



MODA
ENGINEERING PTY LTD

TECHNOLOGY AND CYBER SECURITY | CONTROL SYSTEMS | ELECTRICAL SOLUTIONS | COMMUNICATIONS | OPERATIONAL

CAPABILITY STATEMENT

Proudly Western Australian, MODA Engineering is an Electrical Design and Construct specialist (Electrical Contractor's License EC013937) capable of delivering services in Electrical Engineering, Control Systems, Communications, and Operational Technology (Industrial IT and Cyber Security) to both local and international markets.

Our **forward thinking**, and **highly experienced** team **engineer**, **manufacture**, **implement** and **optimise** our projects in-house to the highest level of quality and compliance.

WHO WE ARE

We are customer focused.

We **listen to your ideas**, and we and leverage our technology know-how to tailor our solutions to your specific needs.

Our core values are based on **service and satisfaction**. When you deal with MODA Engineering, you are guaranteed to receive **personal service**, **unbiased advice**, and a **delivery outcome which exceeds expectations**.

INDUSTRIES SERVED

MODA provides high-quality support in all part of the asset lifecycle in the following industries regardless of the size, location, and complexity of the scope.



Power Generation



Mining & Resources



Oil & Gas (onshore and offshore including FPSOs)



Renewable Energy



Hydrogen Processing Plants

POLICIES

- We are committed to the protection of the **Health, Safety** and **Environments** of all personnel, contractors, customers and the communities associated with our operations.
- **Customer satisfaction** is the cornerstone of every project that we undertake and as such **we approach every project with 100% commitment** and our promise to deliver the highest quality product while taking ownership of the process along the way.
- **Inclusion** and **diversity** are fundamental to our company's ethos and core values. We are committed to creating an inclusive and diverse workforce where our people can feel comfortable bringing their whole self to work, and therefore be their best.
- We acknowledge that many Indigenous people experience conditions of social and economic inequity within Australia and therefor **strive for collaboration and partnership with indigenous communities** as well as companies that support indigenous communities around Australia.

CORE COMPETENCIES

ELECTRICAL DESIGN

We have experience and expertise in Electrical Engineering, Design and Project Management of small to large projects including:

- **Power studies utilising Power Factory and ETAP including:**
 - » Protection Schemes
 - » Fault Level Studies
 - » Arc Flash calculation
 - » Coordination study
 - » Power Quality/Harmonic Studies and Mitigation
 - » Earthing studies
- **HV Supply, Reticulation and Protection to 33kV including IEC 61850**
- **HV/MV/LV Substations, Equipment and Systems**
- **MV/LV Distribution and Motor Control Centres**
- **CPEng/RE PQ and design certification**
- **Essential Services including Generator, UPS and Failover Systems**
- **General Light and Power**
- **Constructions Works Supervision and Coordination with**
 - » Design Personnel from other disciplines
 - » Site Personnel and Contractors
 - » Supply Authorities and Regulatory Bodies
- **Hazardous Area Dossier and Verification**
- **Solar design and installation – CEC certified**
- **Instrumentation Design**
- **Compliance Audit**

PROCESS CONTROL SYSTEMS

Our Engineering Team has successfully delivered multiple projects across the globe in mining and utilities offering expertise in areas of Process Control System. Our team is capable of delivering projects in the following areas:

- System Architecture
- PLC / DCS Programming
- SCADA/HMI Configuration
- Control System Audits
- Optimisation through Process Control
- Alarm Rationalisation & Management

OPERATIONAL TECHNOLOGY & CYBER SECURITY

Our in-house expertise includes in-depth knowledge of IEC-62443 and NIST 800-02 industrial cyber security standards and their practical application. We have extensive in-house experience with:

- Cyber security audits
- Risk assessments
- Security hardening of OT systems
- Management of OT vendors
- Development of OT management programs; and
- Implementation of remedial measures to minimise and the risk of cyber-attack



CONSTRUCTION & COMMISSIONING SERVICES

- **Electrical Contractor's Licence - EC13937**
- **Clean Energy Council Certification**

MODA's team are familiar with the demands of on-site engineering, construction and construction support and commissioning. Swift, pragmatic problem solving with safety at the forefront of our minds ensures both safe and efficient commissioning outcomes. We have successfully delivered construction project including installation of solar systems for tier one companies such as Water Corporation and are also experienced in the use of multiple Permit to Work (PTW) systems, understanding the need for 100% compliance.

PLANT AUDITS & OPTIMISATION

MODA Engineering offers its clients Electrical, Instrumentation, and Control system auditing services.

Once an audit has taken place, we will work with you to optimise the performance of your process with the aim of minimising your capital outlay.

A cost benefit analysis can be presented for safety, risk mitigation and enhanced performance (maximise availability and throughput) of the plant.

TRAINING & TECHNICAL SUPPORT

MODA offers complete system training to its clients, Operators and Technical Personnel who will be involved in the operation and maintenance of any delivered system and its components.

MODA is able to provide 24/7 technical support if you require it.

STRUCTURAL, MECHANICAL & PIPING DESIGN

MODA Engineering is capable of delivering SMP Engineering services with access to the resources and skills required to execute a wide range of both brownfield and greenfield projects.

MANAGEMENT

At MODA, we have experienced Project, Engineering and Construction Management as well as Operational Technology professionals who have developed field experience, gained academic qualifications and are certified by industry recognized organisations.

FEASABILITY & CONCEPT STUDIES

We have the capability and proven experience to assist with any feasibility and / or concept studies. Our team is also capable of delivering design optimisation under EPCM and EPC models.

SANTOS

Provided electrical design and implementation of Power System Upgrade at Varanus Island.

BHP

Been engaged on delivery of multiple BHP projects in the recent years including Yandi OHP2 WTP, South Flank WTP, Yandi WTP HV study and HV submission. Our company is well familiar with Engineering and Drafting Standards and Requirements of BHP.

RIO TINTO

Delivered design and construction supervision for MESA A and MESA J expansion projects through subcontractors such as UGL and CIVMEC.

WATER CORPORATION

Been involved in design and construction of multiple projects for Water Corporation including Solar projects and multiple WTP upgrades.

CATALYST METALS

Been involved in ongoing site wide improvement projects for the Plutonic Gold Project in WA. including Electrical design support for the Gas Fired Engine and required switchgear and the Control System Improvement project.

COVALENT LITHIUM - LITHIUM PROJECT

Providing peer review advice to Covalent Lithium on various aspects of the design including the Electrical and Control System aspect of Process Plant Design as well as advice and project management to the renewable energy and Western Power Connection and substation upgrade.

RECENT PROJECTS

TRILITY

Contracted by Hydramet to provide engineering design and drafting for various Water Treatment Plant Projects including BHP's South Flank Iron Ore Project as well as multiple Water Corporation Projects.

MSP ENGINEERING

Provided the workforce for Site Engineering and Commissioning of Greenbushes Lithium Project and various upgrades.

EVOLUTION MINING

Engaged to act as the Client's representative, overlooking the design and commissioning of the EPC contract for Lake Cowal Gold Project expansion. MODA is also involved in various other expansion projects at Lake Cowal.

RECENT PROJECTS

FORTESCUE

Engaged as the primary contractor to provide electrical engineering, system modeling, geotechnical investigations for the high-voltage powerline design and distribution upgrade at Christmas Creek.

ALTURA LITHIUM OPERATION

Provided complete EI&C design for Altura Lithium Operation's Pilgangoora Lithium Project. We have been deeply involved in the design and implementation of all aspects of Electrical, Instrumentation and Control System of the project including Construction support and Commissioning.

NORTHERN MINERALS

Engaged to act as the Client's representative overlooking the EPC contract with Sino Steel China to develop Browns Range Rare Earth Project in Western Australia. We also have an ongoing involvement with the Browns Range project including various optimisations and improvements.



MODA
ENGINEERING PTY LTD



Suite 1, Level 1, 172 St Georges Terrace,
Perth WA 6000



admin@modaengineering.com.au



www.modaengineering.com.au

ABN

41 168 106 545