

## ENERGY EFFICIENCY

With more emphasis on emission regulations and sustainable building compliance requirements in the building sector, MDA Consulting Engineers have adopted a holistic approach to Engineering Services with solutions focused on the environmental footprint of embodied energy, energy efficiency and product life cycle.

In the selection of appropriate technology coupled with efficient sustainable design principles, MDA's design approach ensures minimum energy consumption with minimum levels of CO2 emissions.

## GREEN BUILDING COUNCIL OF AUSTRALIA (GBCA) & NABERS RATING

MDA Consulting Engineers have accredited Green Star Professionals with in depth knowledge and practical experience in incorporating Green Star ratings in projects of any size for successful Green Star outcomes.

Green Star Accredited Professionals also provide Value Add Engineering to compliment any project seeking sustainable initiatives and measures.

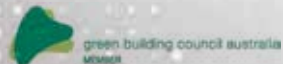
MDA Consulting Engineers can also assist in the assessment of energy, water and waste consumption of existing buildings with experienced NABERS Accredited Assessors and provide ratings for Hotels and Offices Base building, Office Tenancy and Whole Building NABERS ratings.

## ECOLOGICALLY SUSTAINABLE DEVELOPMENT (ESD)

With sustainability being an integral part of many new projects, ESD Engineers at MDA Consulting Engineers can tailor any project to achieve engineering solutions keeping financial costs in mind.

Our ESD Engineers can also provide BCA compliance in Energy Efficiency, Building Fabric, Glazing, Building Sealing, Air-Conditioning and Ventilation Systems, Artificial Lighting and Power, Hot Water Supply and Access for Maintenance and Facilities for Monitoring.

Furthermore, our ESD Engineers are also experienced in Renewable Energy Technology Modelling and can provide renewable resource design solutions appropriate to any project.



## PROJECT TYPES

MDA provide a variety of Consulting and Engineering Services which include but are not limited to the following developments:

- Commercial Offices
- Electrical Infrastructure
- Hospitals & Nursing Homes
- Industrial & Warehouses
- Governments & Institutions
- Residential & Commercial Sub-Divisions
- Street Lighting
- Residential Homes
- Residential Multi-Rise
- Resorts
- Retail
- Education, Schools & Universities
- Tenancy Fitouts
- Condition & Assessment Reports

## CONTACT

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**MDA**  
**CONSULTING ENGINEERS**

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## 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 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



## 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.

These 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



## URD (UNDERGROUND RETICULATED DISTRIBUTION)

We are accredited Electrical URD Consulting Engineers for Ergon, Energex and Level 3 Accredited Services Provider (ASP) with NSW Department of Trade and Investment. We specialise in Residential and Commercial Development. Our range of URD services include:

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

## 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

## MINING & NATURAL RESOURCE INFRASTRUCTURE

MDA Consulting Engineers' highly qualified staff combined with the latest technology, allows us to offer practical solutions to the Mining industry. We supply integrated engineering solutions for all facets including areas such as infrastructure assessments and augmentation for new and existing sites, providing system solutions for existing sites, capacity assessments, condition reports and recommendations, as well as Consulting & Engineering Design Services for a wide range of specialist disciplines to suit all Services Engineering needs.

At MDA, our teams work across the project life cycle providing:

- Site evaluation reports
- Infrastructure design
- Specialist communications & security needs
- Communications & Telemetry
- Specialist compressed air & gas reticulation
- Water treatment
- Fuel Farm
- Site power generation
- Solar Power
- Mechanical Services
- Electrical Services
- Fire Protection services
- Hydraulic services
- Automation Systems

## 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 design for storm water, water supply and sewer systems.

Some of our other services include:

- Domestic, Commercial and Industrial Systems
- Cold, Hot, Warm, Rain, Non-Potable water Systems
- Circulating Hot water systems
- Solar Hot Water Systems
- Grey Water/Water Recycling & Reclamation Systems
- Sanitary Plumbing & Drainage
- Vacuum Drainage Systems
- Trade Waste Drainage & Pre-treatment
- Effluent Treatment & Disposal
- Fire Hydrant Services
- Fire Hose Reel Services
- Natural Gas Systems
- LPG Systems
- Conventional Roofwater Drainage
- Syphonic Roofwater Drainage
- Site Stormwater Drainage
- Stormwater Quality Management Plans
- Integrated Water Management Plans
- Water Conservation Schemes
- Sediment & Erosion Control Plans
- MUSIC Modeling
- Onsite Soil Testing & Evaluations
- System Audit & Maintenance Programs

## 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
- 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 & exit signage
- Mechanical smoke hazard management