



OIL & GAS PLATFORM

Investor Presentation

K Gallagher 29 June 2015





Market & Business Overview

Platform Strategy Overview

Products and Services

Global Centers of Excellence



BUSINESS OVERVIEW



SUMMARY



To achieve our vision, Clough must rebuild the order book to generate \$3 billion in revenue by 2020.

Our business must adapt to reflect changes in external market conditions:

- Accelerated end to the construction super cycle in Australia
- Dramatic reset in key commodity prices

Clough's Vision and strategic imperatives remain though have been updated to include:

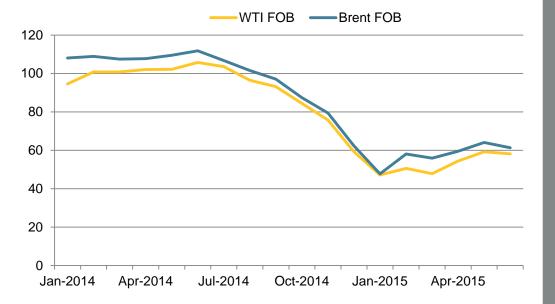
- Market diversification into global marine markets & infrastructure markets in Australia
- Geographic diversification of the Oil and Gas services offering into International markets
- A divisional product focused organisation structure





OIL PRICE PLUNGE





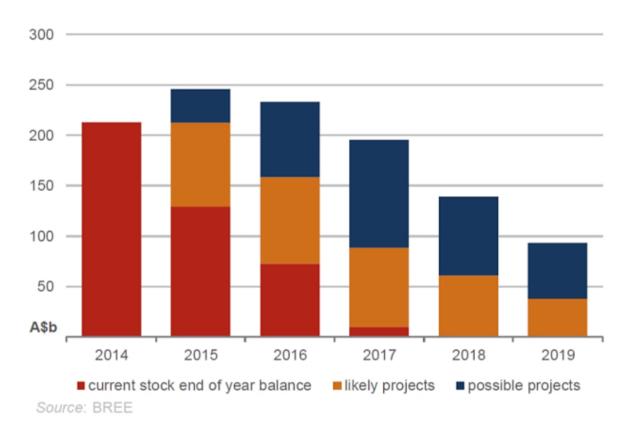
- A surge in supply from USA unconventional, Russia and Iraq
- Lack of demand growth as China slows, depressed growth in Europe & Japan
- Opec cartel no longer supporting price
- Strong US\$
- N.Sea, Deep water and unconventionals marginal supply under threat
- Oil will recover but no sign of bottom yet
- A "new era" of lower prices predicted for next 1 to 2 years



AUSTRALIAN RESOURCE AND ENERGY OUTLOOK COMMITTED PROJECT INVESTMENT



- Project proponents starting to delay project schedules in face of deteriorating market conditions
- Emerging bottleneck of projects at feasibility stage
- Business investment is cyclical and uncertain
- Potential for further investment in the future remains, but subject to market conditions and cost competitiveness



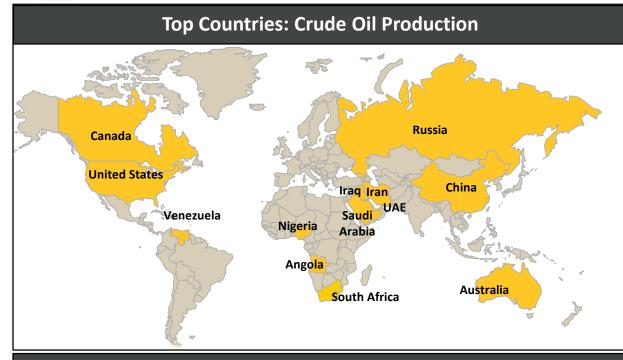
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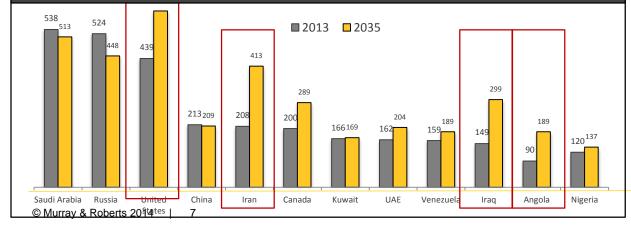
THE US WILL GROW TO BE THE WORLD'S LARGEST OIL PRODUCER BY 2035



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Crude Oil Production: 2013 – 2035e (Mt)



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Country	Mt		
Country	2013	2035e	CAGR
Saudi Arabia	538	513	-0.22%
Russia	524	448	-0.71%
United States	439	601	1.44%
China	213	209	-0.09%
Iran	208	413	3.17%
Canada	200	289	1.68%
Kuwait	166	169	0.09%
UAE	162	204	1.06%
Venezuela	159	189	0.79%
Iraq	149	299	3.21%
Nigeria	120	137	0.62%
Angola	90	189	3.45%
Australia	0.02	0.02	0.13%
South Africa	0.001	0.002	1.14%
TOTAL	2 967	3 661	1.0%

Key Comments

- Overall, of the top crude oil producing countries, a growth rate of ± 1% is evident over the forecast period
- The key countries driving this growth are Angola (± 3.5%); Iraq (± 3.2%) and Iran (± 3.2%)
- South Africa produced ~150 tons of oil in 2013, expected to produce ~190 tons in 2035



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Qatar 8

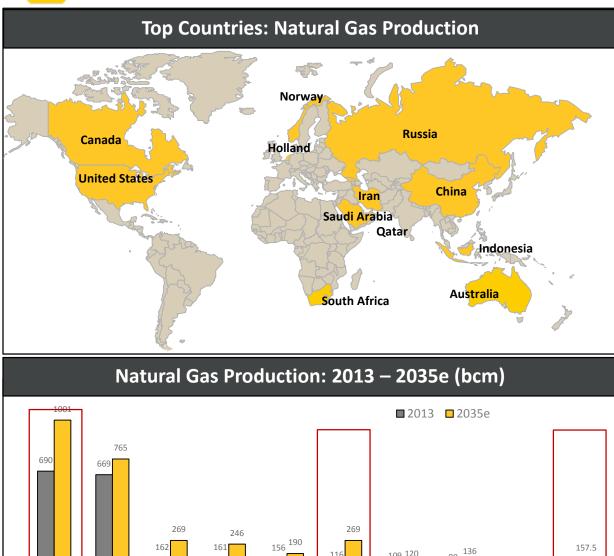
Iran

Canada

SIGNIFICANT GAS GROWTH **PREDICTED IN US & AFRICA**



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109 120

Norway

99

86 28

Indonesia

Saudi Arabia Netherlands

116

China

Country	bcm		CAGR	growth
country	2013	2035e	CAGN	lal gr
United States	690	1 001	1.7%	JUL
Russia	669	765	0.6%	est
Africa total	200	428	3.5%	high
Qatar	162	269	2.3%] ave
Iran	161	246	2.0%	ې د ا
Canada	156	190	0.9%]∥
China	116	269	3.9%	table highlighted Yellow have highest annual
Norway	109	120	0.4%	hild
Saudi Arabia	99	136	1.5%	hig
Netherlands	86	28	-5.0%	able
Australia	85	208	4.1%	the
Indonesia	79	157	3.2%	s in
TOTAL	2612	3816	1.7%	Countries in the
				ပ္ခ်ို

Key Comments

- Overall, a CAGR of ± 2% is evident across the top Natural Gas-producing countries
- Australia looks set to be the dominant force behind this growth, with a CAGR of ± 4% forecast
- China (± 4%) and Indonesia (± 3%) are forecast to be additional forces behind this growth

ENGINEERED EXCELLENCE



GROWTH MARKETS – GLOBAL OIL AND GAS EPC



Canada - 10 LNG projects with export approval (totaling over 100 MTPA), Announced 160 MTPA. Significant Heavy Oil/Oil Sands opportunities

USA - 32 LNG development approval applications received for Non-FTA export (circa 200 MTPA). Under construction 20MTPA) **UK** – opportunities to leverage Booth Welsh presence in oil and gas, petrochemical and nuclear

> **Malaysia** – Government investment in development of smaller and marginal fields.

Indonesia – Eastern Indonesia Opportunities: Sulawesi, Timor, & West Papua

> **PNG** – 20 Tcf of discovered gas in PNG. Only 9tcf is under development

Mozambique – 60 – 80 tcf of gas reserves

Tanzania – 16 tcf of gas

reserves

Australia – Under Construction 68.1MTPA. Planned 3.2 MTPA

High growth regions

High opportunity regions



NORTH AMERICAN LNG PROJECTS





USA LNG Market Snapshot

- 32 development approval applications received for Non-FTA export (circa 200 MTPA)
- Only 7 approved to date for Non-FTA (~100 MTPA)
- Of these 7, only 4 have full FERC approval (Cheniere, Cameron, Freeport, Cove Point)
- Majority located around the LA / TX border
- Bechtel and CBI are currently dominating this market



Canada

- 10 projects with export approval (totaling over 100 MTPA)
- ▶ 9 of the 10 are in BC
- Only 2 have Environmental Approval (Kitimat & Pieridae)
- All are "greenfield" facilities
- Of the 10, FID due this year for 2 of them (Kitimat & Pacific North West LNG)
- Four are in FEED and the remaining 4 are in earlier stages of development

49 LNG Projects proposed or approved in the region

CH-IV (based in Baltimore and Houston), acquired by Clough in 2014, recently secured:

- the owner's contract for engineer for the engineering, procurement and construction (EPC) phase of the Magnolia LNG Project in the US; and
- managing the development of the formal Federal Energy Regulatory Commission (FERC) application, including detailed engineering and design, for Freeport LNG's Train 4 at the Quintana Island Facility

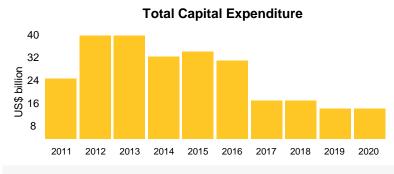


GROWTH MARKET – AUSTRALIAN & PNG BROWNFIELDS

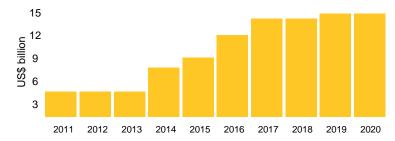


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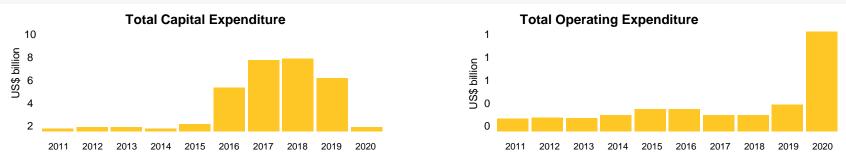




Total Operating Expenditure



PNG



Australian outsourced operations support work to increase from \$1.3 billion in 2014, to \$5 billion by 2020.

Long term sustainable operations support work expected through to 2040.

Long term growth in capital expansion work expected through to 2040.



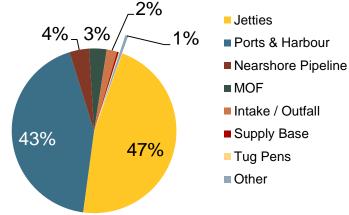
OPPORTUNITIES



Global Marine

Product	A\$
Jetties	\$4,751M
Ports & Harbour	\$4,390M
Nearshore Pipeline	\$392M
MOF	\$350M
Intake / Outfall	\$210M
Supply Base	\$33M
Tug Pens	\$13M
Other	\$60M

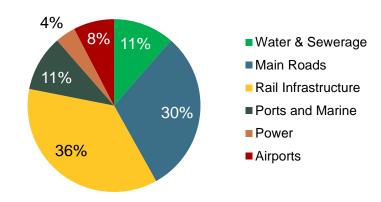
Expected Marine Spend by Product (\$M)



Australian Infrastructure

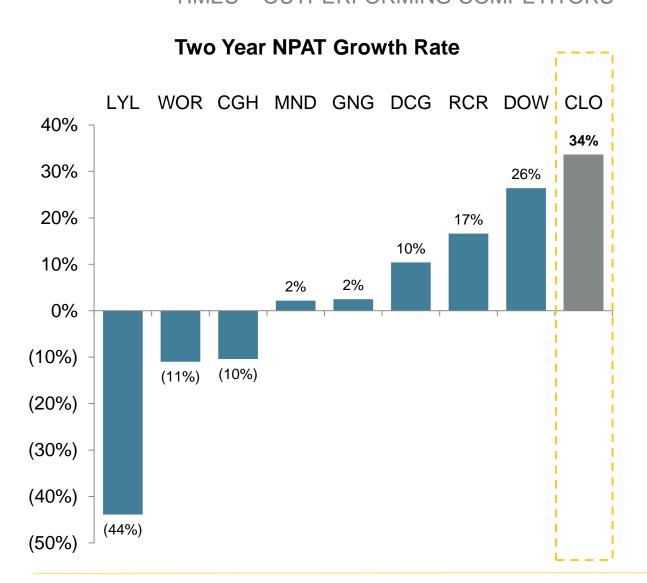
Sectors	Expenditure 2015 to 2019
Water & Sewerage	\$12b
Main Roads	\$32b
Rail Infrastructure	\$38b
Ports and Marine	\$11b
Power	\$4b
Airports	\$8b

Expected Infrastructure Spend by Sector (\$B)





BENCHMARK PERFORMANCE STAYING STRONG THROUGH TURBULENT TIMES – OUTPERFORMING COMPETITORS





- Clough delivered robust H1 result in turbulent market conditions
- Continued strong performance against industry peer group
- Business structured to deliver results in a challenging market – commissioning will still be in demand
- Well positioned to take advantage of client relationships and market conditions – organic and acquisition opportunities





7 STRATEGIC IMPERATIVES



7 Strategic Imperatives

Strategic themes

- Market diversification into complimentary markets
- Geographic diversification into international markets
- Cost structures commensurate with company revenue and earnings profile

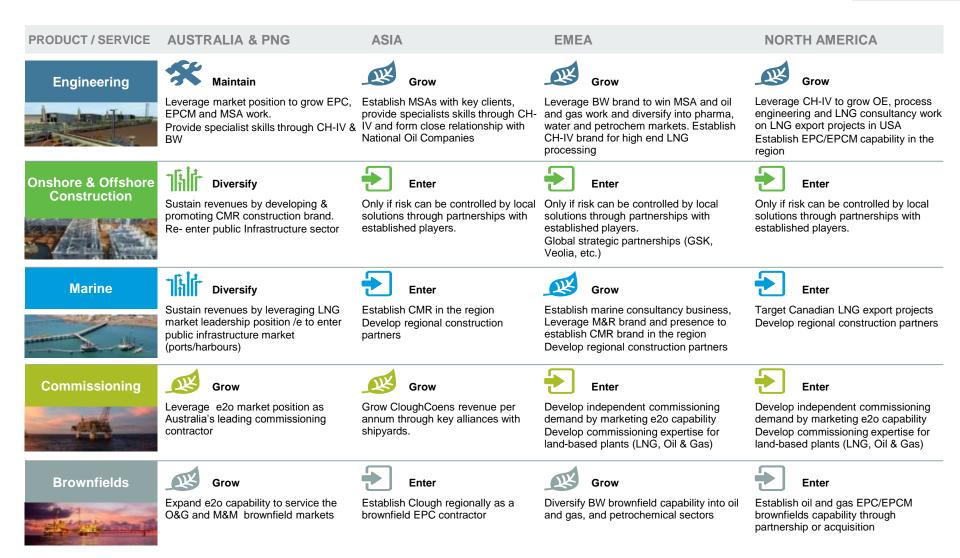
1. 2.	Build project management capability and bench strength Implement systems and technology to enable reliable and efficient project execution	Business Capability	
3.	Build global oil & gas EPC & EPCM products and services into a \$1 billion revenue business	Global Oil and	
4.	Build global oil & gas commissioning and brownfields business into a \$600m revenue business	Gas Product Growth	
5.	Build jetties and terminals into a global \$500m+ revenue. business		
6.	Enter and develop a water, power and infrastructure business that delivers \$700m in revenue per annum	Diversification	
7.	Sustainably reduce overhead to less than 3.5% of revenue	Cost Efficiency	



STRATEGY SNAPSHOT



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VALUES DRIVEN PRODUCTS & SERVICES



ZERO HARM

We work sustainably and keep each other safe. Our goal is Zero Harm to our people, the environment and the communities in which we work.

PERFORMANCE

We take accountability for our performance and stretch ourselves to achieve our potential. We collaborate effectively to deliver business success.

PRODUCTIVITY

We strive for superior productivity through **excellence in project execution, cost efficiency, planning and discipline**. Our aim is to become the industry performance leader in each sector we operate.

🕈 CLIENT FOCUS

We understand our clients' needs and build strong winwin relationships that **add** real value to our clients' operations.

垫 INTEGRITY

We act with **honesty and integrity**. We have the courage to do the right thing.

INNOVATION

We apply innovation to solve complex problems and adapt to the changing needs of our industry. We utilise **leading** edge technology, processes, systems and ideas to create and maintain a competitive advantage.

Our values drive the programs we put in place to achieve competitive differentiation





PRODUCT & SERVICE INNOVATION

INITIATIVES TO IMPROVE CLIENT VALUE & SUPPORT THE COMMUNITY



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MAP

Innovative Major Accident Prevention program that brings the rigour of offshore safety cases to the onshore construction environment.



LNG Fuel

Reduces cost and emissions for mining clients by converting their natural gas to LNG and delivering this to the mine site for heavy haul vehicle and power use



ClearView

An assurance program and proprietary daily reporting software that enables early detection and intervention on potential productivity issues



Cloud based Engineering

Enabling workshare across the platforms global network of engineering and operating centres through innovative Cloud technology



Project Manager Academy

A program developed in collaboration with Stanford University to create the best project managers in the industry



Clough Foundation

Clough's Charitable Trust to provide financial support to charities across six CSR pillars – Children and Youth, Education, Arts, Indigenous, Empowering Women and Healthy Communities



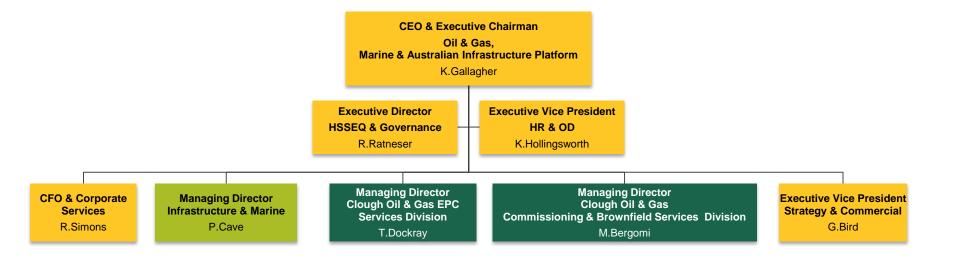
ORGANISATION DESIGN



M&R Corporate Services

- M&R Marine & Australian Infrastructure Platform
- M&R O&G Platform

M&R Subsidiary Company



PRODUCTS AND SERVICES



SERVICES ACROSS THE PROJECT LIFECYCLE





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ENGINEERING & EPCM



THE FULL SPECTRUM OF ENGINEERING SERVICES pursuit of excellence

Capabilities include:

- Concept Evaluation
- Regulatory Approvals
- 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
- Electric Controls and Instrumentation (EC&I)







KEY PROJECTS



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FPSO CLOV Project, Angola, Africa

E&I design, manufacture and install the water injection Control System for Veolia



Magnolia LNG Project – Owners Engineering Services, Louisiana, USA

CH-IV \$15m Owners Engineer contract to provide technical and project execution support to oversee the EPC contractor



Freeport LNG – Independent Engineer & FERC Approvals. Texas, USA

CH-IV \$15m FERC Feed contract for Train IV approvals on the Freeport LNG Project. Provide technical and project.



Chevron Gorgon Project, Western Australia

\$2 billion EPCM, as part of KJVG, for all downstream facilities on the Gorgon Project.



Ichthys Integrated Project Management Services, Northern Territory

\$500m Integrated Project Management Services contract for EPC, commissioning, transport, and offshore hook-up of the Central Processing Facility and FPSO.



Arrow Upstream FEED, Queensland

FEED for the full upstream development for Arrow CSG to LNG development.



ONSHORE & OFFSHORE CONSTRUCTION EPC, D&C OR CONSTRUCT-ONLY SERVICES



Capabilities include:

- Process Facilities
- Power Generation
- Compression Facilities
- Pipelines
- Water and Waste Water Facilities
- Civil Infrastructure
- Roads and Bridges
- Camps
- Fabrication
- Control Systems

Key Projects



CSBP Ammonium Nitrate/Nitric Acid Plant Number 3, Western Australia

Project management, EPC and pre-commissioning



Santos K128 Upstream Facilities, Queensland Construction of more than 400 kilometres of gas and water pipelines, compression facilities, and associated infrastructure



ExxonMobil PNG LNG Gas Conditioning Plant / Upstream Infrastructure, PNG

EPC for the gas conditioning plant, and construction of critical upstream infrastructure.

ExonMobil Santos I bhpbilliton





NEAR SHORE MARINE



THE MARKET LEADER IN MARINE DESIGN AND CONSTRUCT SERVICES

Capabilities include:

- Import and Export Structures
- Jetty Topsides
- Ports and Port Development
- Quay Walls
- MOFs
- Regasification Terminals
- Berthing Structures, Quay Walls and Breakwaters
- Near Shore Pipelines
- Tug Pens
- Supply Bases
- Marine Engineering

Key Projects



FMG Anderson Point Facility (AP5) Design and construction of a 306-metre long wharf extension



Chevron Wheatstone Project LNG Jetty Design and construction of a 1.2 kilometre jetty



Ichthys Project LNG Jetty

Design and construction of two separate vessel loadout berths, one for LNG carriers and a second for LPG, in addition to a MOF



JKC AUSTRALIA LNG PTY UTD



COMMISSIONING AN ATTRACTIVE ALTERNATIVE TO TRADITIONAL COMMISSIONING MODELS

Key Projects



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Commissioning Services:

- Completion Services
- Hook-up Services
- Onshore and Offshore Precommissioning and Commissioning
- Supply of Technical Trades
- Hazardous Area Inspection
- Asian Fabrication Yard Support



Chevron Wheatstone HUC, Western Australia

Pre-commissioning, commissioning of float over deck systems, offshore hook-up, and start-up assistance.



APLNG Commissioning Management Services, Queensland

Commissioning, structural design and implementation of (CCMS).



Gladstone LNG Commissioning Management Services, Queensland

Commissioning management services for the upstream field development,

Chevron







BROWNFIELDS ASSET OPERATIONS, MAINTENANCE AND OPTIMISATION SOLUTIONS



Capabilities include:

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

Key Projects



Conoco Philips Bayu-Undan Operations and Maintenance, Northern Territory

Operations and maintenance services for Bayu-Undan facilities



Oil Search Kumul Terminal Rejuvenation Project, PNG

Construction management for the rejuvenation of the Kumul Terminal,



ENI Blacktip, Northern Territory

Trades and labour to support routine and campaign maintenance and supporting services





GLOBAL CENTRES OF EXCELLENCE



GLOBAL CENTRES OF EXCELLENCE

A GLOBAL NETWORK OF ENGINEERING AND OPERATING CENTERS FOCUSED ON SPECIALIST SKILLS AND SUPERIOR VALUE



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BOOTH WELSH FULL LIFECYCLE SERVICES FOR CONTROL SYSTEMS



Integrated Engineering Services

- Clough's centre of excellence for electrical, instrumentation and automation design.
- Market leaders in control system design and delivery.
- Full spectrum of in-house control system services - concept and feasibility studies, design, build, installation, commissioning, longterm monitoring, maintenance and asset management services
- Servicing the oil & gas, pharmaceuticals, power generation, petrochemical and food and beverage sectors.





CH-IV A SIGNIFICANTLY STRENGTHENED LNG SERVICE

- US LNG engineering and consulting specialist
- Provides the full spectrum of LNG consulting and design services from feasibility through to operation
- Focus on protecting the developer's investments across the entire project cycle
- Worked on nearly every LNG project filed for permit in the US in recent years
- Clough & CH-IV partnership leverages complementary skills and synergies across the entire LNG spectrum







CMR MARINE





INNOVATIVE SYSTEMS & TECHNOLOGY PRODUCTIVITY INITIATIVES

TIVITY IVES

EPC







- Provides an independent commissioning solution across the entire project lifecycle
- Plans and integrates commissioning requirements throughout the engineering, construction, start up and handover phases of the project





ExonMobil Santos





CLOUGHCOENS



- 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 in Korean & Chinese fabrication yards.
- Global resources that hook up and commission projects in their final location – database of 6000 personnel in Asia and Australia
- Track record in the delivery of commissioning projects in Australia, Korea and China







CLOUGH AMEC



Established in 2004

- Maintenance, shutdown and turnaround services for operating oil and gas assets in Australia and PNG.
- Clough AMEC's services combine global experience and resources with superior local project delivery experience in engineering and maintenance delivery.
- Draws on size and strength o parents to quickly mobilise tailored project teams

















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29 June 2015

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