



CLOUGH

pursuit of excellence



Agenda



Market Overview

Business Overview

Services

Contracting Models

Strategy and Outlook



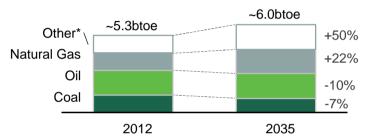


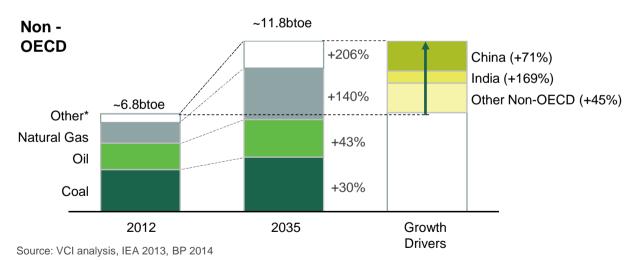
Global Energy Demand



World Projected Energy Mix In 2035

OECD





^{*} Note: Renewables, nuclear, and hydro

Commentary

- Population and income growth are the key drivers to increasing energy demand
- Non-OECD countries will account for 88% of total energy demand growth to 2035
- Natural gas is forecast to make up an increasing share of energy mix
- Global energy demand growth is generally smoother than mining

Growth in world energy demand is driven by non-OECD countries



The Compelling Case for Gas





Gas is Abundant

- Over 250 years of global reserves now available...still more to be found
- By 2020 LNG could meet 20% of global gas needs
- LNG the ultimate pipeline

Gas is Acceptable

Gas fired power stations emit 50-70% less CO2 than coal

Gas is Affordable

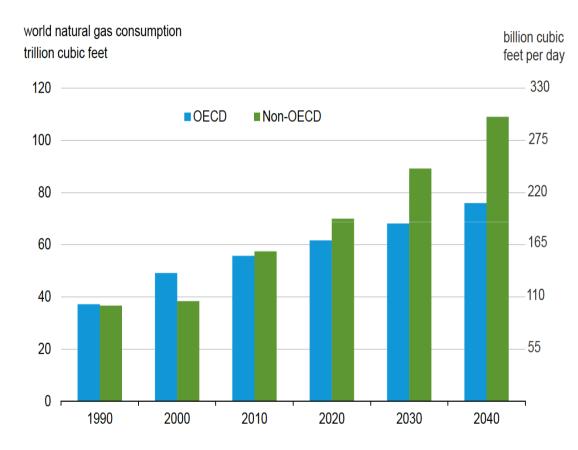
Gas fired power stations have lowest relative capital cost of power generation

Natural gas replacing coal is the surest, fastest and cheapest way there is to reduce CO2 emissions



Gas Demand Forecast





Source: EIA, International Energy Outlook 2013

Gas Trends

- Non OECD countries account for 70% of growth in natural gas
- Technology shifts unlocking unconventional gas reserves
- The move away from Nuclear power in Japan and Europe
- Increasing use of gas as a transportation fuel
- Climate stress will increase demand for cleaner fuels
- Gas is increasingly being seen as a destination fuel rather than transition fuel

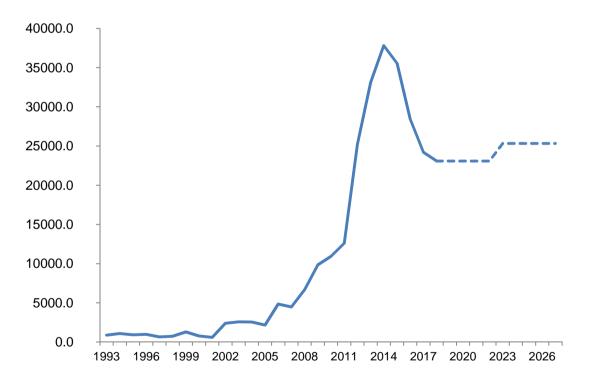
The world will need twice as much energy but half the amount of CO2 emissions



Australian Capex: Oil & Gas



Oil, gas and other hydrocarbons – Capex spend (\$m)



Source: BIS Shrapnel

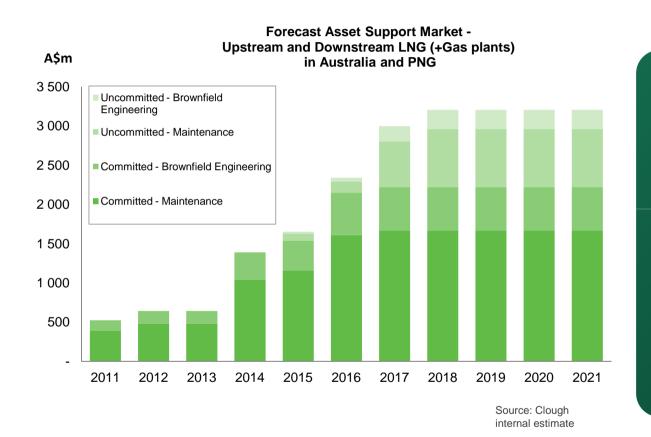
- Currently \$277B of energy and chemical projects are under construction in Australia, with a further \$297B at the feasibility stage.
- Of the projects under construction, \$205B of investment is from LNG projects.
- Australia accounts for more than 70% of LNG projects under construction globally.
- Investment in the Australian LNG market will start to decrease in 2014 though will stabilise in 2017.

Significant long term investment



Opportunities: Transition to Brownfields





- A step change in installed capacity will result in increased demand for production operations support services and small to medium capital works projects from 2014 onwards.
- Estimated annual expenditure on brownfield maintenance support for LNG plants is approximately 1.1% of the initial capital investment.

Increased market for production operations support services



Clough: Established in 1919



1919

1950

1960

1970

1980

1990

2000

2010

95 years in Australia Established in 1919





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



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







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



30 years in PNG 1983 Kutubu Project awarded



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



years in
Operations &
Maintenance

Clough AMEC Established 2004



Clough Today -4 + 2 + 3



4 Products Engineering & EPCM



Construction

Minor & Medium Capex Projects



Major Capex Projects



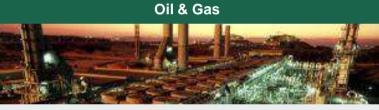
Jetties & Terminals







2 Market Sectors



Upstream, downstream, offshore, onshore, oil, gas and LNG and petrochemicals markets

Minerals

Iron ore, coal, precious and other metals markets

Complementary Markets

Water, Power and other complementary energy and resources infrastructure.

3 Regions

Australia West Coast & SE Asia

Australia East Coast & PNG

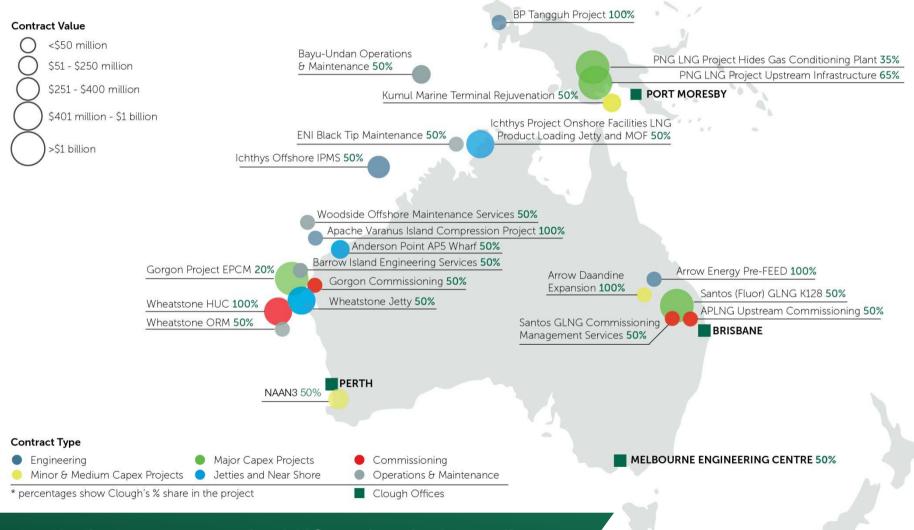
International

Structured for selected expansion of global services whilst leveraging Australia & PNG position



Current Projects





Active on every major LNG project in Australia & PNG



Services across the project lifecycle





We engineer to construct and construct to commission, operate and maintain



Engineering & EPCM



Capabilities include:

- **Concept Evaluation**
- **Project Feasibility Studies**
- Basis of Design
- Front End Engineering Design
- **Detailed Design**
- Specialised Process Engineering Design
- Engineering, Procurement, Construction and Project Management (EPCM)
- Project Management Consultant (and Services)
- **Process Optimisation and Debottlenecking**
- **Brownfield Engineering**





















CONSTRUCTION:Minor & Medium Capex Projects



Capabilities include:

- Brownfield Expansion and Modification Projects
- Process Facilities
- Balance of Plant Infrastructure
- Power Generation
- Compression Facilities and Infield Pipelines
- Offshore Fabrication











A lean delivery model across the project lifecycle



CONSTRUCTION: Major Capex Projects



Capabilities include:

- **Process Facilities**
- **Power Generation**
- Compression Facilities
- **Pipelines**
- Civil Infrastructure
- Roads and Bridges
- Camps
- Offshore Fabrication















Jetties & Terminals



Capabilities include:

- Oil, Gas and Minerals Import and Export Jetties
- Ports and Port Development
- Import and Export Terminals
- Berthing Structures, Quay Walls and Breakwaters
- Intake and Outfall Structures / Pipelines
- In-house Design and Construct Capability











Commissioning & Brownfields



Clough's Commissioning Services:

- Bridge the gap between the construction phase and the operations phase
- Integrate with client project execution teams
- Apply sophisticated engineering techniques that identify and schedule commissioning requirements early in the project
- Detect and intervene early on potential schedule delays
- Develop commissioning procedures in line with client operating needs
- Independently check, inspect and test every operational component of the asset prior to handover









An attractive alternative to traditional commissioning models



Commissioning & Brownfields



Clough Coens:

- Offers an attractive alternative to the traditional commissioning model
- Brings a skilled Korean workforce, training and development expertise, and extensive knowledge in the delivery of commissioning projects Korean & Chinese fabrication yards.
- Global resources that hook up and commission projects in their final location – database of 6000 personnel in Asia and Australia
- An extensive track record in the delivery of commissioning projects in Australia, Korea and China



Independent commissioning services for the world's largest fabrication yards



Commissioning & Brownfields



Operations & Maintenance capabilities include:

- Operations Engineering
- Reliability Modelling
- Maintenance Management and Execution
- Shutdowns and Turnarounds
- Operational Readiness
- Supply Chain Management
- Operators Maintenance Staff
- Competency Assurance and Training (classroom and e-training)
- Decommissioning













Current Contracting Models

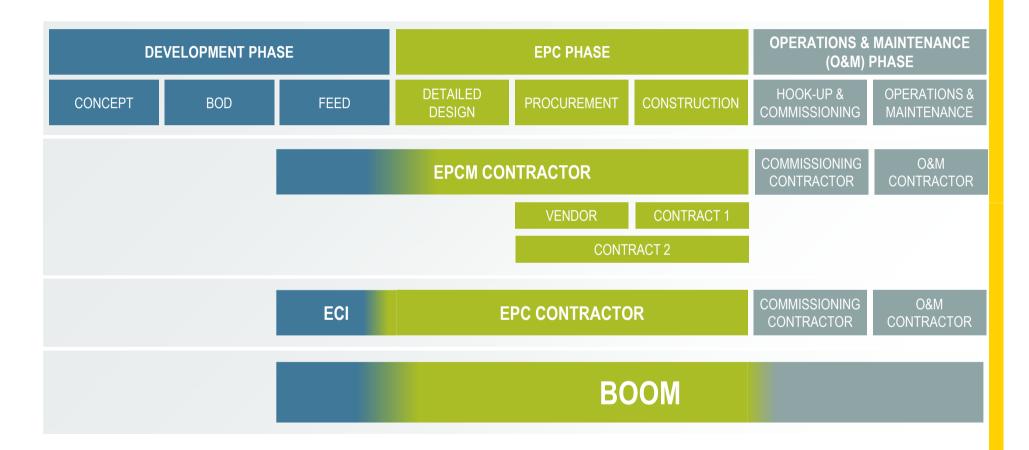


	Benefits	Issues
EPCM	 Owner involvement Early owner engagement at technical definition Owner controlled team 	 No single-point accountability for contractor Owner retains interface risk Limited risk to contractor for cost & schedule outcomes Large owner's team required to manage EPCM contractor Extensive administration
EPC	 Contractor retains single-point accountability Contractor retains interface risk Transfer of risk to contractor for cost, schedule and performance 	 Requires high technical maturity Owner scope impact on contractor Change management Limits innovation and value adding Contractor has no commercial driver to consider operations



Contracts across the Project Lifecycle





Boom contracting model reduces the number of contract interfaces



Strategic Growth



Horizon 3 Transformational Change Build an annuity business through operations capability Build Own Operate Maintain commercial models Domestic LNG plant operations **Horizon 2** Own or access to specialist skills and IP **Deliver Organic and Inorganic Growth** Diversify service offering through principle of adjacencies Selected global services where Clough can be competitive (including Engineering). • Full project life cycle service (EPC +) for small to medium capital projects Horizon 1 Organically grow PNG and CSG business **Foundations for Growth Build Organisation Capability** Invest systems/process capability 4+2+3 focus on core business Develop productivity mindset and PoE culture

Increase leadership capital

Incentivise for performance

Mining & Minerals capability

Talent management programs

Commentary

- Governance systems and robustness have been vastly improved
- Now targeting selected services led international expansion
- Leveraging competitive advantages (eg. Local market relationships/ insight)
- Organisational capability shift, but more to be done

Clough continues to progress against the current strategy

Improved business governance

Increase business efficiency

Refresh overarching safety

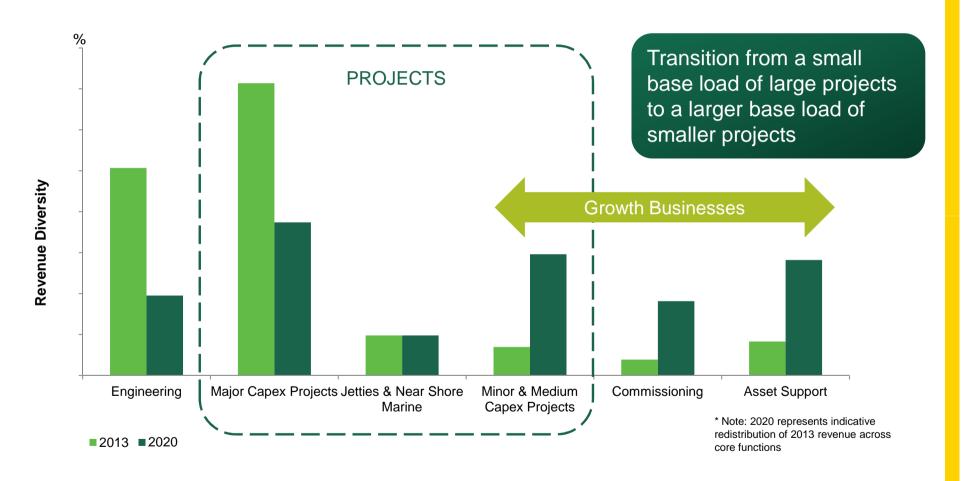
Clough Management System

strategy



Revenue Diversity: 2013-2020





Revenue distribution across core business areas will evolve over time



Summary



- The global oil & gas industry is a growth market; gas is affordable, abundant and acceptable
- The oil & gas industry in Australia transitioning to Brownfields but significant ongoing capex opportunities remain
- The mining industry is transitioning from large scale projects to large scale operations
- We have refreshed 4+2+3, strategy and vision from last year
- Two pronged strategy to provide balance between current returns and future growth:
 - Integrated EPC contractor focusing on Australia and PNG
 - Selected service offerings capable of competing globally
- Integrating processes and systems throughout the company and projects
- Focused key initiatives to drive business forward





Appendices



Engineering Key Projects



pursuit of excellence





Client	INPEX
Location	Offshore Darwin, Northern Territory
Contracting entity	Clough Doris
Scope	Integrated Project Management Services overseeing the detailed design, procurement, fabrication, commissioning, tow to site, and offshore hook-up of the Central



Arrow Upstream FEED

Arrow Energy Limited

Queensland

Clough AMEC

FEED for the full upstream development for Arrow CSG to LNG development. Includes gathering, field compression, central compression and associated pipelines and infrastructure.



Tangguh Expansion Project

BP Berau

Bintuni Bay, West Papua, Indonesia

Clough

Basis of Design for a 3rd LNG train (T3), mechanical engineering studies and supporting scope development, definition and procurement.

Engineering excellence across every phase

Processing Facility and FPSO.



Minor & Medium Capex Projects - Key Projects





Project	Kumul Terminal Rejuvenation Project
Client	Oil Search PNG
Location	Offshore Papua New Guinea
Contracting entity	Clough AMEC
Scope	Construction management and execution services for the rejuvenation of the Kumul Marine Terminal, located approximately 40km off the southern coast of PNG.



Ammonium Nitrate/Nitric Acid Plant Number 3
CSBP Limited
Kwinana, Western Australia
Downer Clough

Project management, engineering, procurement, pre-fabrication, construction and pre-commissioning for the NAAN3 Ammonium Nitrate plant. The contract was awarded after successful completion of the ECI phase.

A lean delivery model across the project lifecycle



Major Capex Projects Key Projects









Gorgon Project

K128 Upstream Facilities

PNG LNG Gas Conditioni	ng
Plant / Upstream Infrastru	icture

Client	Chevron Australia
Location	Barrow Island, Western Australi
Contracting entity	Kellogg Joint Venture Gorgon (KJVG)
Scope	EPCM, as part of KJVG, for all downstream facilities on the Chevron-operated Gorgon Project – one of the world's largest natural gas projects.

Santos / Fluor Australia Surat Basin, Queensland

Clough Downer JV

Construction of more than 400 kilometres of gas and water transmission pipelines, two compression facilities, six water storage dams an 800-person camp and expansion of the existing Fairview compression facilities.

ExxonMobil PNG Limited

Hela Province and Southern Highlands, Papua New Guinea

Clough Curtain JV

Engineering, procurement and construction work for the gas conditioning plant, nearby wellpads and associated piping, in addition to construction of critical upstream infrastructure across 12 geographically dispersed sites in PNG.

Integrated EPC Services

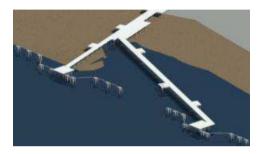


Jetties, Near Shore Marine & Terminals – Key Projects









Anderson Point Facility (AP5)

Wheatstone Project Jetty

Ichthys Project Onshore Facilities LNG Product Loading Jetty and Onshore Module Offloading Facility (MOF)

	Client	Fortescue Metals Group
	Location	Port Hedland, Western Australia
	Contracting entity	BAM Clough

Bechtel

Onslow, Western Australia

Darwin, Northern Territory

JGC Corporation

Scope

BAM Clough

BAM Clough

Design and construction of a 306-metre long wharf extension, seven berthing dolphins, and the supply and installation of wharf conveyor modules.

Design and construction of a 1.2 kilometre jetty with operations and product loading platforms, a single LNG and condensate loadout berth, and associated piping modules and piping installation.

Design and construction of two separate vessel load-out berths, one for LNG carriers and a second for LPG / condensate carriers. in addition to the MOF - a key facility for offloading modules to assemble the LNG liquefaction plant

The Market Leader in Jetties and Near Shore Marine



Commissioning & Brownfields Key Projects





Wheatstone HUC



Bayu-Undan Operations and Maintenance



Blacktip

Client	Chevron Australia
Location	200km North of Onslow, Western Australia
Contracting entity	Clough
Scope	Developing the maintenance database, assuring operational readiness for the offshore facilities, development of operations procedures and training and development programs, and engineering and support services

ConocoPhillips Australia
Timor Sea
Clough AMEC

Operations and maintenance services for ConocoPhillips Bayu-Undan facilities consisting of a floating storage, offloading facility and three fixed platforms. ENI Australia

Northern Territory and Western Australia

Clough AMEC

Provision of trades labour to support routine and campaign maintenance and supporting services including specialist consultancy services, multidiscipline engineering, procurement, and management of subcontractors and fabrication.