

Company Profile



MDA Consulting Engineers Pty Ltd

is a multi-discipline Building Services Engineering Consultancy, established in Queensland in 1989.

Our highly trained team have the capabilities to meet all project requirements in the following areas: Mechanical, Electrical, Specialist Lighting Design, URD, Fire, Hydraulic and Lift Services, Communication and Security Systems, Compliance and Reporting.

We also offer consulting services associated with new environmental requirements such as BCA Section J, Energy Star Rating and Green Star. We actively look at alternative options to enhance projects by incorporating advanced technologies to reduce their carbon footprint.

MDA Consulting Engineers has extensive experience with a broad spectrum of projects ranging from Health, Community, Education, Transport, Commercial, Retail, Residential Multi-Rise and Estates, Institutional to Industrial; locally, nationally and internationally.

QUALITY ASSURANCE

MDA Consulting Engineers is committed to providing the best quality engineering and consulting services. To ensure that we meet with the highest of standards our quality systems have been externally audited for compliance with ISO 9001 and AS/ NZS ISO 9001:2015 quality management system requirements.

DESIGN STRATEGY

We are commercially aware of the implications of our designs, many of which have stood detailed value analysis scrutiny. A consistent objective is to provide flexible and adaptable services with minimum initial cost penalty to the development.

VALUE MANAGEMENT

At various stages of the design process, value management reviews and analysis will be carried out to ensure all facets of the services systems meet or surpass industry benchmarks established for the project in terms of:

- Acquisition costs
- Operating costs
- Maintenance costs
- Appropriate use of current technology with emphasis on future technology integration
- Sustainability Goals
- Impact on existing systems and infrastructure

ACCREDITATIONS

MDA Consulting Engineers have the following accreditations:

- 5 Chartered Professional Engineers NER
- 5 Registered Professional Engineers Queensland RPEQ
- Members of IES Illuminating Engineering Society
- Third party Quality Assurance Consulting Engineering Company to AS/NZS ISO 9001:2015
- Pre-qualified supplier for Local Buy's Engineering Consultancy Services contract (BUS 226-0212)
- Energex approved A Rated URD Consultant
- Ergon Energy approved URD Consultant
- Essential Energy approved URD Consultant
- NBN Co Approved Design Consultant
- BSA Hydraulic Services Design License
- BSA Sprinkler Services Design License
- NSW Accredited Certifier Categories C8 Electrical, C9 Mechanical, C14 Hydraulic
- NSW Department of Fair Trade Accredited Level 3 Service Provider Categories Overhead & Underground Power
- QBuild Vendor No. 854205
- QBCC Hydraulic Services Builder Designer Licence
- Victoria Building Commission Registered
- Tasmanian Accredited Building Practitioner
- Northern Territory Power & Water Accredited Level 3
- Northern Territory Registered Building Practitioner (Mechanical & Hydraulic)
- Green Star Accredited Professionals
- NABERS Accredited Assessors



ECOLOGICALLY SUSTAINABLE DEVELOPMENT (ESD)

With environmental sustainability being a requirement for all new projects, MDA provides engineering solutions and options to encompass sustainable principles. This will encompass current BCA Section J Compliance requirements and, where required, provide accredited Green Star solutions to both Building Services and Building Fabric selections and implementation.

ENERGY EFFICIENCY

With emission control protocols and building compliance requirements becoming ever more stringent, MDA Consulting Engineers have adopted a holistic approach to Engineering Services where the solutions consider the environmental footprint in terms of embodied energy, energy efficiency and product recycling. In the selection of appropriate technology, coupled with efficient design principles, MDA's approach will ensure the minimum energy consumption and lowest levels of Carbon Dioxide.

BUILDING CODE AUSTRALIA ENERGY EFFICIENCY COMPLIANCE

MDA Consulting Engineers provide a full BCA section J Energy Efficiency Review and Certification under the deemed to satisfy provisions of the BCA.

ALTERNATIVE ENERGY SOLUTIONS

Alternative energy solutions will contribute an ever increasing share of the world's Energy supply. MDA Consulting Engineers are actively looking at alternative options that enhance projects by reducing their carbon footprint by incorporating alternative technologies. The use of such technologies has now become essential when energy offsets are required to reach a level of Green Star Rating of 4 to 6 Stars. To discover more about the Green Star Rating - [click here](#). MDA's approach to Alternative Energy Solutions is to actively consider alternative and supplementation system technologies such as Solar, Photo Voltaic, Geothermal, Bio Gas, and Wind Power.

GREEN BUILDING COUNCIL AUSTRALIA (ABGR) STAR RATING

We are accredited Green Star Professionals with comprehensive understanding of all category rating systems and rating tools, plus experience with integrating Green Star requirements into engineering designs. Achieving ABGR substantiation and approval by substantive documentation to demonstrate the achievement of the ABGR compliance targets. Green Star Accredited Professional services are also provided to value add to Engineering disciplines, complimenting the range of Engineering Services provided by integrating the ABGR requirements with the design team.

COMMERCIAL BUILDING DISCLOSURE (CBD)

CBD is a national program designed to improve the energy efficiency of Australia's large office buildings.

Sellers and lessors with office space of 1,000 square metres or more are required to obtain and disclose an up-to-date energy efficiency rating. Full Building Energy Efficiency Certificates (BEEC) are valid for 12 months and must be publicly accessible online at the Building Energy Efficiency Register.

The NABERS Energy star rating must also be included in any advertisement for the sale, lease or sublease of the office space.

The CBD program was developed by the Australian, state and territory governments to encourage building energy efficiency. The program is managed by the Australian Government Department of Climate Change and Energy Efficiency.

MDA Consulting Engineers are fully accredited assessors.



MECHANICAL

Our high quality mechanical services deliver reliable results for air conditioning and ventilation (HVAC), medical gas systems, dilapidation reporting and air quality assessments.

Combined with our strict environmental policies we are sure to exceed your expectations with our proposed solutions for various mechanical systems, which include:

- Ventilation systems
- Exhaust systems
- Specialist exhaust for commercial applications
- Thermal modelling
- Chilled water
- Condenser water
- DX Systems
- Waste heat recovery
- Geothermal
- Specialist medical gasses
- Compressed air
- Vacuum systems

ELECTRICAL

MDA supplies an extensive collection of electrical services. We aspire to combine aesthetics with functionality, capturing the perfect balance in both corporate and residential applications.

Our electrical engineering services include specialist Lighting, security systems, audio visual, communications systems, and URD (electrical underground reticulated distribution) to name a few.

We specialise in the following areas also:

- High voltage networks
- Substations
- Switchboards and control centres
- Prime and standby power generation
- Power factor correction
- Uninterruptible power supply (UPS)
- Interior and exterior lighting
- Programmable logic controls
- Cable management systems
- Lightning protection
- Technical earthing
- Electro-medical treatment installations
- SCADA systems
- Master antenna television aerial systems
- Soft wiring systems
- Retail electricity procurement

HYDRAULICS

As multi-level buildings become increasingly popular we have increased our range of solutions to meet the higher and broader demand. There are strict regulations in place for the proposal of all hydraulic requirements as per both Australian Standards and local council. We ensure all requirements are met on a technical, practical and environmental level.

Most developments require waste water, water systems and drainage as a bare minimum. Our environmental policies also aid in making our projects compliant in multiple areas.

MDA Engineers supply infrastructure engineering design for storm water, water supply and sewer systems. Some of our other services include:

- Environment Waste Water
- Domestic and commercial systems
- Solar hot water systems
- Potable water systems
- Grey Water/Water Recycling and Reclamation Systems
- System audit and maintenance programs
- Environmentally Conscious and Energy Efficient Water Supply Systems
- Water Treatment and Conditioning
- Vacuum Drainage Systems

BUILDING AUTOMATION SYSTEMS

Building automation and control systems are fast becoming an essential part of life. MDA offer a collection of solutions which are budget friendly and focus on energy efficient practicality. These services include:

- Energy monitoring
- System control
- Load control
- Energy load shedding
- Service and maintenance
- Lifts and escalators
- Lighting systems
- Security systems and access control
- Telecommunication systems
- Emergency services
- Air conditioning, heating and ventilation
- Hydraulic services
- Utility management
- Automated window coverings
- Surge protection & electrical
- And much more

URD (UNDERGROUND RETICULATED DISTRIBUTION)

We are accredited Electrical URD Consulting Engineers for Ergon, Energex and all NSW supply authorities and specialise in urban residential developments. Our range of URD services include:

- Streetlighting – Major Road and Minor Road lighting
- High voltage overhead and underground distribution (11kv, 22kv and 33kv)
- Low voltage distribution including strata title, community title and private reticulation
- Sub-transmission overhead and underground (66kv, 110kv and 132kv)



SPECIALIST LIGHTING

Our lighting solutions are cutting edge, setting the perfect ambience to best suit your specific project. Sufficient lighting is an essential element to any project and we have the experience and products to support all aspects of design and implementation.

We work closely with our clients to fully understand their desired results and then combine our environmental strategies (along with any council requirements) to present the perfect solution. MDA can also implement integrated systems using sophisticated technology and software. Application:

- Energy compliance
- Sports lighting
- General commercial, industrial and residential
- Decorative
- Theatrical
- Landscape
- Roadway & Urban
- Lighting controls

FIRE PROTECTION

Our fire protection engineers are committed to developing the most functional and economical strategy specifically suited to your fire risk needs. We work hand in hand with our clients to ensure all aspects are covered, thus ensuring human safety is maintained at all times.

We supply a range of services from design and documentation to full fire systems. These include:

- Fire hydrant and hose reels
- Fire sprinklers
- Detection and alarm systems
- VESDA™ type detection systems
- Emergency Warning & Intercommunication
- Portable fire extinguishers
- Gaseous and foam fire suppression
- Resistance of structures exposed to fire
- Emergency lighting and exit Signage

COMMERCIAL BUILDING DISCLOSURE

Commercial Building Disclosure (CBD) is a national program designed to improve the energy efficiency of Australia's large office buildings.

Under the program, from 1 November 2010 most sellers or lessors of office space of 1,000 square metres or more will be required to obtain and disclose an up-to-date energy efficiency rating.

A full Building Energy Efficiency Certificate (BEEC) will need to be disclosed. BEECs are valid for 12 months, must be publicly accessible on the online Building Energy Efficiency Register, and include:

- a NABERS Energy star rating for the building
- an assessment of tenancy lighting in the area of the building that is being sold or leased and
- general energy efficiency guidance

The NABERS Energy star rating (exclusive of [GreenPower](#)) must also be included in any advertisement for the sale, lease or sublease of the office space.

The CBD program has been developed by the Australian state and territory governments, as part of a broad package of measures to encourage building energy efficiency. The program is managed by the Australian Government. MDA Consulting Engineers has fully accredited assessors. Contact us for further details.

COMPLIANCE AND REPORTS

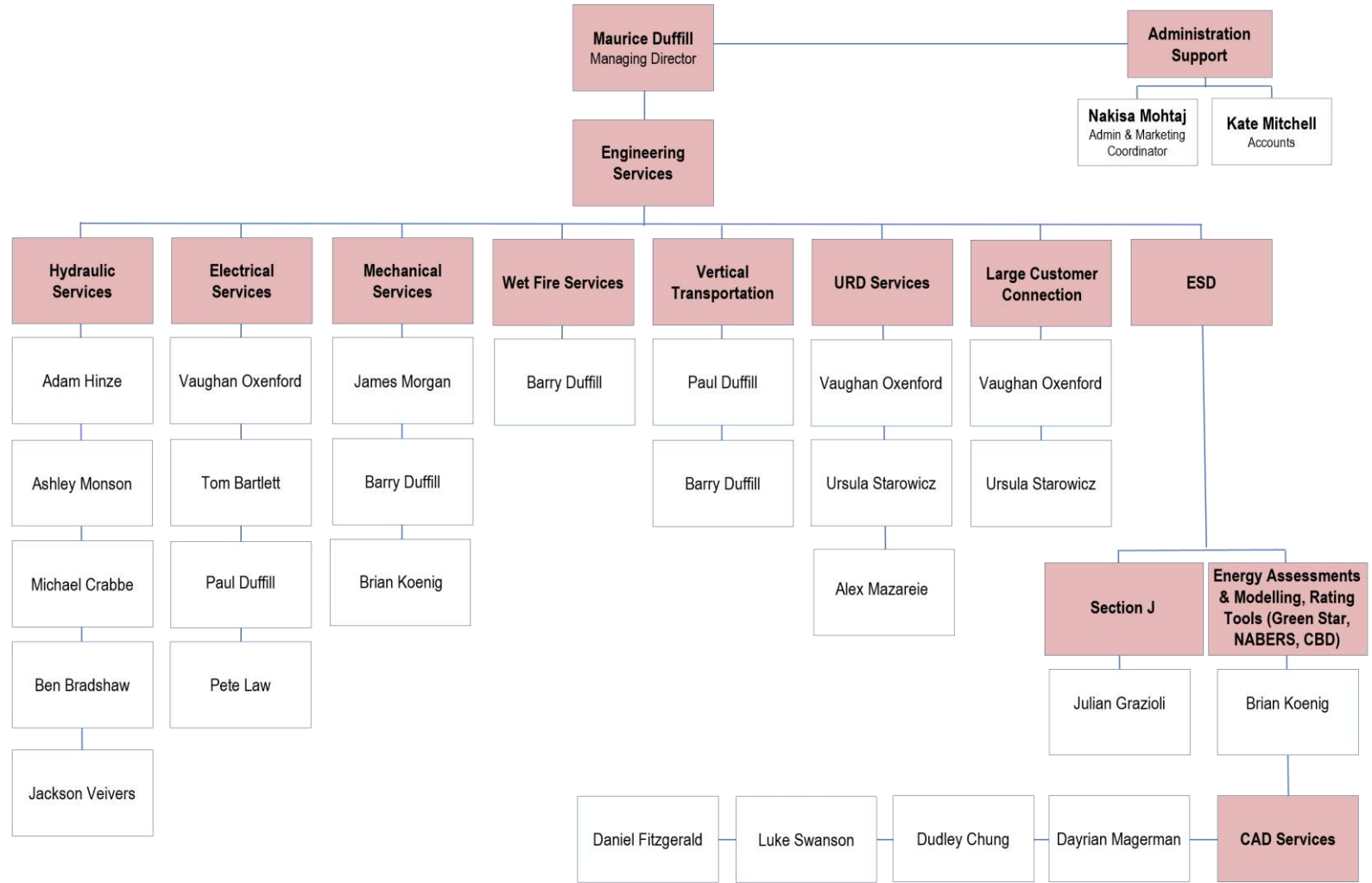
Our specialist team can supply full due diligence reports for the following areas:

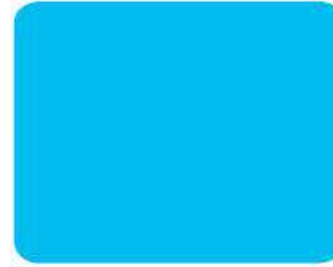
- Fire hydrant and hose reels
- Residential and commercial fire sprinklers
- Fire detection and alarm systems
- VESDA™ type detection systems
- Emergency Warning & Intercommunication
- Portable fire extinguishers
- Gaseous and foam fire suppression
- Fire and smoke compartmentation
- Resistance of structures exposed to fire
- Access and egress
- Emergency lighting and exit signage
- Mechanical smoke hazard management

SECURITY

We understand that security is of the utmost importance and can help design the optimal solution for maximum protection. We analyse and evaluate your project and customize a suitable solution. Services include:

- Security video systems
- Security planning & development
- Risk assessment
- Intruder alarm/detection
- Remote monitoring
- Duress alarms
- Access control





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