

# Western Australia Forum October 2013



### "Size, Scalability, Market and Pricing"



Sino Gas & Energy Holdings Limited ("Sino Gas" ASX: SEH) is an Australian energy company focused on developing Chinese unconventional gas assets. Sino Gas holds a 49% interest in Sino Gas & Energy Limited ("SGE") through a strategic partnership completed with MIE Holdings Corporation ("MIE" SEHK: 1555) in July 2012 to develop two blocks held under Production Sharing Contracts (PSCs) with CNPC and CUCBM. SGE has been established in Beijing since 2005 and is the operator of the Sanjiaobei and Linxing PSCs in Shanxi province.

### **Resource Statement**

The statements of resources in this Release have been independently determined to Society of Petroleum Engineers (SPE). Petroleum Resource Management Systems (SPE PRMS) standards by internationally recognized oil and gas consultants RISC (October 2013). These statements were not prepared to comply with the China Petroleum Reserves Office (PRO-2005) standards or the U.S. Securities and Exchange Commission regulations and have not been verified by SGE's PSC partners CNPC and CUCBM. EMV is the probability weighted net present value (NPV), including the range of project NPVs and the risk of the project not progressing. Project NPV<sub>10</sub> is based on a mid-case gas price of \$US8.79/Mscf and lifting costs (opex+capex) of ~ US\$1.3/Mscf for mid-case Reserves, Contingent & Prospective Resources. All resource figures quoted are unrisked mid-case unless otherwise noted. Sino Gas' attributable net Reserves & Resources assumes PSC partner back-in upon ODP approval, CBM Energy's option to acquire an interest of 5.25% in the Linxing PSC (by paying 7.5% of back costs) is exercised, and MIE fulfil funding obligations under the strategic partnership agreement.

Information on the Resources in this release is based on an independent evaluation conducted by RISC Operations Pty Ltd (RISC), a leading independent petroleum advisory firm. The evaluation was carried out by RISC under the supervision of Mr Peter Stephenson, RISC Partner, in accordance with the SPE-PRMS guidelines. Mr Stephenson has a M.Eng in Petroleum Engineering and 30 years of experience in the oil and gas industry. RISC consent to the inclusion of this information in this release.

#### Disclaimer

Certain statements included in this announcement constitute forward looking information. This information is based upon a number of estimates and assumptions made by the Company in light of its experience, current conditions and expectations of future developments, as well as other factors that the Company believe are appropriate in the circumstances. While these estimates and assumptions are considered reasonable, they are inherently subject to business, economic, competitive, political and social uncertainties and contingencies.

Many factors could cause the Company's actual results to differ materially from those expressed or implied in any forward-looking information provided by the Company, or on behalf of, the Company. Such factors include, among other things, risks relating to additional funding requirements, gas prices, exploration, acquisition, development and operating risks, competition, production risks, regulatory restrictions, including environmental regulation and liability and potential title disputes. Forward-looking information is no guarantee of future performance and, accordingly, investors are cautioned not to put undue reliance on forward looking information due to the inherent uncertainty therein. Forward-looking information is made as at the date of this announcement and the Company disclaims any intent or obligation to update publicly such forward-looking information, whether as a result of new information, future events or results or otherwise.

### Sino Gas (ASX:SEH) The Right Place at the Right Time



### **Ordos Basin**

- Rated as one of the world's largest gas basins<sup>1</sup>
- ✓ Current production ~1.5 bcf/day
- ✓ Operators include TOTAL, SHELL, CNPC, SINOPEC, etc.
- China's 12th Five Year Plan stipulates accelerated development of Ordos Basin gas
- $\sim$  Sino Gas' Linxing PSC specifically designated to be fast tracked

### China's Growing Gas Supply Shortfall

- Gas supply in China is serviced by domestic production, and supplemented by increasingly substantial imports of LNG and pipeline gas.
- Central government is promoting local gas production to reduce the supply shortfall and the country's reliance on costly imported gas.



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1- Source: Wood Mackenzie 2 -Source : International Energy Agency (EIA) 2013 Annual Energy Outlook.

# Accessible Routes to Market via Existing Pipelines





Multiple gas pipelines with existing tie-in points providing market access for Sino Gas' pipeline quality gas



- ✓ Key transcontinental gas transport hub
- $\sim$  Above ground infrastructure with ample spare capacity
- $\sim$  Existing and planned demand far exceeds supply
- Shanxi Province alone (population ~ 35 million) underpins supply



## Two PSCs MULTIPLE PROJECTS



Approximately a third of the total acreage yet to be explored



✓ Partnered with major Chinese PSC operators with extensive development delivery experience



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# "More wells scheduled to be drilled in 2013 than the past seven years combined"





# **Major Project Resource and Valuation Upgrades Continue**



- 168% increase in Project 2P Reserves to 877 bcf, with Sino Gas' share at 233 bcf<sup>1</sup>
- Project 100% Contingent Resources increased 10% to 2.5 tcf, with Sino Gas' share increasing to 713 bcf<sup>1</sup>
- Project 100% Prospective Resources increased 64% to 5.2 tcf, with Sino Gas' share increasing to 1.3 tcf<sup>1</sup>
- Sino Gas' share of project EMV has increased by a further 51% to US\$2.4 billion<sup>2</sup>



Mid-case Project Reserves & Resources (Bcf)

1 – Refer to Resource Statements on slide 2 for full disclosure. 2 – EMV is based on NPV<sub>10</sub> with a mid-case gas price of US\$8.79/Mscf and lifting costs (opex+capex) of ~US\$1.3/Mscf for mid-case for mid-case Reserves, Contingent & Prospective Resources.

### Exceptional Returns WITH FURTHER UPSIDE POTENTIAL

Prospective Resources.





### 2013-2014 – Delivering the Plan



- ☑ Drill 32 Wells 20 Completed On track to complete drilling program by YE'13
- ☑ 1,235km of new seismic lines Acquired and interpreted
- ☑ 24 well testing program Testing 13 wells underway On track to complete by YE'13
- ☑ Gas Sales Agreement signed on Linxing in June 2013
- ☑ First horizontal well for Sino Gas spud mid-August 2013
- ☑ Submission of first Chinese Reserve Report (CRR) on the Linxing PSC
- □ Negotiation of 2<sup>nd</sup> gas sales agreement underway
- Aggressive new well program with plans of ramping up over the next 3 years majority of wells anticipated to be hooked up directly into the pilot production program as completed
- □ Further seismic to complete required grid lines for CRR submissions
- □ Pilot production scheduled early 2014 across both PSCs increasing throughout the year
- Additional CRR submissions expected in first-half 2014





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### Contacts



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Our latest announcements and presentations can be found on our website: www.sinogasenergy.com



## Appendix A: 2013 FLOW TESTING PROGRAM COVERAGE





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