



**Capability Statement**  
**Engineering Services**



## About Us

MARTEQ ENERGY is an Aboriginal Indigenous Australian Company, global presence company with its offices with local presence in Newman, Perth Western Australia, procurement office in Singapore and design house in India.

MARTEQ ENERGY is a leading Project Delivery, Finite Element Analysis (FEA), FEA Simulations, Structural Design, Civil, Mechanical, Electrical Design, Customs products design, third-party certifications, CFD DEM, Project Management & Engineering Consultancy, Supply Chain, Fabrication, repair life extension, decommissioning, Management Consultancy services with maintenance & on-site support, statutory inspections fire system pressure vessel and asset integrity inspections for oil & gas and mining industry

Our technical and project team experts in the Process, Civil, Structural, Mechanical, Piping, Electrical, Instrument and Control Systems, Oil and gas & Environmental Engineering disciplines. We also leverage the latest in engineering design software, 3D modelling and BIM systems to improve efficiency and provide you with greater value

- Engineering Design
- Drafting Services
- Statutory inspections fire system pressure vessel and asset integrity inspections
- CMMS Planning and PM Optimization
- Decommissioning for Offshore Units
- Risk Based Inspection Services
- Asset Integrity Management
- Packages - Mechanical, electrical, and Instrumentation
- Onsite Commissioning support
- Supply chain and distribution

## Our Services



Project Engineering Management



Design Engineering Management



Supply Chain & Distribution



Ship buildings & Ship Repairs



Engineering Management



Risk based / ATEX Inspection Services



CMMS Planning & PM Optimization



Statutory inspections / 3<sup>rd</sup> Party Inspections



NDT / Rope Access Inspection Services



Offshore Maintenance / Freelance Manpower

## Project Engineering Services

MARTEQ ENERGY are experienced in all stages of project delivery from conceptual Project Engineering, 3<sup>rd</sup> Party Inspections, design and drafting through to site installation and commissioning of a range of plant and equipment.

Our project delivery capabilities and experience include:

- Project management
- Cost estimating
- Project scheduling & tracking
- Supply and construction scope documents
- Tender evaluation & Tender packages
- Construction technical support, on & off site
- Fabrication, supply and installation
- Site construction
- Quality Assurance
- Commissioning & handover

MARTEQ wide-ranging site construction and commissioning experience includes material handling facilities, custom plant and equipment solutions and processing circuits.

## Design Engineering Services

MARTEQ ENERGY has a great team of experienced and talented designers, drafters, engineers and managers.

We have a track record of delivering drawings to a range of client and industry specifications with a focus on 'right first time'. By focusing on understanding the project's requirements we provide fit-for-purpose designs. We constantly focus on quality and change management to improve on delivery and budget.

We take an integrated approach across drafting and delivery. When updating as-built drawings / incorporating site mark-ups, we work with clients to identify potential learnings associated with the changes to deliver maximum value.

- Solid Edge 3D Modelling
- MicroStation V8
- AutoCAD
- Product Data Management
- Smap3d (Isometric and PI&D's)
- Microstation including CAD Conform
- Creo

## Consultancy Services

We provide various engineering consultancy services to help clients maximize asset performance:

- Reliability Availability & Maintainability (RAM) modelling to simulate equipment operation and maintenance over an asset's lifecycle.
- FMEA/FMECA analysis and implementation to identify potential failures and aid in risk mitigation strategies.
- Risk Based Inspection (RBI): developing and optimising RBI programs with strong experience in pressure equipment, tanks and structures.
- Equipment Criticality Analysis and Safety Critical Element (SCE) identification to assign correct maintenance and performance assurance tasks
- Safety Integrity Level (SIL) studies and implementation including Certified Functional Safety Engineers who can conduct SIL studies and assess Safety Instrumented Systems (SIS).

## CMMS & Master Data

MARTEQ ENERGY For any facility, it is important to set up either a Computerised Maintenance Management System (CMMS) or Enterprise Resource Planning (ERP) framework correctly. Implementing a CMMS or ERP in an existing operation will significantly improve maintenance standards.

Master Data consists of critical business information that supports the transactional and analytical operations of an enterprise. Master Data Management (MDM) consolidates, cleans and augments the corporate Master Data and synchronises it with other applications, business processes, and analytical tools.

Marte Energy has a team of highly competent Engineers, Data Scientists and Master Data Specialists dedicated to working with clients to improve their CMMS, ERP and Master Data Standards. We have supported various clients in optimising their maintenance regimes by providing end-to-end solutions

## Fabrication and Installation Services

Well trained engineers and technicians are dedicated to provide professional methods for Construction, Mechanical completion, Inspection, testing, Loop checking, pre-commissioning and dynamic commissioning of systems for various projects such as FPSO/FPDSO/FSO's, FPU's, Drill Ships, Jack-up Rigs, and Semi-Submersible Rigs etc.

We are engaged into installation & maintenance of Piping, Mechanical, and Structural, HVAC and Electrical systems for Oil & Gas, Mining and marine services. We provide periodic maintenance and new installation according to the specifications and standards.

We have well trained engineers and technicians to meet the requirement of the clients

## Freelance Manpower Supply Services

### QA/QC Services / Third Party Inspection Services

- QA /QC Manager | Engineer | Inspectors | Technicians
- Welding Engineers | Welding Inspectors NDT Engineers / Inspectors / Supervisors
- Piping Engineers / Inspectors
- Structural Engineers / Inspectors
- Mechanical Engineers / Inspectors
- E & I Engineers / Inspectors ( ATEX & Compex Inspectors )
- Painting & Coating Engineers / Inspectors
- Insulation & Fire Proof Inspector ( ICorr Level 2)
- Civil Engineers / Inspectors
- HVAC Engineers / Inspectors

### Mechanical Commissioning Services

- Mechanical Manager / Lead
- Mechanical Engineer
- Mechanical Supervisor
- Mechanical Tech / Senior Technician

## NDT Inspection Services

We have trained and certified technicians to international standards, who use conventional and advanced techniques for all types of NDT methods, according to customer needs and project requirements.

### NDT and Advanced NDT Inspection Services

- Eddy Current Inspection (ET / ECT)
- Ultrasonic Testing (UT) / Ultrasonic Flaw Detection
- Hardness Testing (HT)
- Leak Testing (LT)
- Magnetic Particle Testing (MT / MPI)
- Tank Inspection
- Positive Material Identification (PMI)
- Radiography Testing (GAMMA / X -RAY)
- Ultrasonic Thickness Measurement
- Visual Testing / Visual Inspection (VT / VI)

### Electrical & Instrumentation Commissioning Services

- E&I Lead
- E&I Engineer
- E&I Supervisor
- E&I Tech / Senior Technician

### Other Technical Manpower Supply

- CAD Designer
- HSE Supervisor
- HVAC Technician
- Pipe Fitters/Structural Fitters/Welders
- Scaffolders/MC Coordinators/Painters
- Rigger/Fire watchman/General worker

## Offshore / Onshore Operations & Maintenance

Marteq Energy Operations & Maintenance business unit supports major oil & gas operators by offering O&M solutions adapted to the industry international standards. Our company provides scalable, integrated operations & maintenance (“O&M”) resources and services during a facility’s lifecycle in virtually any location around the world, including established oil & gas fields or newly developed remote areas. Integrated O&M global solutions includes as well training services for local staff, through specific program and also involves turnkey operations model for optimal flexibility.

With a database of 85,000 profiles with various skills, experiences and nationalities, we are able to source and to provide the right candidate to suit Clients’ and End-users’ needs and requirements.

Once the expert consultant has been selected, Marte q manages the whole individual logistics, from home to Client’s premises, including shifts, administrative requirements, salary, taxes and insurance.

## 3rd Party Inspection Services

We perform third party verification services on a number of assets, and we have done so for decades. Third party verification is crucial in order to reduce risk and improve quality during design, fabrication, installation and follow-up, as well as reducing the number of modifications and repairs.

Our Third Party Verification and Inspections Services area Includes:

- Pipe/Fittings
- Boilers / Pressure Vessels
- Fire system 1851 – 2012
- Rotating Equipment
- Painting Inspection
- Offshore Equipment / Crane Inspection
- Ex-Inspection / ATEX
- NDT Inspection
- Welding Inspection
- Subsea Equipment
- Valves Inspection
- Structural & Equipment
- FAT Inspection
- Statutory inspections fire system pressure vessel
- Asset integrity inspections

## Supply Chain Services

Marteq Energy has in-house team of Contracts and Procurement Experts with Global Industry Experience in,

- Specialist knowledge, experience, expertise, contacts, systems and technology to define global procurement models, conceive strategy and design optimal procurement governance structures
- All contracting and procurement functions will be conducted in full compliance with the Client’s protocols that includes PSCs, RFQ, HSE&Q, Cost Recovery, Local Content and other Corporate Policies on purchasing, ethics, anti-corruption and audit compliance requirements.

All long lead items are identified and ordered during initial stages of the project. Our team maintains, evaluates and expands on reliable sources and backup sources to ensure supplier delivery meets the project requirements

## Ex-Inspection Services

Marteq offers a wide range of Inspection Services to Onshore & Offshore industries to ensure Equipment Facilities, products and Systems comply with all the applicable requirements.

- Marte q Familiar with NOPSEMA and have been Australian Offshore industry with direct contact with regulatory authorities for more than 15 years.
- Demonstrated multi discipline knowledge and inter-discipline coordination with specific emphasize on EEHA/ EPD, Process Control, Instrumentation, Communications, machinery controls and Instrumentation.
- Handled many brown field projects from FEED to Start-up, including HAZOP, HAZID, OPREP, CREST, Constructability & Commissioning Risk studies.
- Preparing PED & ATEX compliance documentation under DNV GL for CE certification
- Electrical and Non-electrical (Mechanical). Responsible for ATEX and PED regulatory compliance.
- Managed the transitional requirements of ATEX 1995 to ATEX 2015 and acted as TPEF.

Our inspections will result in a complete and comprehensive inspection of all installed Ex equipment by experienced, qualified inspectors.

## Decommissioning Services

Marte Energy has successfully served its clients' global needs for cost-effective decommissioning solutions that ensure the safe, efficient removal of offshore infrastructure such as platforms, conductors, subsea hardware and wells.

Marte Energy offers the following decommissioning services:

- Engineering including all required calculation to generate all required detailed
- Project management all the work stipulated in this Contract; All other required services; Offshore marine spread; such as offshore decommissioning and tow plans and procedures;
- Support Decommissioning and Isolation of FPSO System including the Electrical,
- Mobilization of the marine spread;
- Support Decommissioning and Isolation of all related and required FPSOs

We offer Integrated Decommissioning Solution across the Decommissioning value chain from concept studies, engineering to project execution.

## Certifications



## Industries We Serve



**Marine**



**Oil and Gas**



**Mining**



**Power Generation**



**Pharmaceuticals**



**Semiconductors**

## Our Valuable Clients



## Quality & Safety Standards



Reach out to us to ensure the best solutions for your site

## MARTEQ ENERGY PTY LTD



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