




**BMS FOR
NEW FACILITIES**

Elevate Your Performance





A Mitsubishi Electric Building Management System (BMS) enables granular visibility of operating conditions, coupled with automated and remote-control capability, optimising building performance in real-time for owners and facility managers.

Today's building management requirements have changed. The built environment must be durable, highly efficient, and people-centred. Technological advancements and Internet of Things (IoT) enabled devices make it possible to meet sustainability goals, reduce operating costs, improve occupant experience, boost productivity, and raise building performance and efficiency.

Building management solutions reduce energy consumption and costs by optimising the use of heating, ventilation, air conditioning, lighting, and other building systems. Improved comfort and safety with real-time monitoring and control ensure temperature, humidity, and indoor air quality levels are maintained at optimal levels for the comfort and safety of people and equipment.

Our BMS integration, operation and maintenance services provide building owners, managers and operators with powerful data insights into energy consumption trends, equipment performance, and employee and tenant behaviour, enabling improved decision making regarding current and future investment in systems.

THE MITSUBISHI ELECTRIC **DIFFERENCE**: A COLLABORATIVE, FULL-SERVICE SOLUTION

We work with architects, designers, builders and mechanical contractors on new build projects to ensure efficiency, sustainability and value is designed into each new facility.

At project commencement, our engineers collaborate with building owners, architects and designers to develop a deep understanding of facility operational requirements and functions and determine how the BMS can best support design objectives, facility operations, sustainability goals and key client drivers.

During installation and system integration our Project Managers and engineering teams work closely with onsite trade technicians and provide a central liaison point for the client through the whole process to handover. Following installation, we provide warranty servicing, and offer an ongoing comprehensive maintenance service.

We combine the expertise and full-service offering of a large BMS organisation, coupled with the agility and flexibility of smaller providers. Backed by the broader Mitsubishi Electric business, we bring exceptional technical capability and expertise and an approach that ensures adaptability, scalability and a future proofed BMS investment for our clients.

A MITSUBISHI ELECTRIC BMS SOLUTION WILL **DELIVER**:



Control

24/7 control and monitoring, with onsite and remote access capability



Visibility

Comprehensive and granular visibility of building performance via clear dashboard interfaces



Data

Trend data, performance analysis, proactive identification of issues and immediate alert of faults, supporting operational continuity



Compliance

Compliance with Australian Standards and critical controlled environment requirements



Scalability

Suited to any project, and scalable in line with operational requirements



Sustainability

Achievement of sustainable building standards, energy efficiency and comprehensive usage reporting



Value

Productivity and efficiency of operating costs, calibration to meet required conditions and eliminate waste in energy usage

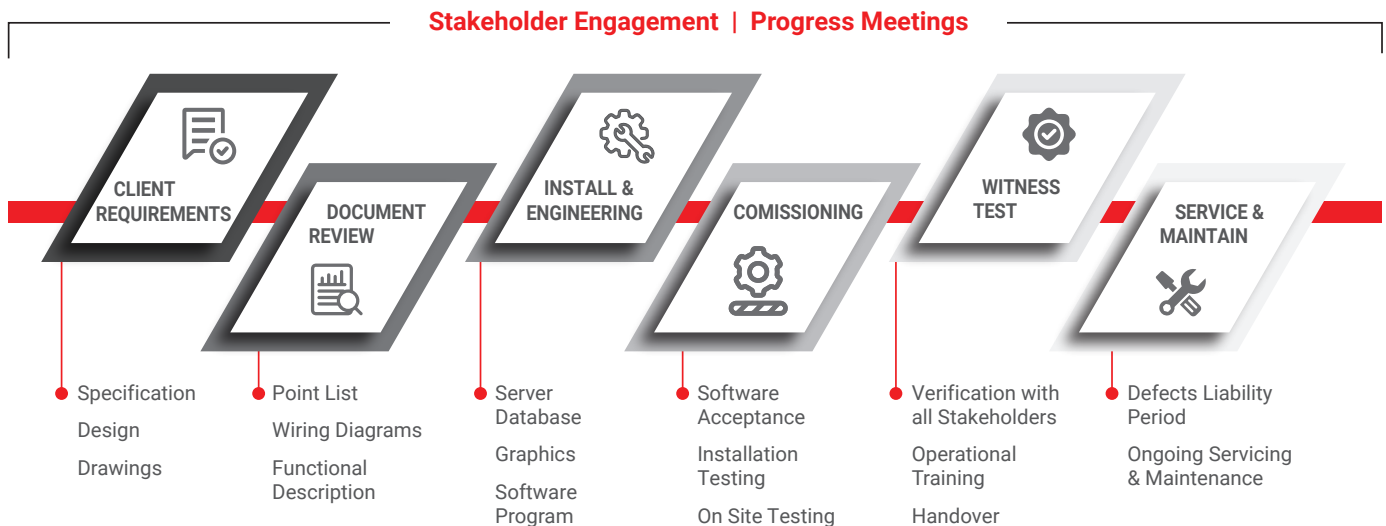


OUR BMS **SOLUTION**

Our BMS team works with you through each stage of the process. At project commencement, comprehensive preparation is key to a successful upgrade or replacement project. Our specialists source all existing documentation, determine current system components, examine maintenance histories and build an in-depth knowledge of occupants, building use and operational rhythms.

OUR PROCESS

Our BMS team works with you through each stage of the process. From Project Kick-Off to Handover, we collaborate to ensure you have a fit-for-purpose BMS system that meets your needs. Following project completion, we can continue to provide ongoing service and maintenance as necessary and appropriate for your facility.



OUR TECHNOLOGY

Leveraging existing leading technologies, we ensure our BMS solutions are interoperable, easy-to-use and future proofed for upgrade, expansion and refurbishment works.

We can help you implement the industry leading Niagara Framework®, a software technology designed to integrate diverse building systems and devices into one seamless system. The Niagara Framework® is an open-source platform that enables the effective integration of diverse technical systems, services and protocols. It provides a single point of visibility and control of the range of systems and data points that govern building functionality.



OUR PROJECTS

We have delivered BMS projects across a broad spectrum of industries including healthcare, retail, commercial buildings, education, government and station developments.

We assist our clients to protect their asset investment and ensure operational continuity with BMS solutions tailored to exacting requirements.

Recent projects include:

OZCARE, QLD



This Ozcare retirement community comprises a mixed residential living facility. The first five levels include common use areas and reception, levels 5 – 7 are dedicated to aged care, and levels 8 – 27 are build to rent and independent living apartments.

Scope

Our scope for the project included:

- » BMS fully integrated solution
- » Control of Mitsubishi Electric water-cooled VRF system and packaged units
- » Control of various ventilation fans and monitoring of carpark ventilation system
- » Heat rejection energy monitoring for common areas and main plant

Key metrics

The key project metrics include BMS fault notification for apartment indoor units, BMS control of common areas and aged care facilities, including scheduling and performance monitoring. Scheduling and temperature control is provided via the BMS for package units, along with heat rejection thermal energy monitoring.

HOWARD SMITH WHARVES, QLD



Howard Smith Wharves is a redevelopment project covering a 3.43 ha riverside location as part of an urban revitalisation project in the Brisbane CBD. Heritage buildings and structures were retained, and the transformation included restaurants, shops, community/event facilities and recreational areas.

Scope

Our scope for the project included:

- » BMS fully integrated solution
- » Monitoring of chilled water plant, air handling units, VRF air conditioning systems and car park ventilation
- » Thermal energy metering/logging for chilled water circuits to tenancies
- » Monitoring and control of Climaveneta chillers, air handling units, Mitsubishi Electric VRF air conditioning system and carpark ventilation

Key metrics

The key project metrics for Howard Smith Wharves included enabling visibility, reporting and remote control for fault-finding and performance monitoring of the system. Energy monitoring and reporting for tenant billing is also provided (chilled water system).

VICTORIAN AUTOMOTIVE CHAMBER OF COMMERCE, VIC



The VACC Headquarters in Melbourne is at the forefront of modern sustainable technology. This includes the incorporation of chilled beams which provide cooling and heating through induction and forced convection. A BMS was implemented to support the VACC's building and energy management objectives.

Scope

Our scope for the project included:

- » BMS fully integrated solution
- » Active chilled beams system throughout the building
- » Humidity control with high temperature chilled water
- » Monitoring of electrical meters, hydraulic equipment and lifts

Key metrics

The previous VACC headquarters was an old building with outdated technology. In this new facility, VACC required the ability to visualise and control heating and cooling to optimise building performance in line with energy management objectives.



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