as a Production Office, Dressing Rooms, Makeup & Hair Room along with Medical Rooms.

Blockbuster productions such as DC's Justice League, Fast and Furious and Bohemian Rhapsody have been filmed at this facility. We provided an energy-efficient EMS solution monitoring the Electrical Meters across the site.



Central Park

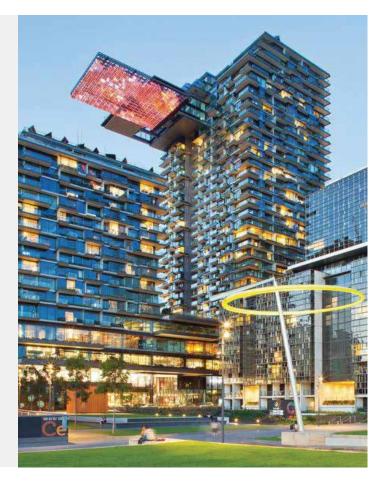
Sydney, NSW, Australia

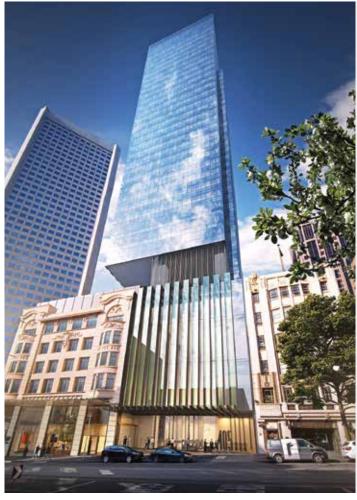
Central Park consists of two towers that house over 300 residential apartments, 6 levels of office space and 17 level of hotel accommodation.

We provided the BMS, EMS and in-home displays at Block 1 & 4N and Building 8 Residental Tower at Central Park, all sitting on a enterprise level backbone.

Key solutions included:

- Central tri-generation thermal plant
- District plant control, monitoring, tuning and maintenance
- ICN backbone design, install and implementation for building services (security, mech services, lighting & lifts)
- Customised BACnet displays for tenant control and monitoring of HVAC, energy consumption and intercom (audio & video)





405 Bourke Street

Melbourne, VIC, Australia

We delivered the BMS, EMS, mechanical electrical for 405 Bourke Street, developed by Brookfield & ISPT. The 39 level building will reach approximately 167 meters high and offer 30 office floors (66,000 sqm) of Grade A office accommodation with Premium Grade services.

The tower is targeting 5 Star Green Star and 5 Star NABERS environmental performance.

The new development involves the construction of:

- 30 commercial office floors (L9 to L38)
- Modification to the existing retail precinct to provide a new entry for the new major office tenant (NAB)
- Podium car parking, the majority of which will be within the existing car park to be retained
- · Bike parking on lower ground
- End of trip (showering and locker) facilities on basement Level 1
- · A loading dock on lower ground



King Square 2 Perth, WA, Australia

Kings Square Stage 2 is the first development in the new Perth City Link Precinct. Located north of the CBD, the precinct will become a major mixed-use destination. The building provides 18,400m2 of office space and 850m2 of commercial retail space.

We provided the BMS & EMS for the base building and tenant fitout. We continue to provide a Platinum Maintenance Service to the tenants for continued building performance and improvement throughout the daily operation of the building.

ARC 380 Singapore

Strategically situated within the central District 12, Arc 380 is a freehold commercial development comprising of 144 offices and 23 retail units, complemented with landscaped sky terraces with roof top swimming pool and gym facilities.

Presented as the new landmark in town, the development is seated at the junction of Lavender Street and Jalan Besar.

Key solutions included:

- Control & monitoring of fan coil units (FCU) for office and common areas
- Control & monitoring of chiller plant room
- Control & monitoring of mechanical ventilation fans
- Electrical consumption monitoring



Westfield Shopping Centre

Parramatta, NSW, Australia

Westfield Parramatta Shopping Centre is one of the largest centres in the southern hemisphere spreading over 137,000m² of retail space.

We were engaged to perform the BMS upgrade of the centre as part of an Energy Performance Contract. The upgrade included cutting over the existing system as well as installing new points in the field to bring it up to today's standards ensuring the centre continues to operate at maximum efficiency, while allowing the centre to offer heighted comfort and ambience for all.

We have delivered the BMS for various other Westfields including: Westfield Coomera, Westfield Mt Druitt, Westfield North Lakes Link Mall, Westfield Penrith, Westfield Tuggerah & Westfield Warringah Mall.





Eastland

Ringwood, VIC, Australia

Multi-million dollar expansion of the Ringwood Shopping Centre and construction of the new Realm Library installed with the Alerton BACtalk® system. We undertook the BMS fitout works for Level 3 of Eastland for the tenants Goodlife and Holy Moly, and David Jones.

The project included:

- Automated lighting control system for shopping mall areas, town square and car parks
- Complete heating hot water, chilled water and condenser water plants
- AHUs and exhaust systems serving shops over two levels
- Electrical, gas & water consumption monitoring
- Vertical transport monitoring



5 Marine Parade Central Singapore

5 Marine Parade is a new 4-storey retail mall with a cinema complex in Marine Parade Central, comprising of multiple restaurants, retail stores and four basements levels (comprising two basements shops and two basement carparks).

Alongside the commissioning of the centre's BMS we provided energy efficiency services including energy & utility monitoring for the developers, and undertook a chiller plant energy audit.

Key solutions for this project included:

- Chiller plantroom optimisation
- Chilled water FCU optimisation
- Landlord/Tenancy FCU controls and monitoring
- · Landlord/Tenancy utility billing
- 100+ energy and BTU meters
- Professional engineer energy audit, DSE & OSE reporting

Katong Shopping Centre Singapore

Katong Shopping Centre is Singapore's first air-conditioned shopping centre.

This project was a full chilled water (CHW) system replacement, complete with calibrated sensors & datalogger system. All the existing CHW system equipment was decommissioned and brand new equipment was installed. We supplied, installed, engineered, tested and commissioned the BMS and EMS for the CHW plant only along with our measurement and verification data logging system.

We have assisted the client in greatly surpassing the efficiency expectation of 0.6kW/RT with the new system.



Education

Swinburne University

Hawthorn, VIC, Australia

Swinburne University were the first university in Australia to install BACnet® into their facilities. As early as 1996 Swinburne installed an Alerton BACtalk® system into the Prahran campus building.

Frustrated with the problems of proprietary lock in and vendor initiated obsolescence, Swinburne have taken full advantage of BACnet® to have a positive impact on building automation systems from a user's point of view. Swinburne has continued to install BACnet® systems across its campuses and because of competitive pricing and high levels of service over many years have chosen to partner exclusively with us to expand their BACnet® systems through multiple buildings networked across three campuses using the university WAN.



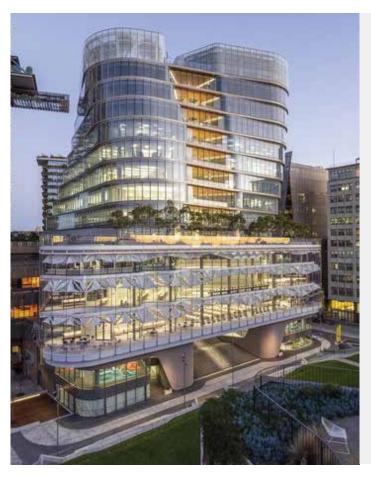
Monash University

Clayton & Parkville, VIC, Australia

Monash University campuses are spread across various location in Victoria. We were engaged to deliver the BMS & EMS upgrades across multiple Monash buildings with varying building optimisation & energy management strategies to achieve optimal indoor environment comfort conditions and energy efficiency.

The various projects encompassed aspects of integrated building solutions around mechanical, electrical, gas, water, ESD, vertical transportation, hydraulics, fire & security.

We have delivered solutions for various other Monash sites including: Clayton New Horizons, Clayton Matheson Library, Clayton Boiler House, Clayton Building 220, Building 35 & Senior Physics Building.



University of Technology Sydney

Ultimo, NSW, Australia

We delivered the BMS & EMS across this campus. The UTS Broadway campus is made up of multiple buildings which now have 1100+ meters integrated to a central server over 11 buildings.

The EMS monitors the electrical, water, gas and thermal utilities. OE was installed in the Universities data center. Using the Universities backbone gateways have been installed around the campus which than connect directly to the meters. Electrical meters with internal memory were used which are able to store up to a years data in them, and in the event that communication is lost between the meter and the server, the server will simply read the data from the memory and rebuild it in the database.

Valour Primary School

Ministry of Education, Singapore

Valour Primary School is a new campus in Punggol opened in 2020. Working closely with NCAE and Tiong Seng Construction we successfully delivered the BMS to optimise the building performance and comfort conditions at this public school.

Key solutions included:

- 600+ energy & water metering
- Mechanical ventilation fans
- VRV integration
- Electrical monitoring
- Water & fire protection system monitoring
- Public displays



Healthcare & Hospital

Northern Beaches Hospital

Frenchs Forest, NSW, Australia

The new nine storey Northern Beaches Hospital includes both private and public hospital services.

We delivered the complete BMS and EMS ensuring that these systems maintain temperature, humidity, pressurisation and lighting while meeting the comfort and safety needs of patients.

This project involved comprehensive thermal metering (over 200 thermal meters), water and gas metering (over 200 pulse meters), and electrical metering (approxiamtely 300) for billing. The project also included control of the chilled water (CHW) system, heating hot water (HHW) system, surgical room pressure controls, touch-panel nursing station controllers, and interfacing with services including fire, hydraulics, electrical, backup generators, lifts, lighting, security and other services.





Gladstone Hospital

West Gladstone, QLD, Australia

Gladstone is a regional base hospital located in North Queensland. Due to the humidity levels in this region, it requires the BMS to be closely monitored and control dehumidification. The BMS controls the sensitive pressure and temperature control to the operating theatres as well as the wards and administration areas.

This project involved replacing and upgrading the hospital chiller & cooling tower plant. Project works consist of 3 chiller and cooling tower plant replacements and the installation 2 new chillers and associated plant.

Key solutions included:

- Chiller upgrade
- · Software alterations for auto dialout
- SMS alarm module
- Negative gas panels
- Central sterilizing dept refurbishment (CSDR)



Calvary Adelaide Hospital

Adelaide, SA, Australia

The new Calvary Hospital is the largest new private hospital to be built across Australia in the last decade, and the development continuances help position Adelaide as a Specialist Medical Hub.

This project involved the installation of a new base building BMS to serve the new private hospital, including a number of new operating theatres, and refurbishing a number of buildings across the site. Existing buildings were cut over to the new open protocol BACnet BMS.

We also delivered the tenancy fit outs for a variety of medical specialists, Doctor Jones Pathology Group, and for Consulting Specialists at the new Calvary Private Hospital.

Key solutions included:

- Chillers
- Cooling Towers
- Boilers
- Air Handling Units (AHU) Energy Recovery
- Variable Air Volume (VAV)
- Fan Coil Units (FCU)
- Exhaust Fans (EF)
 - Energy Recovery Ventilators (ERV)

Goulburn Valley Health

Shepparton, VIC, Australia

Goulburn Valley Health is an acute and extended care facility operating as the main referral health service for the Hume region.

We delivered the BMS as part of the redevelopment of the Goulburn Valley Health Hospital with new and expanded facilities to ensure people can gain faster access to first class care.

The works predominantly centred around new state of the art operating theatres for the region and mechanical control of these theatres as well as offering high visibility and control to theatre operators.

Our BMS has provided the capability to predict challenges, respond to changing conditions and deliver regulatory reports to ensure crticial conditions are managed alongside improve patient care.



Residential/Accomodation

Hilton Hotel

Melbourne, VIC, Australia

We delievered an extensive BMS & EMS refurbishment for Melbourne City's first Hilton Hotel. The newly constructed hotel has preserved the building's heritage significance, and offers 247 hotel guest rooms, meeting rooms, bar and restaurant spaces, kitchen facilities, office spaces & staff amenities.

To ensure an ideal guest experience, wireless temperature sensors, integrated thermostats & wall controllers were installed that allows occupants to remotely control and manage their room conditions with ease.

Hilton's management team will be able to oversee all building operations with complete access to monitor and control all meters and equipment, including viewing trend logs and receiving alarm notifications to detect any faults. With access to energy consumption reports, future building tuning will be optimised to help reduce energy consumption and meet the expected energy targets.





Eccleston Square Hotel, London UK

Recognised as one of the best boutique hotels in London, Eccleston Square Hotel is a unique Grade II listed building with a long royal history. We delivered the BMS and EMS across the 39 bedrooms.

Key Solutions Included:

- AHU's
- Fan's
- Boiler's
- Heating Pump's
- Gas, Electrical and Water Meter's
- Cold Water Storage Tank's
- Underfloor Heating
- Calorifier's



Military & Defence



Oakey Army Base Toowoomba, QLD, Australia

Oakey Army Base is home to the largest aviation base in Australia, World War 2 airbase and storage depot for war aircraft. The redevelopment of the Oakey Army Base was to support the Army Rotary Wing flying training, including the armed reconnaissance helicopter & emergency response station.

The project involved the supply, installation, testing and commissioning of an Alerton BACtalk® building automation system to provide a base wide control and monitoring system.

Key solutions included:

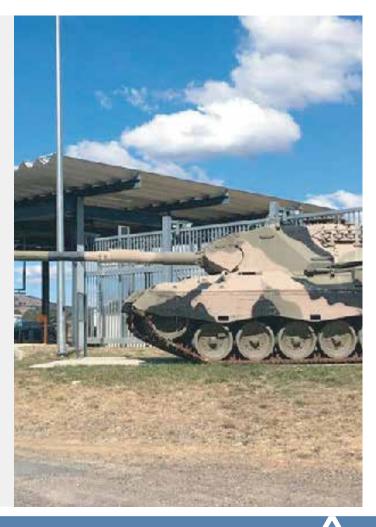
- Chilled water plant
- Boiler water plant
- Condenser water plant
- Exhaust systems
- VAV boxes

Headquarters Joint Operations Command Canberra, ACT, Australia

The Headquarters Joint Operations Command Centre is to be the new operational headquarters for the Australian Defence Forces.

The centre is a high technology facility where Australia's operational activities ranging from warfare operations, United Nations support, regional activities, disaster relief and other support activities will be planned and conducted. This multi-stage project involved engineering, supply, installation, testing and commissioning Alerton BACnet® BMS and EMS.

The provision of the Optergy Enterprise EMS was in line with the Command Centre's strategy to achieve a 5 Star ABGR and Green Star Rating for the facility.



Pharmaceutical

Ego Pharmaceuticals

Braeside West, VIC, Australia

We delivered the new installation of BMS and EMS for Ego Pharmaceuticals, a privately held Australian pharmaceutical multinational skin care company with subsidiaries all over the world.

Ego Pharmaceutical is extending its existing site in Braeside with new manufacturing filling area, drying room, hot room, packaging area, R&D training rooms and new offices.

Key solutions included:

- AHUs in training rooms/filling room/packaging areas and adjacent rooms
- FCUs/VAVs in office spaces
- Central plant control which includes chillers and boilers
- Ventilation which includes IBC fans/TEF/GEX
- EMS: Monitoring of electrical meters





10X Genomics

Singapore

10X Genomics is an American biotechnology company that designs and manufactures gene sequencing technology used in scientific research. They has established a presence in Singapore with Shanghai, which will allow the company to better serve the growing Asian market.

This project involves the BMS fitout for their new lab and office in Solaris @ Kallang 164.

Key solutions included:

- BMS for tenancy fitout including lab, clean room, warehouse and office space
- High level integration with make-up unit with heat recovery for pre-cooled fresh air control
- DDC control for all FCU and MV Fans
- · Lab and clean room monitoring and control

Data Centres



NBN

Melbourne, VIC, Australia

NBN Co's expansion required the upgrade of the existing National Operations and Test Facility (NOTF) to provide a new test equipment room on the ground floor.

This project required a very reliable and robust system to accommodate two critical facilities that had to be operational 24/7, 365 days a year. This mainly involved fit out and extension of the existing NBN communications facility.

Key solutions included:

- Fan coil units
- Exhaust/purge systems
- Outside air supply systems
- Computer room air conditioning (CRAC) units
- Leak detection
- Electrical monitoring
- Email alarms
- DDC panel power
- System maintenance
- Optergy Enterprise EMS

LinkedIn APAC Headquarters

Marina Bay, Singapore

A bespoke Environment Monitoring System was built and fit-out specifically to the needs of LinkedIn Data Centre, to monitor the server room and integrate it to the LinkedIn HQ. The system is connected to the LinkedIn global network which allows synchronisation of all LinkedIn buildings and offices around the world.

Key solutions included:

- Temperature & humidity monitoring station
- · Electrical system monitoring
- UPS monitoring
- Water leak detection
- Expansion fitout



