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Cougar Energy

The New Power in Australia.

Cleaner energy.
 Low cost energy.
 Efficient resource utilisation.







Presentation to the Australian Resources Company Showcase, Hong Kong Brad Glynne, General Manager – Corporate Finance 29 March 2010

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THE NEW POWER IN AUSTRALIA

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Cougar Energy Limited has developed an initial financial model of the Kingaroy power station project, which will undergo review during a banking feasibility study, and is therefore subject to change. The model currently indicates that the Kingaroy is capable of producing free cash flows after assumed debt servicing. The Board and senior management will review and approve the final version of the financial model during the bankable feasibility study.

This Presentation contains forward-looking statements regarding future events and the future financial performance of Cougar Energy Limited. These forward-looking statements are not guarantees or predictions of future performance, and involve known and unknown risks, uncertainties and other factors, many of which are beyond the control of Cougar Energy Limited, and which may cause actual results to differ materially from those expressed in the statements contained in this Presentation. The development of and timetable for the construction and commissioning of Cougar Energy Limited's proposed power plant at Kingaroy is dependent on the confirmation of Queensland Government approval of underground coal gasification technology and Cougar Energy Limited's program of commercial development.

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The information as it relates to coal resources in this Presentation is based on information compiled by Mr. Garry Leblang who is a Fellow of the Australian Institute of Mining and Metallurgy. Mr. Leblang is employed by Himap Pty Ltd., trading as Coal Search Consultants. Mr. Leblang has in excess of five years experience, and therefore sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity which he is undertaking, to qualify as a Competent Person as defined in the 2004 edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Leblang consents to the use of the resource figures in the form and context in which they appear in this Presentation.

Company transformation

Long life projects

Low impact on environment

Lower carbon energy source

Commercialisation

Untapped energy

Alternative energy

Energy substitution

Smarter way to use coal

Cost competitive electricity

Base load power

Robust economics

Proven technology

Consistent strategy

Genuine scale

Low cost industrial gas

Experienced UCG management











COMPANY OVERVIEW





Cougar Energy Limited will become Australia's Underground Coal Gasification (UCG) leader ...

... it is focused on the commercial development of reliable, low cost and efficient base load power from proven coal gasification technology.



- COUGAR ENERGY
- 919,127,810 million shares on issue (30.8 MM staff options)
- 919,127,810 million shape
 Market capitalisation
 Average daily liquidity
 3 April 30 June 2009
 1 July 30 September
 1 October 31 December
 1 January 23 March Market capitalisation AUD 110.3 MM

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3 April - 30 June 2009: 6.1 MM shares

1 July - 30 September 2009: 4.8 MM shares

1 October - 31 December 2009: 2.9 MM shares

1 January - 23 March 2010: 6.1 MM shares



Source: ASX Data as at 12 noon 25 March 2010

Market capitalisation 3 April 2009 - 25 March 2010 => + 115 % (incl. 61% dilution)

Holdings

Management -12%

Institutions - 9%

Top 20 - 32%

Open & liquid register



COUGAR ENERGY'S FLAGSHIP PROJECT PROGRESSED TO "IGNITION" ON 15 MARCH 2010

- Gas production commenced
- Australia's first Underground Coal Gasification (UCG) project of genuine commercial scale (400 MW gross)
- At completion power for 400,000 homes for 30 years
- · Using the world's leading commercial **UCG** technology



Cougar Energy's Gas Processing Plant at **Kingaroy**

Transformational Growth: Building assets for financial returns





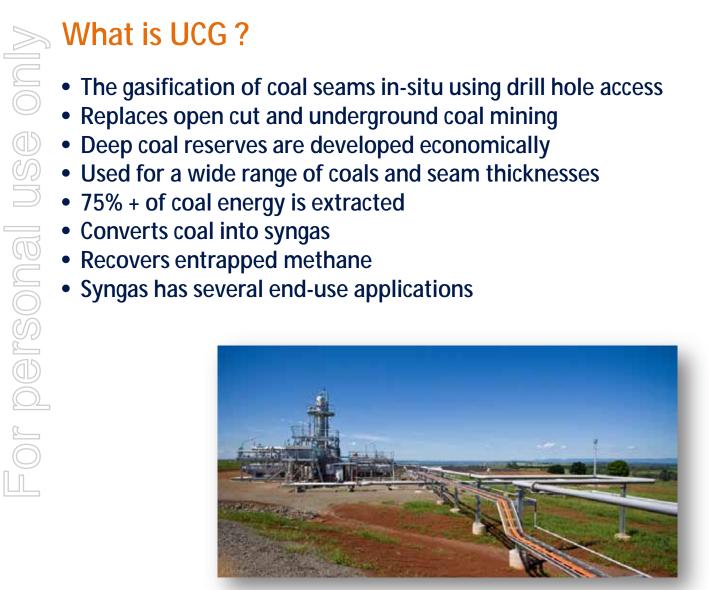
UNDERGROUND COAL GASIFICATION







What is UCG?





Why develop UCG?

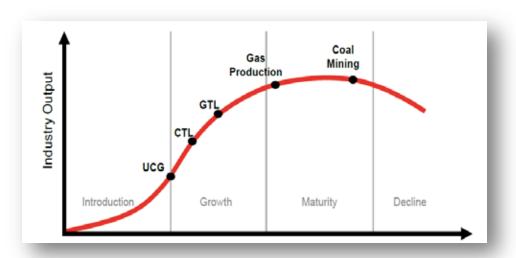
- Energy alternative to solve current challenges in energy supply/demand imbalance
 - Cleaner energy lower emissions compared to coal-fired utilities (25-40%)
 - Low cost energy cost effective feedstock (ca. 50% cost of natural gas) for multiple uses
 - Efficient utilisation of resources 15x vs. coal seam gas
 - Minimal footprint impact on environment nominal waste water, no transportation
 - Significant capex savings
- Low production costs
 - Process allows carbon separation
 - Demand for electricity to exceed new supply in Australia, particularly in Queensland: rising use of gas for energy (2.5x faster than final energy consumption)
 - Sustainable source of base load power
 - Affordable energy for the Australian domestic market
 - Adds security of energy supply to local markets

Smarter use of coal

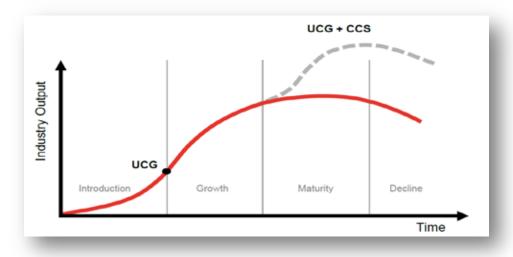




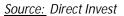
UCG is at the beginning of the growth cycle



Proven energy technology with access to abundant coal resources ...



... stronger outcomes when economic carbon capture and sequestration technologies are introduced.





Comparison UCG to CSG (Coal Seam Gas or Coal Seam Methane) or personal use only

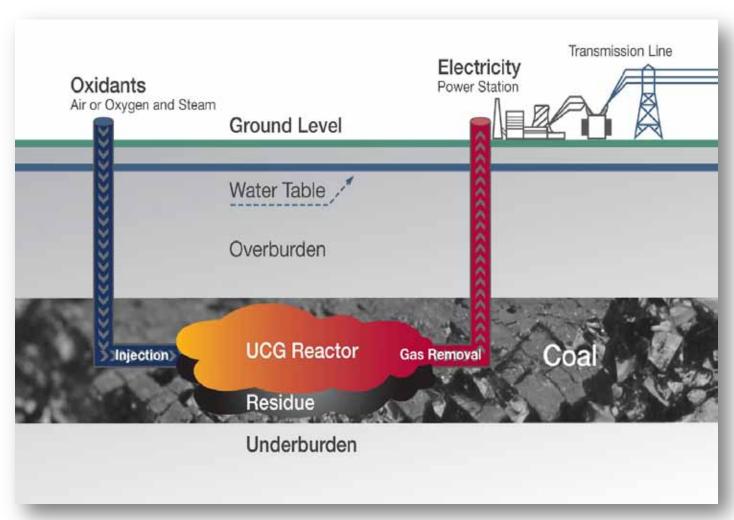
	<u>UCG</u>	<u>CSG</u>	
Energy recovery	75% +	5% +	
Ongoing wells p.a.	50-75 for ca. 25 PJ	ca. 15 x more than UCG	
Water treatment	minimal	challenge	
Gas transportation	no	yes	
Gas cost of production	AUD 1.98 - 2.14 / GJ	???	

UCG process is more cost effective than CSG



TECHNOLOGY





Proven commercial UCG technology: Ergo Exergy Technologies Inc.



- Based in Montreal, Canada
- Management of Cougar Energy & Ergo Exergy Technologies in partnership since 1996
- Ergo Exergy team headed by Dr Michael Blinderman developing the world's major UCG projects:
 - Angren, Uzbekistan commercial power generation for 40+ years
 - Chinchilla, Queensland successful pilot burn in 1999-2002 with Cougar Energy's CEO Dr. Len Walker
 - Majuba, South Africa pilot burn since 2007, commercial power designed to 2,100 MW for <u>Eskom</u> – national electricity company
 - Alberta, Canada proposed project for <u>Laurus Energy</u> combining power generation, chemical manufacture and use of CO₂ for enhanced oil and gas recovery
 - New Zealand proposed power generation project for <u>Solid Energy</u>
 - Kingaroy, Queensland with Cougar Energy under a licence agreement including technology know-how transfer and on-going servicing arrangements





COUGAR ENERGY STRATEGY



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- 1. Shift to lower carbon environment
- 2. Growing population in Australia
 - 3. Future supply/demand imbalance for energy
 - 4. Rising electricity prices

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- 5. Gas as preferred feedstock
- 6. Security of supply uncertainty





Drogroce

COUGAR ENERGY

Since the founding of the Company, management has pursued a consistent development strategy to commercialise UCG

Building a superior business base

Creating a pathway to viable future growth

	<u>Progress</u>	
Technology: identify and secure best commercial		
UCG technology under licence		
Resources: identify commercial UCG tenements	R	
Permitting: obtain exploration and development		
licences (no overlapping tenements)		
Feasibility: conduct technical and financial		
feasibility work		
End markets: select principal end market and determine		
access - electricity generation		
Gas production: "ignition" of pilot plant at Kingaroy		
Build commercial assets: construct power station		
at Kingaroy	WIP	
Establish growth story: replicate Kingaroy flagship		
development at other sites		
Diversify end markets: investigate economics of other		
UCG applications		

Phased development towards positive cash flows



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The Cougar Energy difference in UCG development

- Uses the only proven commercial UCG technology
- Targets maximum depth of 400 metres for commercially viable projects
- Focus is on long life projects (30+ years) with bankable economics
- JORC resource drilling programs principally undertaken on an "as needs" basis to support project planning for the next 10 years
- Management and technology providers with 25 years + experience in UCG
- Meeting milestone deadlines
- Modular design of project facilities
- Strategy of genuine monetisation/commercialisation of resources to a scale attractive to future joint venture and alliance partners







COUGAR ENERGY

THE NEW POWER IN AUSTRALIA

Cougar Energy

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Stock symbols ASX: CXY Reuters: CXY.AX Bloomberg: CXY AU

No. of shares on 919,127,810

Current share price ΔUD 0.145

Market capitalisation AUD 133.3 million

16 March 2010

UNDERGROUND COAL GASIFICATION MILESTONE AS IGNITION COMMENCES SUCCESSFULLY AT COUGAR ENERGY'S FLAGSHIP KINGAROY PLANT

- Successful ignition of coal seam at Cougar Energy's Kingaroy
- Syngas production has commenced
- Syngas successfully passed through the pilot gas processing plant with main flare operating
- Pre-feasibility study for Stage 1 (200 MW) power plant well
- Power generation options for early cash flows being evaluated

Cougar Energy Limited (ASX: CXY) is pleased to report a significant milestone in the development of Australia's Underground Coal Gasification (UCG) industry with the successful ignition of the Kunioon coal seam at the Company's flagship Kingaroy plant in central Queensland.

The production of syngas has started. It is being processed by the Company's gas processing plant on site and the main flare has been ignited at 11.37 pm last evening.

Having achieved successful ignition using air injection, Cougar Energy staff and the Company's technology partners (Ergo Exergy Technologies Inc., led by Dr Michael Blinderman, currently on site) will ramp the gasification process up over the coming weeks, prior to the undertaking of a series of

trials to test both underground and surface operations under a range of conditions.

Extensive data will be collected over a minimum period of six months for inclusion in the pre-feasibility study currently being prepared by Cougar staff, and for the bank feasibility study which will follow.

Excerpt of announcement to the ASX on 16 March 2010





Kingaroy

- Complete test burn at pilot plant
- Complete pre-feasibility study
- Install small generation plant
- Generate own electricity for site and for sale to grid
- Complete bankable feasibility study
- Approval from Queensland Government Scientific Committee
- Commence capital raising for construction of Power Plant

Wandoan

- Complete drilling program to upgrade reported JORC resource
- Commence work on pilot plant (replicating Kingaroy)
- Determine potential other end-uses for syngas from site

- **South Gippsland** Sign Joint Venture Agreement with Ignite Resources
 - Complete drilling program to report JORC resource

Delivering transformational growth via a clear road map



ENERGY SUPPLY & SECURITY



The need for cleaner and lower cost energy

- Rising tariffs price shocks for consumers
- Strong population growth trends
- Anticipated housing shortages from 2020 drives infrastructure and construction spending
- Predicted future supply shortfall
- Renewable energy legislation and incentives
- Future carbon and environmental compliance costs
- Financing risk after the "GFC"

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• Continued dependence on coal for low cost base load energy (75-80% in Australia)





- Australia's energy and electricity consumption continues to grow electricity + 34% in last 10 years to 2006-7
- ABARE * forecasts energy consumption will grow 1.4% p.a. (35% for the period) to 2029-30
- Queensland projected to become Australia's largest primary energy consuming State by 2017-18
- Queensland's primary energy consumption forecast to grow 44% to 2029-30 (NSW + 26%, Victoria + 9%):
 - growing population (especially south east Queensland)
 - expanding resources sector and export sectors

^{*} ABARE (Australian Bureau of Agricultural and Economics Research) (government agency)

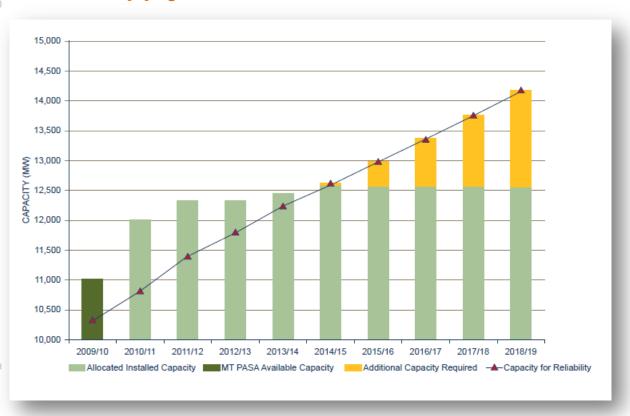
[&]quot;Australian Energy: national and state projections to 2029-30" December 2007

[&]quot;Electricity generation Major developments - April 2009 listing"

[&]quot;Australian energy projections to 2029-30" March 2010

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AEMO supply-demand outlook for Queensland



 Forecasts that Queensland will experience reserve deficits from 2014/15

<u>Source:</u> Australian Energy Market Operator "Electricity Statement of Opportunities For the National Electricity Market" Executive Briefing 2009

Queensland Summer Outlook page 7



Higher electricity prices

- Announced increases to electricity generation capacity cannot make up forecasted shortfalls of supply
- Not all anticipated surplus ramp-up gas from CSG projects in Queensland will find way to electricity generation end use
- Electricity prices to rise as supply shortfalls materialise in 2013-14
- Regulatory price rise recommendations (Queensland, New South Wales, Western Australia) already factoring in carbon costs – allows pass-through from generators to end users
- Cougar Energy will benefit further "windfall" margin with lower emissions intensity than coal-fired power stations
- Queensland and Western Australian Governments are putting measures to secure domestic gas supplies in place for future use
- Cougar Energy's UCG gas production is dedicated to end-use for domestic markets and can assist to secure forecast future shortfalls

AUSTRALIAN PROJECTS





Kingaroy, Queensland (CXY: 100%)

- Current JORC resource = **73 Million tonnes** (28 million indicated and 45 million inferred as announced June 2008)
- Resource expansion planned
- Commercial project underway

Wandoan, Queensland (CXY: 100%)

- Current JORC resource = 341 Million tonnes (34 million indicated and 307 million inferred as announced August 2009)
- Commercial project in planning

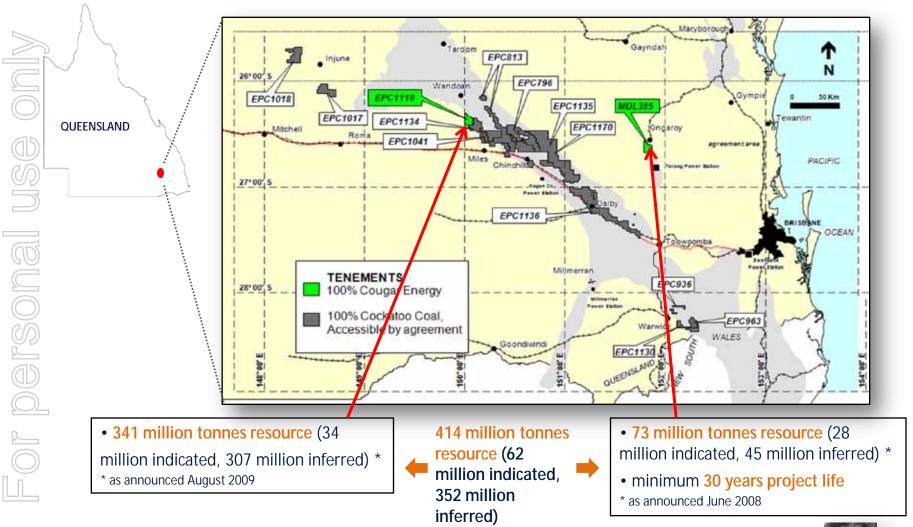
South Gippsland, Victoria

- Exploration target = 800-1,200 Million tonnes
- Joint venture terms sheet signed

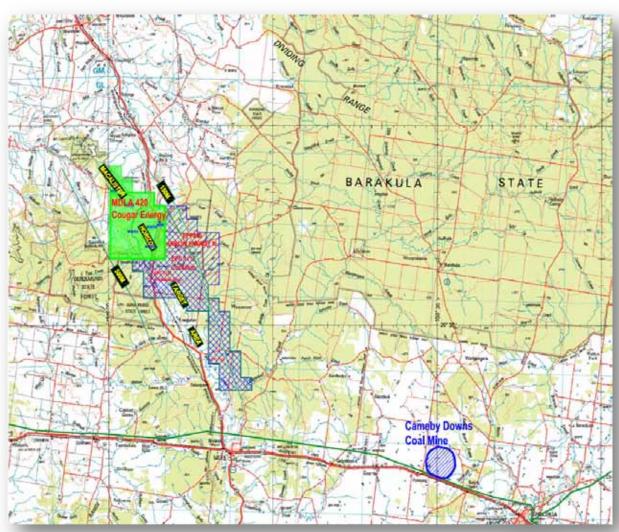
§ The exploration target is based on estimates from previous drilling programs – these estimates cannot be classified as mineral resources or ore reserves: the potential quantity and grade is conceptual in nature and there has been insufficient exploration to define a mineral resource – it is uncertain if further exploration will result in the determination of a mineral resource.

Abundant resources for long-life projects





- Located in the coal rich Surat Basin in Queensland
- Cougar Energy controls
 EPC 1118 65 km²
- MDLA 420 covers 58 km²
 free from overlying petroleum tenure
- New drilling program scheduled to expand on 341 million tonnes resource
- Mixed project development planned including power, methane and liquids production
- Preliminary project evaluation in progress



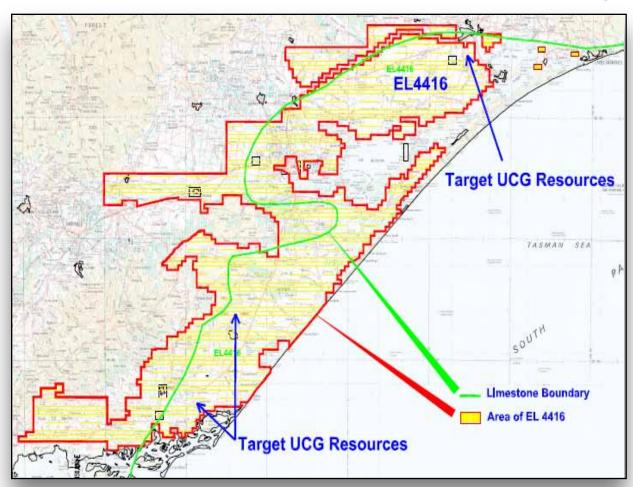
Significant multiple project use upside commencing with electricity



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Cougar Energy has the only UCG project under development in Victoria



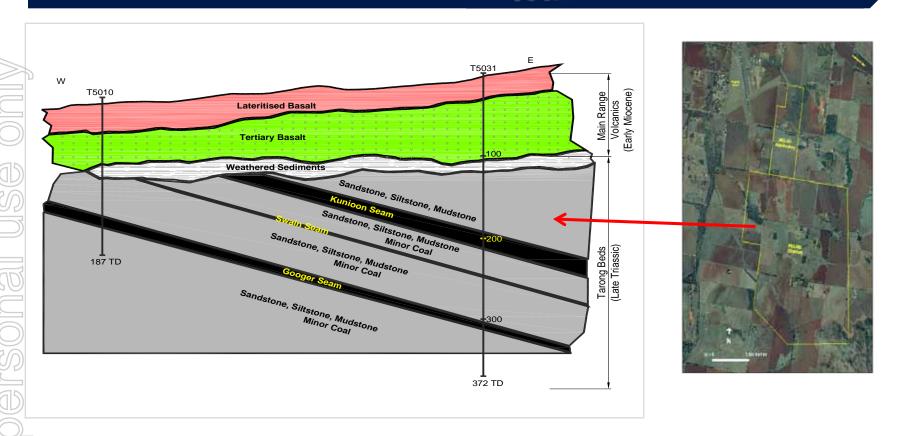




- Joint Venture Agreement being finalised with Ignite Energy Resources on EL 4416 (Terms Sheet signed)
- Target coal seam identified in three "Designated Areas" (419 square kilometres)
- Significant drilling and in situ testing to follow mid 2010
- Exploration target: 800 1,200 million tonnes for multiple end-use products (see note on page 28)
- Potential power project has advantages of:
 - 40% reduction in CO₂ emissions
 - Modular construction encourages <u>decentralised power plants</u>
- Victoria's power generated 80% from brown coals greenhouse gas emissions increased nearly 10% in last 10 years despite introduction of renewable energy programs

KINGAROY





- Project located ten kilometres south of township
- No overlaying tenement issues under the Petroleum and Gas Act
- Coal contained in two seams depths of 130 –300 metres with suitable thicknesses
- Resource life 30 years: further drilling scheduled to the north of the tenement



Kingaroy is Cougar Energy's flagship project

The significance of the successful "ignition" in March 2010

- Cougar Energy is put on the global map for new energy technologies
- It takes the Company past the pioneer stage to asset development phase
- The "ignition" is testament to the world's leading commercial UCG technology Ergo Exergy Technologies Inc.
 This is the second successful "ignition" by Len Walker and Michael Blinderman
 Cougar Energy undergoes transformational growth after reaching several operational milestones in 2000 and • The "ignition" is testament to the world's leading commercial UCG technology of

 - operational milestones in 2009-2010
 - Australia continues to lead the world in genuine UCG commercialisation development
 - UCG becomes a genuine alternative to coal seam gas processes



Phased de-risking of the project continues

- Resource/exploration JORC resource
 - Title no overlapping tenements
 - Life of project 30 years +
 - Technology proven with "ignition"
 - Production swift ramp-up, no phasing issues
 - Operations construction deadlines met
- Operations construction modular design
 Equipment off-the-rack, product warranties

 strict FPA controls, Chinchilla • Environmental – strict EPA controls, Chinchilla experience
 - Sales/Price off-take agreements to be negotiated
 - Funding financial model, conservative leverage
 - Licensing/regulatory working within UCG Policy (Q'land Govt.)
 - Technology/IP licence with Ergo Exergy, know-how transfer
 - Key man risk strong, versatile management team assembled
- Local community Kingaroy Community Consultative Committee



Hitting milestones

NEXT STEPS AT KINGAROY



- Pre-feasibility study February through June 2010
- Pre-feasibility work investigating bringing forward cash flow generation:
 - 1. Potential for small scale power generation during pre-production phase (sell power into grid on a cash flow positive basis) and
 - 2. Configuring power station into more than two stages
- Bankable feasibility study June through December 2010
- Consultation with UCG Policy Scientific Committee 2H 2010
- Detailed investigation of funding options (both local and off-shore) commenced in 2009 and continues



INTERNATIONAL PROJECTS



Recent announcements on joint ventures enhance the projects portfolio

Methane Joint Venture

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Wandoan

Cougar Direct Invest China

China / Mongolia **Kingaroy**



Pakistan

Other projects under due diligence

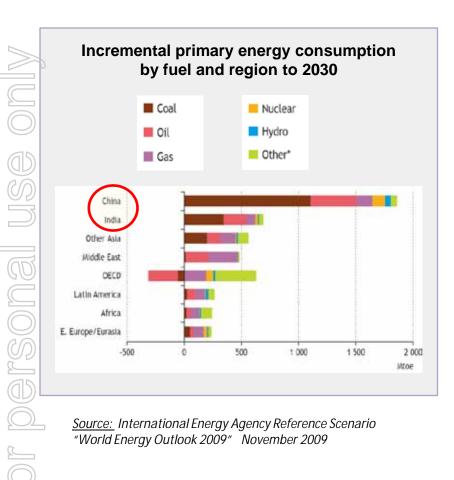
Gippsland

Ignite Energy Resources

Cougar UK



SPECIAL WORD ON ASIA



Source: International Energy Agency Reference Scenario "World Energy Outlook 2009" November 2009

- Non-OECD energy consumption grows faster than OECD
- Non-OECD Asia energy consumption forecast to grow 106% 2006-2030
- Coal remains the dominant energy feedstock
- Global coal consumption rises 40% in 20 years
- China and India are the prime drivers
- China's energy consumption forecast to double within 20 years from 2006 levels
- China contributes over 65% to the increase in consumption of coal

Cougar Direct Invest China

- Partnership between Cougar Energy and Direct Invest (Singapore) to develop UCG projects in China and Mongolia
 - Announced 14 December 2009

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- Cougar Energy contributes technical evaluation, project design and development skills as well as facilitating the world's best proven UCG technology
- Direct Invest brings extensive experience investing in and establishing joint venture projects in China



Significant growth potential

- China remains heavily dependent on coal to meet its energy requirements
 - Vast "stranded" coal resources available
 - The Chinese Government recognises the current environmental challenges and is urging the coal and power industries to focus on clean technologies
 - Chinese regulators view UCG as a cleaner coal technology and are pushing for its adoption
- Chinese partners with otherwise uneconomic coal resources are keen to include a UCG project as part of a traditional coal mining operation

EINVESTMENT THESIS



INVESTMENT THESIS



- At the forefront of the trend for alternative energy
- Proven technology
- Coal remains the dominant source of base load power
- Smarter way to use coal
- Significant environmental and economic advantages over coal seam methane and natural gas
- Genuine commercialisation strategy of scale
- Solid base business established
- Organic growth profile
- Experienced UCG management
- Adds diversity of gas production to a portfolio
- Competitive cost advantages, robust project returns
- Strong risk mitigants for Kingaroy project in place
- Attractive electricity price outlook
- Not exposed to international price movements
- Long term investment opportunity (free cash flow) with forseeable exit strategy
- Ability to calculate "sum-of-the-parts" valuation



VALUATION COMPARISONS



>>> Various methodologies

- DCF + risk adjusted resource potential (sum-of-the-parts)
- **Reported resources**
- 3. 4. ||BUOSJAOJ Reported resources dedicated to announced commercial projects
 - Relative to coal seam gas (CSG)

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Australia's leader in Underground Coal Gasification (UCG)

- utilising the world's leading commercially proven technology
- largest commercialisation of UCG technology in Australia
- Kingaroy 400 MW long life base load power station
- several long life projects under development
- genuine monetisation of assets with strong long term returns

Proven technology on a commercial scale
..... producing cost competitive and environmentally
friendly industrial gas for the Australian market.

Company transformation

Long life projects

Low impact on environment

Lower carbon energy source

Commercialisation

Untapped energy

Alternative energy

Energy substitution

Smarter way to use coal

Cost competitive electricity

Base load power

Robust economics

Proven technology

Consistent strategy

Genuine scale

Low cost industrial gas

Experienced UCG management





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The Cougar is coming ...