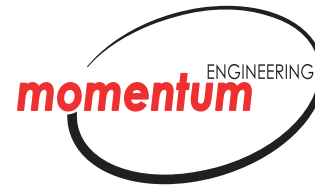


# CAPABILITY STATEMENT



Engineers & Managers



## About Momentum Engineering

Our services are engineering consulting and project management.

Our focus is the energy and resource sector.

Our goal is to provide flexible, practical and efficient services.

Our customers are large and small companies seeking an understanding, co-operative and effective approach to their needs.

**Our values**

- Efficiency
- Integrity
- Respect
- Flexibility
- Delivery

Momentum Engineering taking you forward.

## Our Capabilities

We provide services for the delivery of new facilities and the optimisation, modification, operation and maintenance of existing facilities.

### Offshore

- Fixed offshore production facilities
- Floating offshore production and storage facilities

### Onshore

Processing:

- Oil and gas production plant
- LNG production and storage
- Petrochemical and refining facilities

### Transmission and reticulation

- Pumping and compressor stations
- Pipelines
- Inlet and delivery facilities
- Storage

### Infrastructure

- Power generation

### Project Delivery

We execute projects ranging from the delivery of a ready to operate facility to the design of a single equipment installation.

We provide the following services, in a stand alone or integrated manner:

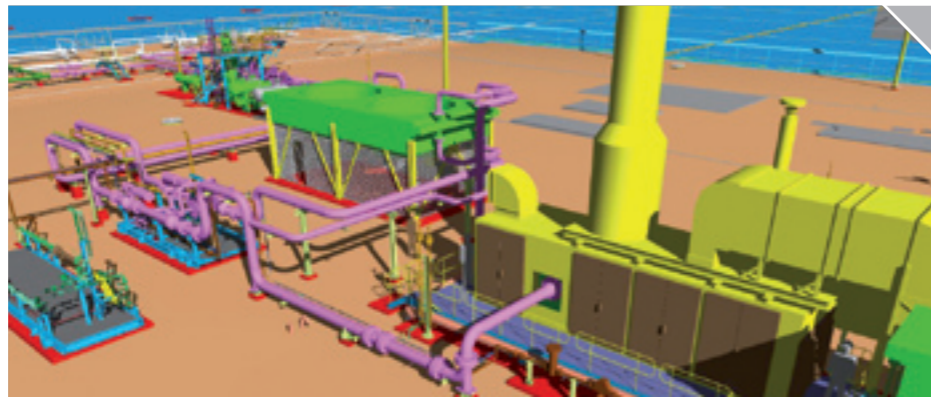
- Conceptual engineering studies
- Front end engineering design
- Detailed design execution
- Project management
- Procurement execution and management
- Quality control management
- Fabrication management
- Construction support and management
- Commissioning support and management
- Maintenance and operations support
- Shutdown support and management

We execute these services in a single or multiple discipline arrangement as required.

### Engineering

We provide engineering services across the full range of disciplines:

- Process
- Mechanical
- Layouts
- Structural
- Instrument
- Controls
- Materials Selection
- Health and Safety
- Piping
- Pipeline
- Design
- Civil
- Electrical
- Quality
- Coatings
- Environmental



### Specialist Consulting

We provide focused, specialised engineering services:

- Process selection, optimisation and debottlenecking
- Process analysis and troubleshooting
- Rotating equipment analysis and troubleshooting
- Piping and static equipment stress assessment using conventional and finite element analysis
- Reliability and maintainability assessments
- Risk and hazard workshop facilitation
- Peer and third party reviews

### Management Teams

We provide management individuals and teams, single or multiple disciplines:

- Design engineering
- Project management
- Owners engineer and customer representation

We provide these teams in a single or multiple discipline arrangement as required.



### Construction, Commissioning & Shutdown Support & Management

We provide teams and individuals for the engineering, planning, management and supervision of:

- Fabrication
- Construction
- Implementation
- Commissioning
- Shutdowns



### Operations & Maintenance Support

We provide engineering and management support to operations and maintenance:

- Engineering change execution
- Minor and major project scoping and delivery
- Troubleshooting and operation analysis

We provide integrity support:

- Equipment integrity reviews
- Re-rating assessments
- Failure assessments
- Plant asset integrity support
- Stress analysis, including finite element assessment



## Personnel

Our personnel have extensive industry experience and exposure. Individually they have specific areas of expertise which, combined with a practical and flexible approach, allow Momentum Engineering to successfully undertake a broad spectrum of activities within the industry.



Taking You Forward



## Areas of Expertise

### Pipeline Engineering

We undertake pipeline engineering:

- Linepipe selection
- Route reviews
- Risk assessments
- Station design



### Materials handling

We execute detailed materials handling studies and develop specifications and designs for materials handling equipment:

- Materials handling studies
- Selection and specifications
- Performance assessment and testing
- On-site assessments and supervision

### Process Selection, System Design & Support

We undertake process engineering selections, system designs and sizing for new and operating facilities and assessments and modifications to existing plant:

- Conceptual and front end engineering studies
- Process analysis and optimisation
- Process system design and equipment sizing
- Process troubleshooting
- PFD and P&ID development
- Hydraulic assessments
- Start up and operating guides
- Commissioning support and implementation
- Operations support



### Piping & layout engineering

We undertake piping, equipment and layout engineering at a practical, effective level:

- Piping class development
- Piping and valve specification and selection
- Pipe stressing
- Piping layout development and review

We execute this for all levels of complexity from simple stand alone equipment to full scale production facilities. For brownfields work we use the most appropriate measurement methods depending on the application - from conventional techniques to three-dimensional point-cloud data collection.



### Equipment selection & design

We select, size, specify and manage to delivery the correct equipment for the application taking into consideration the process arrangement, customer requirements, technical integrity, health and safety, environmental needs, reliability, capital and operating expenditure.

#### Rotating machinery

- Gas turbines
- Compressors
- Pumps
- Alternators
- Motors
- Engines
- Steam turbines

#### Packaged equipment

- Glycol regeneration
- Molecular sieves
- Crude desalting and dewatering
- Seawater de-aeration
- Reverse osmosis water makers
- Air compressors and dryers
- Chemical injection
- Nitrogen generation

#### Static equipment

- Pressure vessels and internals
- Heat exchangers
- Reactors
- Distillation columns
- Filters, coalescers and hydrocyclones
- Flares
- Tanks

#### Support equipment

- Pedestal mounted cranes
- Gantry cranes and trolley hoists
- Mobile cranes
- Transportable fluid containers
- Safety and fire fighting apparatus
- Temporary living quarter modules

#### Piping Systems

- Valves, pipe, fittings, flanges
- Special piping items

#### Instrumentation

- Field Instruments
- PSV, control and activated Valves

#### Electrical

- Transformers and switchgear
- MCC's



## Principles

Momentum Engineering provides their services by:

- Working with the customer to clearly identify needs, outcomes and objectives
- Scoping, managing and executing work in a cost and time effective manner whilst providing a practical and quality solution
- Minimising customer costs by applying efficient and practical working practices
- Using the experience of focused, competent and dedicated personnel
- Maintaining a flexible, amicable and professional approach with our customers

## Contact us

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## Further Information

This capability statement provides an overview of our services and experience.

Please contact us to discuss your particular requirements and situation to determine how we can assist.

Momentum Engineering looks forward to working with you and contributing to the success of your business.



