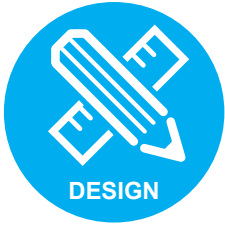


# LIFECYCLE MANAGEMENT

The brains behind your building and beyond



DESIGN



INSTALL



MAINTAIN



OPTIMISE



RENEW

Controlworks is a leader in building automation and energy management. Our solutions help companies maintain safe, productive and comfortable work environments both within the building and beyond – reducing operating costs, optimising system efficiency and maximising return on investment.

We are solutions-oriented, collaborative and flexible in our approach, which helps drive intelligent and fit-for-purpose outcomes and a seamless experience for asset owners, managers and occupants. Our experts provide customised solutions that replace or integrate with existing systems and harness the full potential of your built environments and external areas.

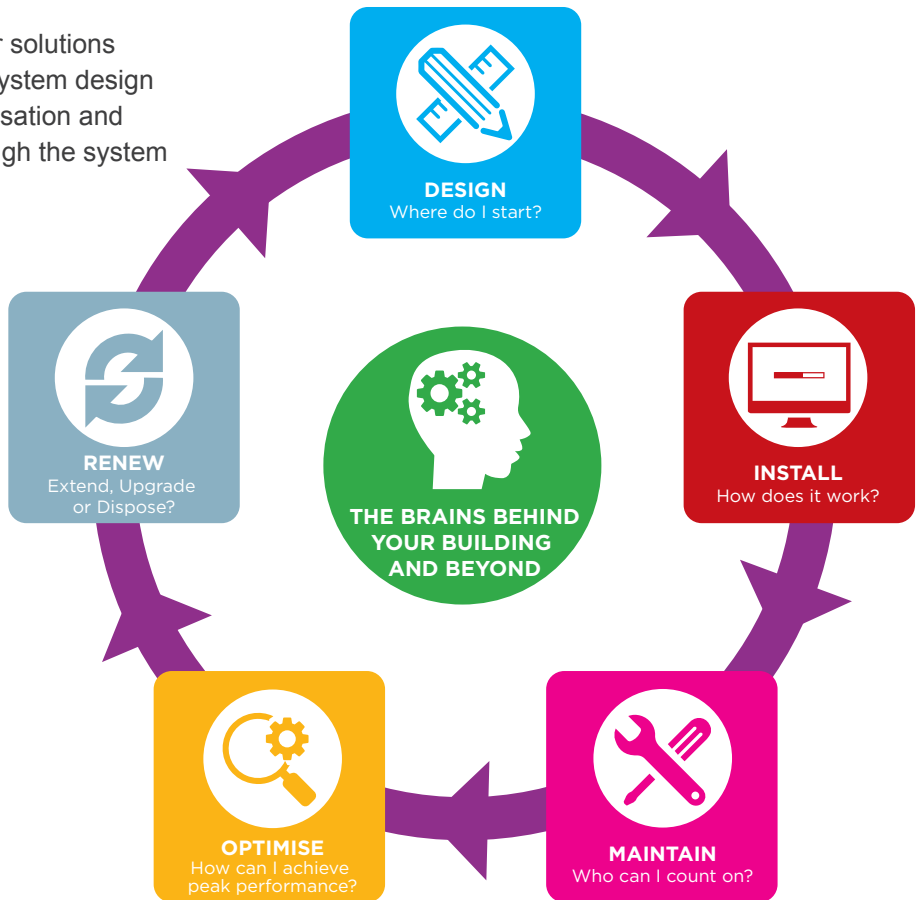
When it comes to building automation and energy management, Controlworks is the brains behind your building and beyond.

## COMPLETE SYSTEM LIFECYCLE SOLUTIONS

Controlworks is a full service provider and offer solutions across the spectrum of service delivery, from system design and installation through to maintenance, optimisation and renewal. Our ability to be forward-looking through the system lifecycle means our customers benefit from solutions designed to perform efficiently over the long term.

Our customers choose us to deliver and manage entire projects or seek recommendations on specific issues. No matter how you engage us, we'll be focussed on achieving your goals and will work hard to do this as efficiently as possible.

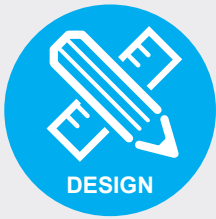
“ Our ability to look through the system lifecycle and beyond means our customers benefit from solutions that perform efficiently for as long as they are needed. ”



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We're experts at helping our customers define and design optimal solutions by harnessing interoperable technologies from world-leading building and IT systems providers. Our solutions are tailored to need, both within the building environment and beyond to external facilities and other infrastructure.

**PROJECT MANAGEMENT AND CONSULTING:** Ensure quality inputs safeguard system integrity and capability throughout the life-cycle.

**ENGINEERING DESIGN:** Design and specify custom-made solutions including BMS, room automation, air quality control, security systems and environmental management systems for carparks and other infrastructure.

**NABERS AND GREEN STAR ENABLEMENT:** Provide guidance on NABERS and Green Star compliance to help create energy efficient and sustainable buildings that improve return on investment.



We respond swiftly to install your solution; our flexible approach enables us to overcome problems if they are encountered. We'll provide the right induction, training and support to ensure your system is working optimally and you experience a pain-free transition to every-day use.

**INSTALLATION AND COMMISSIONING:** Ensure building operating systems – mechanical, electrical, lighting, HVAC – are designed, installed, tested and programmed for optimal performance.

**INTEGRATION SERVICES:** Provide customised solutions that replace or fully integrate with existing legacy systems to harness the full potential of a built and external environment.



We un-complicate system maintenance and ensure a seamless transition through your system's warranty period and beyond. From routine health checks and 24/7 service calls to comprehensive service agreements, our range of support options will ensure your system always meets the needs of your organisation, and the value of your building assets are retained over time.

**WARRANTY AND REPAIR:** Complement the manufacturer's warranty on products with our customised regular servicing of systems and devices, including seasonal tuning checks.

**PREDICTIVE MAINTENANCE:** Seamless transfer of professional services from service warranty periods and beyond, consisting of expert predictive, preventative and corrective service work to sustain building performance, extend the lifecycle of a system and reduce the incidence and cost of equipment failures and repairs.

**SUPPORT SERVICES:** Remote dial-in support and on-site attendance, 24 hours a day, 365 days a year. Comprehensive range of virtual monitoring, technical maintenance, energy efficiency and operational support services including upgrade notification and installation for hardware and software; database backup; software configuration and routine re-calibration; and SOS emergency repairs.

**DATA ANALYTICS:** Analyse data from multiple sources to profile and report on building performance, including ongoing systems to collate, normalise, validate and store data from a number of systems.

**REPORTING:** Provide tools to allow building managers and owners to quickly and easily create reports that analyse building performance, diagnose problems and monitor corrective actions.

**OUTSOURCED SERVICES:** Support as an extension of your staff through a range of flexible service agreements and maintenance mentoring programs.

**TRAINING SERVICES:** Provision of best-in-class certification or custom training solutions, tailored to staff and end-user requirements.



We continuously analyse, monitor and audit system performance to identify performance, management or technology gaps and recommend solutions to enhance comfort and productivity, achieve compliance ratings, reduce costs, optimise efficiency or improve building sustainability, whether the system is one we initially installed or not.

**ANALYTICS:** Collect, analyse, monitor and audit system performance and identify gaps to support business improvements and optimised asset outcomes.

**BUILDING SUSTAINABILITY ASSESSMENT:** Assist with NABERS ratings to improve environmental performance of a building and tenancy and improve return on investment.

**ENERGY EFFICIENCY MANAGEMENT:** Conduct energy audits, consult and assist in the implementation of energy efficient solutions and provide ongoing reviews that promote energy management best practices.

**SOFTWARE UPGRADES:** We're at the forefront of open protocol technology solutions and assist to identify technology gaps, and recommend the best suited upgrade and enhancements.

**ONGOING OPTIMISATION:** Continuous lifecycle process to monitor energy data and operational efficiency and put a building on a path of optimisation.

**RETRO-COMMISSIONING SERVICES:** Provision of retro-commissioning services that identify opportunities for cost savings and improved energy efficiency.



We help you plan and implement throughout your system lifecycle, striking the right balance between extending system performance and replacing aging assets. We'll be up-front and honest so you'll have the information you need for an informed decision that supports a sustainable outcome for your building and investment.

**ASSET MANAGEMENT AUDIT:** Review operating assets for efficiency and recommendations to maintain, upgrade or dispose of the asset.

**RECOMMISSIONING AND REFURBISHMENT:** Examine and clean building operating and maintenance systems, including fixing or replacing parts and system resets resulting in as-new operation.

**UPGRADES:** Bespoke design and enhancement for incumbent BMS systems to minimise capital expenditure, risk and downtime.

**END OF LIFE SERVICES:** Disposal and recycle management when equipment and systems reach their end of life.

**CONTACT THE BUILDING AUTOMATION AND ENERGY MANAGEMENT EXPERTS**

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