



CAPABILITY STATEMENT

About Promech

Specialising in High Quality, Cost Effective and Practical Engineering Solutions. Committed to Exceeding Client Expectations.

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OVERVIEW

Promech is a multi-disciplinary Engineering Design and Project Management company. Promech specialises in small to medium sized projects with particular focus on the Alternative Fuels, Petrochemical, Conventional Oil & Gas and Mining Industries.

Promech is focussed on providing a comprehensive, high quality and high value service to its clients and can cater for all stages of projects from project definition and conception through to commissioning and operations.

Promech was formed with a view to delivering an unrivalled level of dedicated service to our clients and our track record to date has proven that we can do so. At Promech we firmly believe that having the attitude where we demonstrate unwavering commitment and take full responsibility for our end product sets us apart from our competitors. This level of commitment and sense of responsibility for the work we produce has been instilled within every member of the Promech team.



OUR POINT OF DIFFERENCE



Promech's ability to understand and appreciate our client's requirements, project time constraints and budgets, no matter how small or large they may be, ensures Promech consistently delivers practical project solutions tailored to suit our client's exact needs.

The size of our highly skilled, specialised and experienced team has not only allowed us to maintain an elevated level of quality output supervised by our in-house RPEQ engineers, but has ensured that we continue to be very flexible in our approach, adapting quickly to the requirements at hand and importantly ensures that a streamlined and highly cost effective solution is provided to all of our clients.

Services

Our in-house team of engineers and design drafters can deliver a high quality service in the following areas.

Mechanical Design Engineering

Promech's founders, both Mechanical Engineers, have built a formidable Mechanical Design Engineering capability, upon which the company has been based. In this, Promech's core discipline, we can offer a high value service in the following areas:

- Piping & Equipment Material Specification
- Plant & Piping Layouts
- Piping Stress Analysis (High Temperature & Pressure)
- Pressure Vessel & Tank Design
- Module/Skid Design
- Wellhead Design
- Design of Pipe Supports, Equipment Structures, Access Platforms & Ladders

Fundamental Engineering Standards utilised include AS4041, ASME B31.3, AS1210, ASME VIII, API650, AS1940, AS4100 & AS1657.

Process Design Engineering

In order to offer turnkey and fully integrated Engineering Solutions to our clients Promech has formed a strong internal Process Engineering capability. This capability includes:

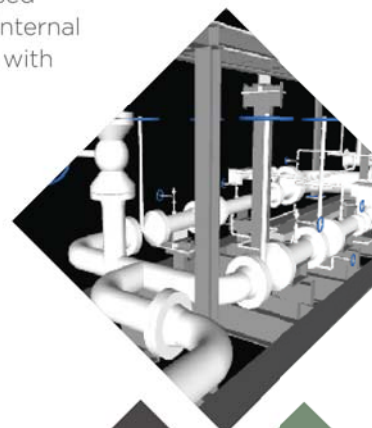
- Block Flow Diagram Development
- PFD & P&ID Development
- Specification of Equipment, Valves & Instrumentation
- Control Valve & Pressure Relief Valve Sizing
- Pipeline Sizing & Hydraulic Analysis
- HAZOP Facilitation
- Process Troubleshooting

Primary Engineering Standards utilised include API520, API521 & API537.

Design Drafting

In order to allow our engineering designs to be reviewed, optimised and most importantly constructed Promech offers an extensive internal design drafting capability. Our design drafters working in unison with our engineers can offer the following services:

- Block Flow, PFD & P&ID Drawings
- 2D & 3D CAD Design Drafting
- Plant/Site Layouts & Plot Plans
- Module/Skid 3D Layouts & Design
- Piping Isometrics
- Detailed Fabrication Drawings
- On-Site As-Building



Project Management

From concept through to completion, Promech is capable of providing a high value project management service to our clients. With a strong focus on small to medium sized projects, Promech's team has the ability to manage every aspect of a project including:

- Concept Identification & Development
- Scope Definition, Management & Control
- Cost Estimation
- Schedule & Budget: Creation & Management
- Execution Planning, Strategy Development & Risk Assessment
- Progress Reporting
- Documentation Control



Project Engineering

In all Projects, Promech strives to ensure that the critical links between Engineering, Project Management and Construction are maintained at the highest possible standard. High quality Project Engineering based on practical experience is one of Promech's key strengths and our capability in this area includes:

- Technical Specifications & Reports
- Contractor Scopes of Work & Work Packs
- Request for Tender & Tender Evaluation Documentation
- Procurement Assistance, including Vendor Identification & Equipment Selection
- Management & Support of Sub-Contractors
- Client Representation (Offsite and Onsite)
- Site Based Engineering Support



Construction Assistance and Plant Commissioning

Promech's personnel have a wealth of knowledge and experience in the areas of Construction Assistance and Plant Commissioning where we can offer the following services:

- Liaison between Construction Team & Engineering Design Office
- Technical Resolutions for Construction Teams
- Assist Clients with Statutory Obligation Compliance
- Quality Assurance including MDR Compilation & Review
- Development of Commissioning Plans & Equipment Check Sheets
- Factory Acceptance Testing
- On-Site Hands On Equipment & Plant Commissioning
- Ongoing Troubleshooting & Assistance



To complement our core capabilities, Promech has developed long standing and trusted relationships with specialists in the fields of civil, electrical and control engineering.

These relationships ensure Promech is capable of offering an all-inclusive engineering service to our valued clients.

Recent Projects

Promech has been involved in many diverse projects, below is a selection of recent highlights.

UNDERGROUND COAL GASIFICATION (UCG) PROJECT **Carbon Energy**

**ENGINEERING DESIGN &
PROJECT MANAGEMENT**

Promech was engaged to complete the full plant design and project management of Carbon Energy's latest UCG project. This project, involving all engineering disciplines, included concept development through to the production of issued for construction drawings and equipment specifications.

For this project Promech relied heavily on its extensive UCG design and operational experience to deliver an up-graded, modularised and containerised UCG facility design. As the project was based in China, Promech was also engaged to assist with client representation and the local procurement and construction elements of the project.

COAL TO LIQUIDS (CTL) PILOT PLANT **Client Confidential**

**COMMISSIONING &
ONSITE PROJECT ENGINEERING**

This project involved commissioning and onsite project engineering for the first two phases of a CTL Pilot Plant.

Commissioning included planning, execution and documentation of all process and mechanical equipment pre-commissioning, functional testing and operational process troubleshooting. Onsite project engineering involved design, procurement and installation of essential process systems such as gas sampling, fuel gas conditioning and process water treatment. This project was delivered in conjunction with Procom Consultants.

BULK OIL STORAGE FACILITY UPGRADE **Senex Energy**

ENGINEERING DESIGN

This project involved the upgrade of an existing oil production facility to increase its production capacity and water management capability.

Promech's scope included an on-site review of the existing facility followed by detailed process and mechanical design works undertaken in collaboration with the client's operations team. Issued for construction drawing packages were released in a staged manner which allowed early on-site works to progress in order to meet the client's accelerated schedule requirements. This project was delivered in conjunction with Procom Consultants.

ESTABLISHMENT OF CLIENT STANDARD SPECIFICATIONS **Carbon Energy**

**ENGINEERING DESIGN &
PROJECT MANAGEMENT**

Promech was engaged to create a complete set of Client Standard Specification documents and datasheets for a typical UCG Project.

Promech's scope included the creation of piping specification sheets, design procedures and fabrication specifications, valve datasheets including a variety of material specifications and also equipment and instrumentation specifications and datasheets. Due consideration was taken in the design for the high temperature (>340°C) sour gas service encountered in the UCG facility.



CONTACT INFORMATION

For further information on our services and how we can assist you with your project requirements please contact us.

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