

CAPABILITY STATEMENT

“Production Driven Solutions”



CLIENT FOCUS



INTEGRITY



RESULTS DRIVEN

Clough History



1919

1950

1960

1970

1980

1990

2000

2010-2016

97 years in Australia
Established in 1919



59 years of major engineering & construction projects
1957 Narrows Bridge Project awarded



52 years of jetty design and construction
1964 Hamersley Iron Parker Point load out jetty awarded



50 years of oil and gas project execution
1966 Barrow Island Oil Field Development awarded



33 years in PNG
1983 Kutubu Project awarded



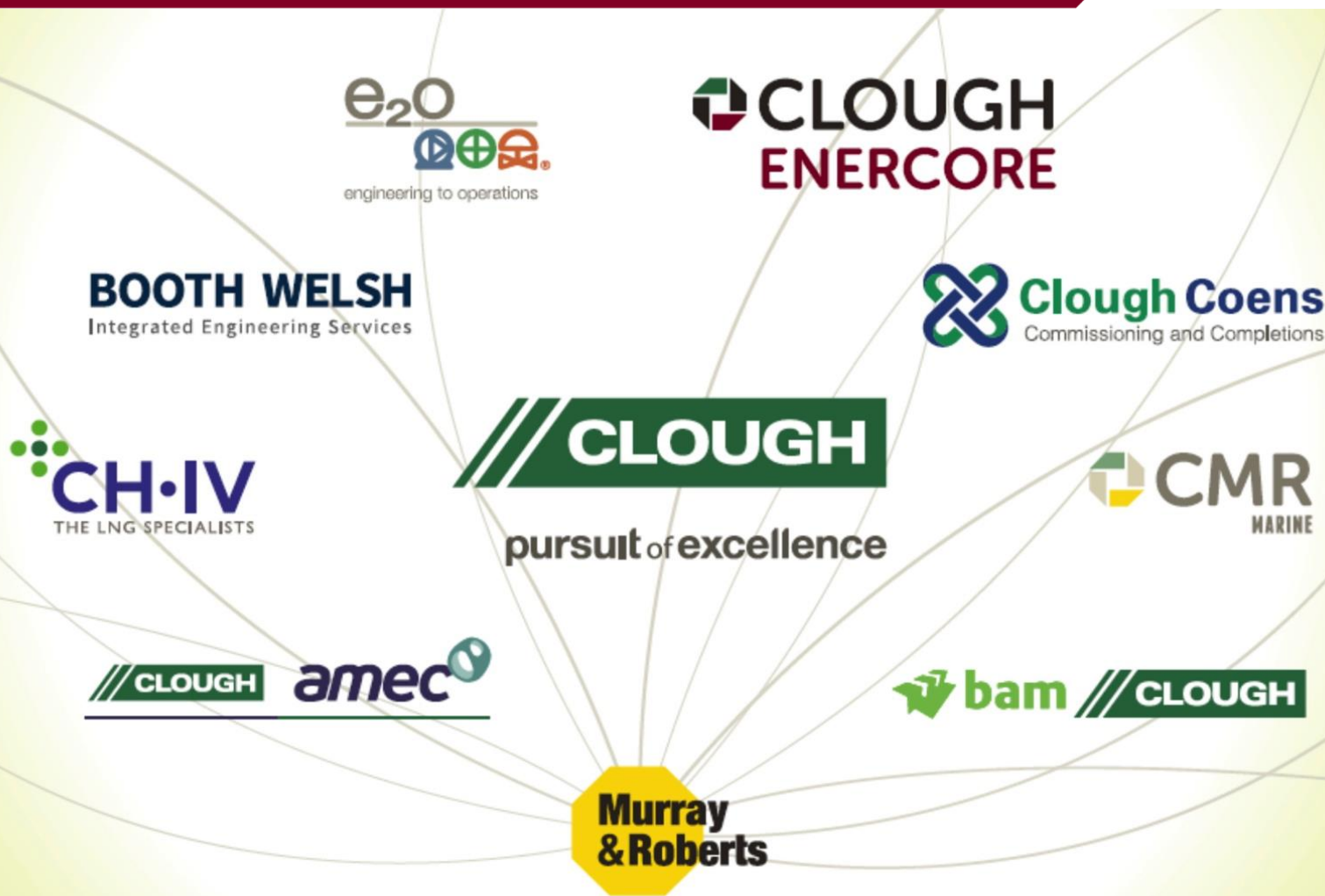
31 years in LNG
1985 Built Australia's first LNG Jetty



12 years in
Brownfields

Clough Enercore
est. 2015





Global Centres of Excellence



Combined service offering from concept, feasibility studies, detailed Engineering & EPCM/EPC through to production optimization, debottlenecking, commissioning and operational readiness.

Clough Enercore

Engineering, procurement, construction and operational support services for North American oil and gas projects, specializing in the Midstream Natural Gas, LNG, Heavy Oil / Oil Sands, conventional Oil and Waste Treatment and Disposal markets.

CH-IV

A full spectrum of LNG consulting and design services for specialized LNG products and services including import and export terminals, small scale LNG, peakshaving facilities and owners engineering and regulatory support for major facilities LNG developments.

About Clough Enercore



Clough Enercore brings together Australia's leading engineering and project management contractor **Clough** with Canadian local EPCM service provider **Enercore Projects Ltd.**

We focus on four **Key Pillars** of our business to deliver Multi-Disciplined Engineering, EPCM/EPC and operational readiness solutions to Oil & Gas clients.



Zero Harm

- Award winning Safety Program
- A walk-the-talk Company
- COR Audit performance for past 3 years = 93 – 97%
- Environmental, Community & Social responsibility



Cost Efficient Services

- Lean Scalable project delivery approach
- Engineering to construct mindset
- Access to Clough's value engineering knowledge base
- Productivity Focus
- Execution Excellence
- Performance driven Commercial Models



Technology & Innovation

- Portfolio Management systems and tools
- Intelligent Engineering Cloud based technology
- Continuous Improvement Processes
- Small Scale LNG Fuel Solutions



Protecting Client Investments

- Production Driven Solution (employ early production, facility optimization)
- Collaborative, communicative and transparent style
- Project decision making driven by Client's needs not Contractor's profit

Zero Harm: Health, Safety, Security & Environment

Nothing is more important than the safety of people, protection of the environment and compliance with regulations. Clough Enercore Management is committed to creating a positive HSSE team culture, one where all team members take personal responsibility in achieving our company goal of *Safety Excellence*.

- Proprietary and award winning Major Accident Prevention (MAP) program
- Proactive HSSE leadership is top priority across all activities
- Positive HSSE team culture with personal responsibility for employees, contractors and clients
- Belief that all incidents and accidents are preventable
- Zero incidents & zero lost man-hours is our goal
- All engineering and design activities are undertaken in accordance with our Safety in Design business processes and procedures which aim to eliminate or reduce the risk of injury throughout the life of the product being designed.
- Clough Enercore's COR certification HSSE external audits have yielded top results:
 - 2015 = 97%
 - 2014 = 93%
 - 2013 = 93%



Clough Enercore provides high quality, innovative and cost effective solutions to a diverse group of energy clients in the following markets:

NATURAL GAS



LNG



PIPELINE, GATHERING
SYSTEMS & FLOWLINES



CONVENTIONAL OIL



HEAVY OIL / OIL SANDS



WASTE TREATMENT,
RECOVERY & DISPOSAL



North American Clients



Global Clients



Clough Enercore provides a lean, scalable project delivery approach, supported by Engineering centres and project management capability structured to optimize utilization and reduce the overall cost for our Clients.

- Lean Scalable project delivery approach
- Engineering to construct – construct to operate mindset
- Access to Clough's value engineering knowledge base
- Engineered for purpose
- Productivity Focus
- Collaborative and aligned relationships direct our focus on value decisions
- Performance Driven Commercial Models



MUTI-DISCIPLINE ENGINEERING		EPCM/EPC		OPERATIONAL READINESS & COMMISSIONING	
Consultancy	Engineering & Design	Offshore & Onshore	Near Shore Marine	Commissioning	Brownfields
 <ul style="list-style-type: none"> • Concept Evaluation & Design • Feasibility Studies • Basis of Design • Regulatory Support • Specialized Process Engineering Design • Process Optimization and Debottlenecking • Cost Estimating EI & C • 3D Operational & Constructability Model Review 	 <ul style="list-style-type: none"> • Front End Engineering & Design • Detailed Engineering Design • Multidiscipline engineering including Process, Civil and Structural, Mechanical and Piping & Pipelines • 2D & 3D Design & Drafting • As-Building • Brownfield Engineering • Field Engineering • 3D Laser Scanning 	 <ul style="list-style-type: none"> • Project Management Consultant & Services • Engineering and Procurement • Construction Management • Logistics • Sub-contractor Management • EPCM services • Turnkey EPC 	 <ul style="list-style-type: none"> • Import and Export Jetties • Jetty Topsides • Ports and Harbour Infrastructure • Quay Walls • Material Offloading Facilities (MOF) • Intake and Outfall Structures • Regasification Terminals • Near Shore Pipelines • Tug Pens • Supply Bases • Marine Engineering 	 <ul style="list-style-type: none"> • Completion Services • Hook-up Services • Pre-Commissioning • Commissioning • Commissioning Assurance 	 <ul style="list-style-type: none"> • Sustaining Capital • Maintenance Management and Execution • Facility Debottlenecking & Optimization • Operational Readiness • Supply Chain Management • Reliability Modelling • Competency Assurance and Training • Decommissioning

Multi-Discipline Engineering



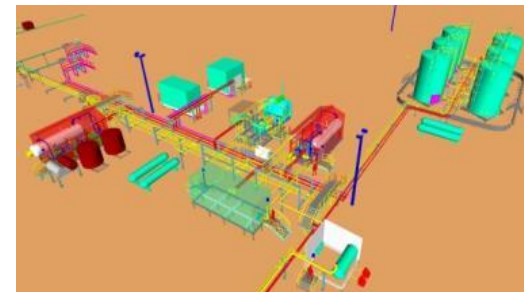
Germain Commercial Demonstration Project

Client	Laricina Energy Limited
Location	Fort McMurray, Alberta, Canada
Scope	Grass Roots SC-SAGD CPF and well pad to produce 5,000 BPCD Bitumen; FEED, Detailed Engineering, Construction Support; Solvent-Cyclic (SC) process; ESP's, diluent treating, HLS, WAC



Athabasca Disposal Facility

Ceiba Energy Services
Athabasca, Alberta, Canada
Sweet and sour common oilfield waste fluids (Class 1B) and landfill leachate water.



Red Rock 09-07-062-06 W6M Battery Upgrade

Encana
West Central Alberta, Canada
FEED and Detailed Engineering for a 2,000 BOPD oil battery.
Replace existing rental equipment with permanent facility modified to process future production.



POD 1 Mini Expansion Project

Client	Connacher Oil & Gas Limited
Location	Fort McMurray, Alberta, Canada
Scope	Project to increase steam production at Connacher's Pod 1 SAGD by 500t/day. New steam generator and (2) two evaporators. Project management, Project Services, Supply Chain, Document Control, Process, Mechanical, HVAC, Piping, Civil Structural, Electrical, Instrumentation, Construction Management.



Leitchville Sour Oil Battery

Client	Penn West
Location	Leitchville, Saskatchewan, Canada
Scope	Start-up for a 2200 BPCD Sour Oil Battery and design of Gathering System facilities feeding the Sour Oil Battery. FEED, Detailed Engineering, On-site Construction support, On-site Commissioning planning support.



Mars Gas Compressor Project

Client	Apache
Location	Western Australia
Scope	Self perform design and construction for the installation of an additional solar compressor with associated pipe work including: Instrumentation on the existing plant, Process and Engineering, Detailed design Logistics, Earthmoving and Civil Work, Structural Steel and Equipment Installation, Piping, E&I, Pre-commissioning and Handover, Commissioning support.

Operational Readiness & Commissioning



Alger Lake SAGD Project

Client Grizzly Oil Sands

Location Northern Alberta, Canada

Scope Detailed Engineering, construction support, commissioning and start-up support for a 5,000 barrel per day SAGD facility.



MacKay River Commercial Project

Client Brion Energy

Location Northern Alberta, Canada

Scope Operational readiness review (ORR) for a 35,000bpd SAGD facility



Gladstone LNG Commissioning Management Services

Client Santos/Total

Location Queensland, Australia

Scope Commissioning management services for the upstream field development, and commissioning of the pipeline for the upstream project.

MAP

MAJOR ACCIDENT PREVENTION

MAP

Innovative Major Accident Prevention program that brings the rigor of offshore safety cases to the onshore construction environment (Award winning)



ClearView® Portfolio Management System

Scalable and suitable to operate in an integrated environment through user-friendly interface application to transfer data to and from Clients applications



Continuous Improvement Process

A structured and rigorous approach to reduce waste and increase efficiencies in the delivery of projects productivity issues

LNG FUEL

LNG Fuel

Reduces cost and emissions for mining clients by converting their natural gas to LNG and delivering this to their site for power use and/or fuel demand.



Knowledge Base

Design and useful cost and quantity data for all historic oil and gas projects executed in the last 25 years.



Cloud Based Engineering

Enabling collaboration across the global network of engineering and operating centres through Cloud based technology

Protecting the Client Investment

- “Production Driven Solutions” (employ early production, facility optimization)
- Alignment with our Client and their goals
- Focussed on increasing productivity and reducing Client risk
- Provide transparent, timely, complete and credible reporting to the Client
- An early warning culture that requires team members to report potential or actual deviations from the plan immediately
- Project decision making driven by Client’s needs not Contractor’s profit

