

#### **ASX RELEASE**

ASX Code: IRH

16 June 2009

ASX Limited Exchange Centre 20 Bridge Street SYDNEY NSW 2000

#### **CLEAN GLOBAL ENERGY PRESENTATION**

Dear Sir/Madam

Please find attached a presentation currently being presented to potential investors by the Directors of International Resource Holdings Limited and Clean Global Energy Pty Ltd.

Yours faithfully INTERNATIONAL RESOURCE HOLDINGS LIMITED

SCOTT DOUGLAS EXECUTIVE DIRECTOR



## "A Global Energy Alternative"

Corporate Presentation June 2009



#### Disclaimer



Certain statements contained in this presentation, including information as to the future financial or operating performance of Clean Global Energy Pty Limited ("CGE") and International Resource Holdings Limited ("IRH") and its projects, are forward looking statements.

Such forward looking statements may include, among other things, statements regarding targets, estimates and assumptions in respect of mineral reserves and mineral resources and anticipated grades and recovery rates, production and prices, operating costs and results, capital expenditures, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions; are necessarily based upon a number of estimates and assumptions that, while considered reasonable by CGE/IRH, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies; and involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward looking statements.

CGE /IRH disclaims any intent or obligation to update publicly any forward looking statements, whether as a result of new information, future events or results or otherwise. The words "believe", "expect", "anticipate", "indicate", "contemplate", "target", "plan", "intends", "continue", "budget", "estimate", "may", "will", "schedule" and similar expressions identify forward looking statements.

All forward looking statements made in this presentation are qualified by the foregoing cautionary statements. Investors are cautioned that forward looking statements are not guarantees of future performance and accordingly investors are cautioned not to put undue reliance on forward looking statements due to the inherent uncertainty therein.

#### **Attribution Statement**



#### I, Warwick Smyth confirm that:

I have read and understood the requirements of the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves ("2004 JORC Code").

I am a Competent Person as defined by the 2004 JORC Code, having five years experience which is relevant to the style of mineralisation and type of deposit described in the Report, and to the activity for which I am accepting responsibility.

I am a Member or Fellow of *The Australasian Institute of Mining and Metallurgy* or the *Australian Institute of Geoscientists* or a *'Recognised Overseas Professional Organisation'* ("ROPO") included in a list promulgated by ASX from time to time.

I have reviewed the presentation to which this Consent Statement applies.

I am a consultant working for **GeoConsult Pty Ltd** and have been engaged by **Clean Global Energy** to prepare the documentation for the Queensland tenements on which the presentation is based, for the month ended June 2009.

I verify that the presentation is based on and fairly and accurately reflects in the form and context in which it appears, the information in my supporting documentation relating to Exploration Results, Mineral Resources and/or Ore Reserves.

## **CGE Strategy & Focus**



- CGE is focused on becoming a significant producer in the alternate energy sector
- CGE will achieve this by converting its 100% owned conventional and stranded potential coal resources into economical, clean energy known as "Syngas". This Syngas can be converted into ultra clean fuels, power and other chemicals
- CGE can achieve the production of a low cost environmentally friendly Syngas utilising its proprietary proven technology through the process known as Underground Coal Gasification ("UCG")
- Through strategic technological partnerships CGE will be positioned to produce a diversified downstream range of marketable products

## Company Highlights



- All coal tenements 100% owned
- Primary coal tenements granted and unencumbered (no overlapping issues)
- Proximity to major infrastructure
- Proven proprietary UCG extraction technology
- Experienced board and management with a history of success in energy
- 12 Month target = 1 2 Petajoule pilot plant
- 24 Month target = 4 5 Petajoule commercial plant
- Environmentally friendly low cost clean energy solution

## Proprietary Technology



- Proven proprietary coal extraction technology exclusive to CGE enabling low cost extraction of sub-economic coal deposits in the form of Syngas
- Developed over 20 years by CGE technical Director Dr. Michael Green –
   recognised globally as a leading UCG expert with both the practical and technical capabilities to complete commercial UCG projects
- O Director of the internationally recognised €17m European trial of underground in-seam gasification in Spain (1996-1999) successfully proving the efficiency and controllability of the UCG process using CRIP technology. Dr Green has continued

to advance the CRIP technology which he is currently implementing in commercial projects throughout the UK and Europe

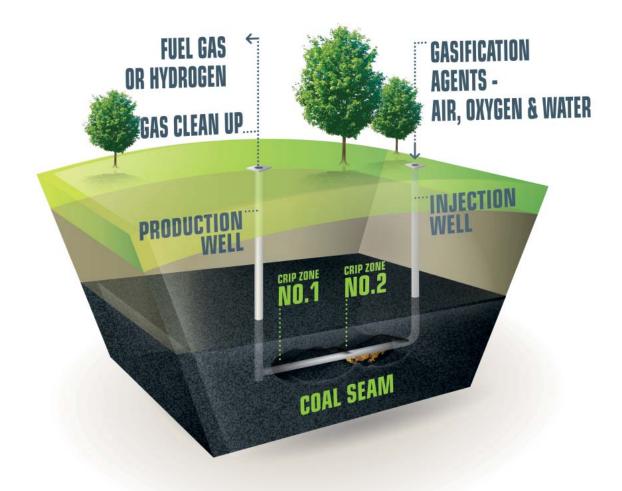
 Dr Green has 32 years experience in energy related engineering research, and holds a PhD in Chemical Engineering from Imperial College, London

Dr. Michael Green

## CGE – CRIP Technology Process



CGE utilises the latest proven technology in its UCG process - single inline Controlled Retractable Injection
 Point (CRIP) wells



The single inline CRIP well process provides greater control, efficiency and cost savings compared with standard vertical wells, slant wells and parallel CRIP wells currently being used by other UCG companies.

## **Board and Management**



#### Mr John Harkins - Executive Chairman & Managing Director

Prior to Mr Harkins joining the Board of CGE, he was Senior Vice President of a US based company involved in gasification technology. Prior to moving to the US he was Executive Director/General Manager of Linc Energy Ltd, having steered that company through its successful IPO in May 2006 and the commencement of its business plan, which included the use of UCG and GTL technologies. Prior to this he was CEO of Care Super, one of Australia's largest pension funds.

#### Mr Domenic Martino – Non Executive Director

Mr. Martino was the Chief Executive Officer of Deloitte Touche Tohmatsu in Australia from 2001 to 2003. Prior to taking up this position he was the Managing Partner of Deloitte Touche Tohmatsu's New South Wales operations from 1998 to 2001. Mr Martino is a Director and Non-Executive Chairman of Australasian Resources Ltd, a Director and Chairman of Computercorp Limited, and a director of AIM/TSX listed Gladstone Pacific Nickel Ltd. He was a founding Director and former Chairman of coal bed methane companies Sydney Gas Limited and Blue Energy Limited (formerly Energy Investments Limited). He is also a Director of Waratah Coal Limited.

#### **Dr Michael Green** – Technical Director

Dr Michael Green is an underground coal gasification specialist who has developed intellectual property, technical skills, knowledge and know how in relation to all aspects of UCG. He has 32 years experience in energy related engineering research and holds a PhD in Chemical Engineering from Imperial College, London.

#### Ms Alison Coutts – Non Executive Director

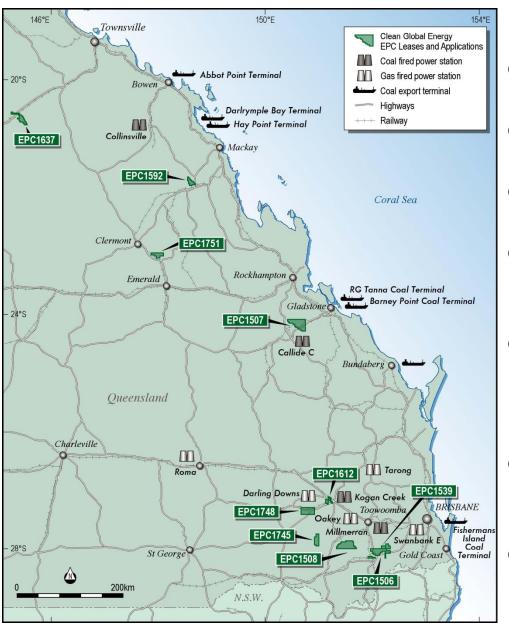
Ms Coutts has a degree in Chemical Engineering and a Masters degree in Business Administration. Ms Coutts has over 25 years experience in international engineering project management, strategic consulting and executive search. Since the mid 1990's, Ms Coutts has been involved in the financial markets in venture capital, stockbroking and investment banking.

#### Mr Paul Hubbard - Non Executive Director

Mr Hubbard holds a Bachelor of Arts and a Bachelor of Education with experience in the teaching, training, human resources and motivational sectors. Mr Hubbard was an executive with Woolworths then BHP where he was involved in training and development for a broad range of employees. Mr Hubbard established and implemented many of today's foundational corporate practices during his time with these companies.

## **Tenement Summary**





- 100% company owned
- Proximate to major infrastructure
- Historical drilling and borehole data
- Primary tenements granted with no overlap issues
- Proximate/Adjacent to major operating coal mines (Xstrata, Anglo)
- Proximate/Adjacent to major operating UCG and CGM companies
- Proximate/Adjacent to power stations

#### **Tenement Location**





EPC 1637 (Galilee Basin) is surrounded by Linc Energy and Xstrata Coal

EPC 1592 (Bowen Basin) covers the Fort Cooper coal measures

EPC 1507 (Callide Basin) sits next to Anglo's Callide Open Cut Mine and Callide Power Station and is close to Gladstone port

EPC 1612 (Clarence-Moreton Basin) is surrounded by competing UCG and CBM companies

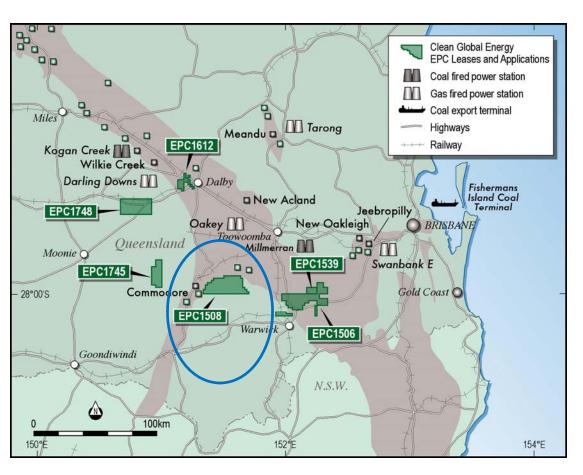
**EPC 1508** (Clarence-Moreton Basin) adjoins Ambre Energy's 400Mt proven resource (AXS May 08) and in close proximity to Millmerran Power Station.

EPC 1506 (Clarence-Moreton Basin) in close proximity to Millmerran Power Station.

## Project Focus – EPC 1508 Pilot Plant



#### Construction & commissioning of 1-2 Petajoule enriched air UCG Pilot Plant -12mths



- Historical drilling and borehole data
- Proximate all major infrastructure
- Proximate Millmerran Power
   Station
- Approximately 150km from City of Brisbane
- Fisherman's Island Coal
   Terminal with rail access

## Project Focus – EPC 1508 Pilot Plant



#### 12 Month Strategy

- 1. Exploration drilling coal resource goal 300-500Mt (\*)
- 2. Construction & commissioning of 1-2 Petajoule enriched air UCG Pilot Plant (Oxygen will be used to prove up gas quality for GTL)
- 3. Initiate design and engineering to expand pilot plant into a UCG commercial plant with an initial 4-5 Petajoule capacity
- 4. Initiate discussions for potential Syngas off-take

**Note (\*)** The potential coal quantity and quality is conceptual in nature due to there being insufficient information to define a coal resource in the exploration target area and it is uncertain if further exploration drilling will result in the determination of a coal resource.

## Project Focus – EPC 1508 Commercial Plant



#### 24 - 36 Month Strategy

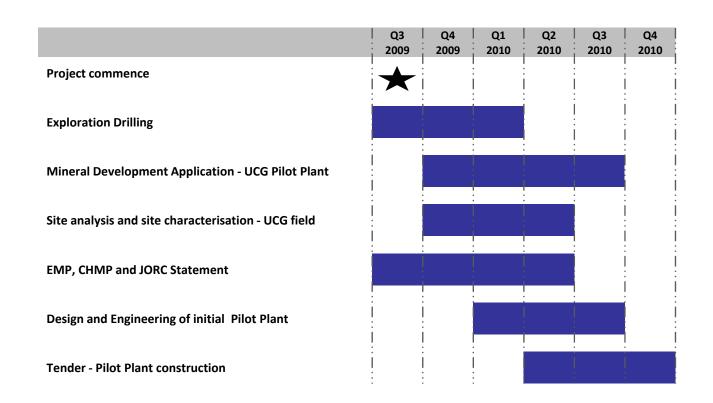
- Expansion & commercialisation of pilot plant to 4-5 Petajoule enriched air (with Oxygen capabilities) UCG commercial plant
- 2. Supply of UCG Syngas feedstock (power station supply) under off-take agreements
- 3. Initiate discussions with potential JV Partners for Gas To Liquids project
- 4. Initiate international expansion opportunities
- 5. Further exploration/expansion of resource base

# Path to Production – (indicative)



Stage 1.

Building the Capabilities – Budget Estimate \$5-6m

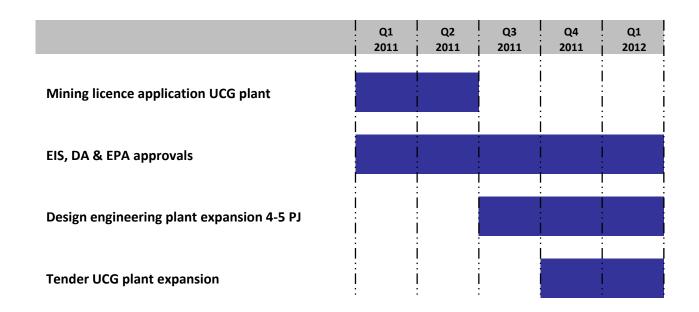


Indicative timetable and budget estimate only. Subject to potential delays and development approvals

# Path to Production – (indicative)



Stage 2.
Commissioning Pilot Plant

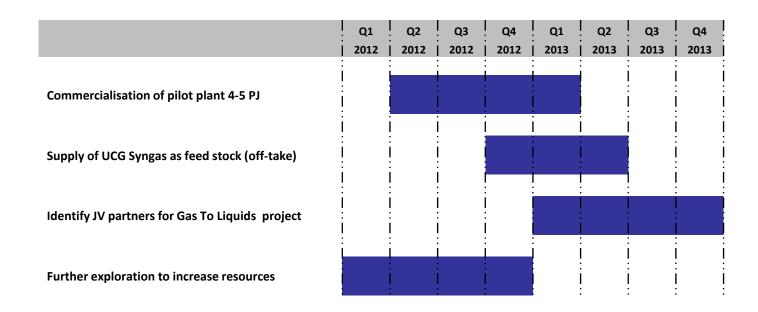


Indicative timetable and budget estimate only. Subject to potential delays and development approvals

## Path to Production – (indicative)



Stage 3.
UCG Commercialisation



Indicative timetable and budget estimate only. Subject to potential delays and development approvals

# Pro-forma capital structure - completion



SHARES			
IRH Shares currently on issue	69,861,575		
Shares to be issued			
Balance of Placement Shares - Director	6,333,333		
Conversion of Debt to Equity - Non-Related Parties	2,334,556		
Conversion of Debt to Equity - Related Parties	13,496,422		
Conversion of outstanding \$169,807 Martern Convertible Note @10%*	3,761,502		
Conversion of (\$500,000) Convertible Note	33,333,333		
Proposed 2 <sup>nd</sup> Raising \$500,000 (\$0.045)**	11,111,111		
Proposed \$5,000,000 Capital Raising at \$0.20	25,000,000		
CGE Acquisition	300,000,000		
SHARES TOTAL	465,231,832		
OPTIONS			
OPTIONS			
Options currently on Issue:	10,941,666		
\$0.10 Unlisted Options Exp. 11/2011			
\$0.15 Unlisted Options Exp. 11/2011	500,000		
\$0.20 Unlisted Options Exp. 10/2010	500,000		
\$0.25 Listed Options Exp. 08/2009	23,743,500		
\$0.25 Unlisted Options Exp. 08/2011	5,000,000		
\$0.25 Unlisted Options Exp. 11/2011	1,500,000		
Options to be issued - pre Completion:			
Balance of Placement Unlisted Options – Director	3,166,667		
OPTIONS TOTAL	45,351,833		
TOTAL CECUPITIES DOCT COMPLETION	F40 F00 //F		
TOTAL SECURITIES POST COMPLETION	510,583,665		

<sup>\*</sup>Indicative - final total subject to conversion date

<sup>\*\*</sup>subject to confirmation

#### Milestones to date



- 4 coal tenements applied for in August 2008 covering c.1500square kilometers and granted in March 2009 EPC
   1506, 1508 & 1539 in the Clarence-Moreton Coal Basin in SE Queensland and EPCA 1507 in the Callide Coal Basin in Central Queensland (August 2008 March 2009)
- Underground Coal Gasification (UCG) Technology Partnership Agreement with Dr. Michael Green, a leading world wide recognised UCG expert accredited for the successful European UCG trial in Spain 1992-1998 and further development work to 2009 (August 2008)
- John Harkins, former Director and General Manager of Linc Energy (ASX:LNC) appointed to the Board of CGE.
   (September 2008)
- Seed Capital Raising of \$A680,000 (September 2008)
- o 3 coal tenements applications covering c. 385 square kilometers EPCA 1592 in the Bowen Basin, EPCA 1612 in the Clarence-Moreton Basin and EPCA 1637 in the Galilee Basin (October November 2008)
- Alliance formed with UC based CTL Global LLC to work towards providing CGE a low cost GTL solution to produce ultra clean diesel and other fuels. (February 2009)
- O 3 Coal lease applications covering c.650 square kilometers EPCA 1745 in the Clarence Moreton Basin, EPCA 1748 in the Surat Basin and EPCA 1751 in the Bowen Basin (March 2009)
- o Merger with ASX listed IRH to achieve ASX listing (June 2009)

## Summary



- O Coal resource goal of 300-500Mt on key UCG coal tenements with other coal tenements to be determined
- O Path to production strategy Construction & commissioning of 1-2 Petajoule enriched air UCG Pilot Plant (12 months)
- O Drilling and exploration plan ready to start upon completion of IRH merger and capital raising to achieve JORC compliant resource within 6 9 months.
- O Continual exploration plan for other coal tenements over the next 3 years.
- Proven UCG technology and strong technical expertise in the area of UCG, power and GTL
- O Strong, experienced and proven management team with industry specific experience

### Annexure A

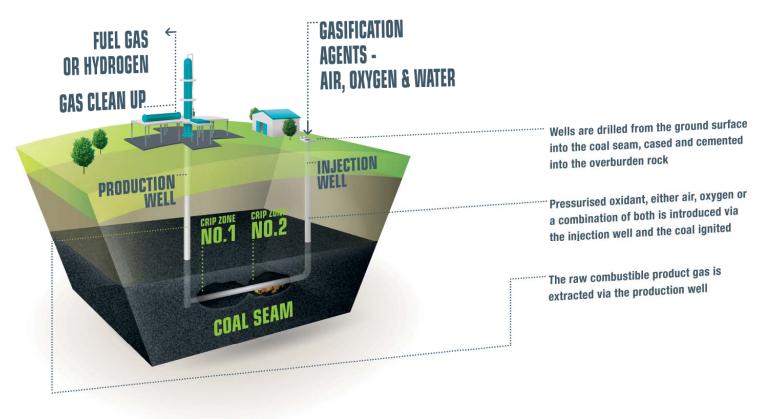


UCG Process Summary & Tenement Schedule

#### **UCG** - Process



O The UCG process involves drilling injection and production wells into the coal seam. Oxidant, heat and pressure is introduced into the injection well to commence the gasification process. The product Syngas is captured at the production well then cleaned up and CO2 separated prior to end use.



 UCG is the latest proven coal extraction method which converts coal in-situ into a cheap and environmentally friendly Syngas that is suitable as feedstock to produce ultra clean liquid fuels, power and chemicals.

#### **Environmental Performance**



 Air emissions from an IGCC power station using UCG Syngas with CO2 sequestration reduces green house gas emissions by more than 50% compared to conventional coal fired power stations.

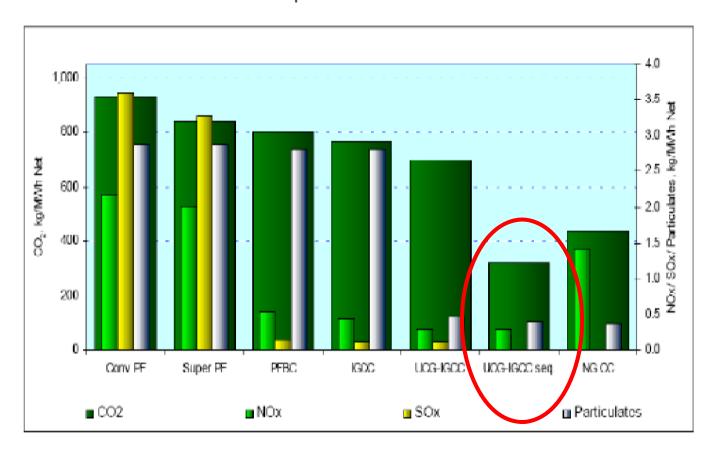


Figure 3. Air emissions from conventional fossil fuel power plants and UCG-IGCC

# **CGE Tenement Shedule**



Coal Leases	Location	Proximity	Approx, Square Km's	Expected Grant Date
EPC 1507 Biloela	23km NE of Biloela, Queensland	(Biloela Basin) sits next to Anglo's Callide Open Cut Mine and Callide Power Station	493	Granted March 09
EPC 1506 & 1539 Maryvale 1&2	28km NE of Warwick, Queensland	(Clarence/Moreton Basin) in close proximity to Millmerran Power Station.	583	Granted March 09
EPC 1508 Leyburn	21km E of Millmerran, Queensland	(Clarence/Moreton Basin) adjoins Ambre Energy's 400mt proven resource (May 08) and close to Millmerran Power Station.	429	Granted March 09
EPCA 1592 Mt Fort Cooper	120km SW of Proserpine Queensland	(Bowen Basin) intersects the Mt Fort Cooper coal measures.	118	Mid - Late 09
EPCA 1612 Dalby	20km SW of Dalby Queensland	(Surat Basin) adjoins competing UCG and CBM players.	74	Mid-Late 09
EPCA 1637 Pentland	25km SW of Pentland Queensland	(Galilee Basin) is surrounded by Linc Energy and Xstrata Coal.	192	Mid-Late 09
EPCA 1745 Western Creek	26km SW of Millmerran Queensland	(Clarence/Moreton Basin) in close proximity to Millmerran Power Station.	166	Late 09
EPCA 1748 Kumbarilla	36km SW of Dalby Queensland	(Surat Basin) adjoins competing UCG and CBM players.	336	Late 09
EPCA 1751 Capella	60km NW of Emerald Queensland	(Bowen Basin) West of Oaky Creek and German Creek mines	147	Late 09
Total of 10 Permits			2,538	



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