

Building a Successful Gas Business in China

中澳煤层气能源有限公司
— 正在中国冉冉升起的一个能源新星

Mr. Gavin Harper
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执行董事会主席

December 2011

2011年12月

SINO Gas & Energy
中澳煤层气能源
An Emerging Clean Energy Company in China

■ Overview

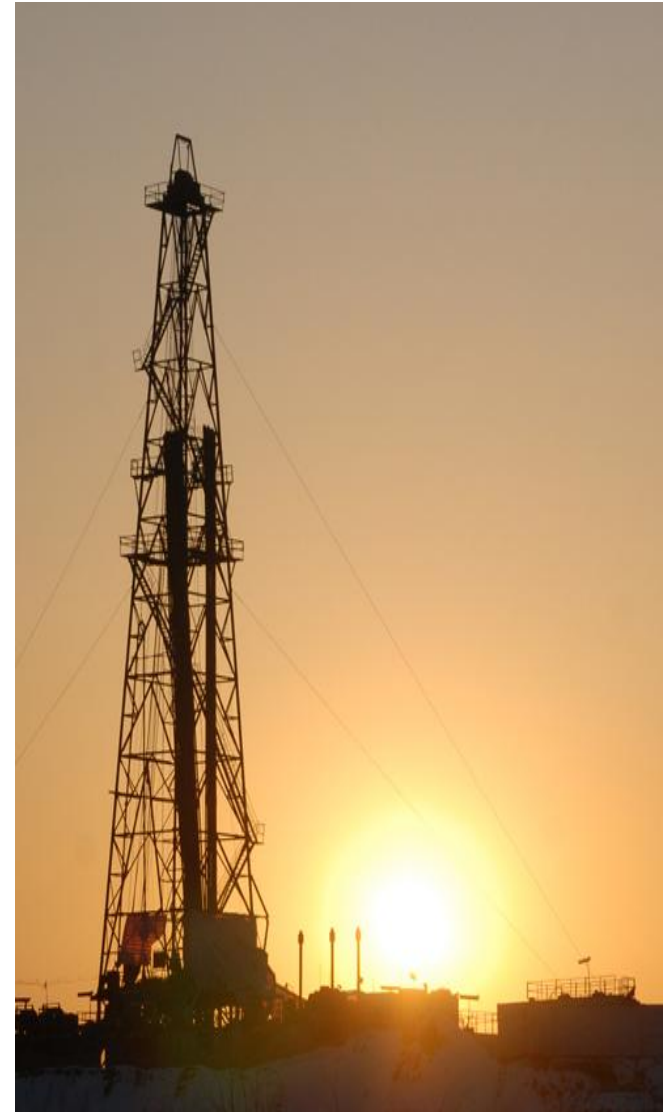
公司简介

■ Success factors

成功的几个要素

■ The future

我们的未来





Overview 公司简介

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A footprint in China since 2005

自2005年以来中澳公司在中国的发展

- **Operating in Beijing since 2005**
中澳公司北京办公室于2005年在北京开始运行
- **Gas assets acquired from Chevron farm-in in 2006**
2006年，中澳公司从美国雪弗龙公司接手临兴和三交北区块的部分区块权益
- **Largest foreign acreage in key Ordos Basin**
中澳公司在鄂尔多斯盆地是拥有最大合作区块的国外投资商之一
- **6 years of asset de-risking, now focusing on development**
经过6年的风险勘探，公司即将进入开发阶段
- **2.9 Tcf independently verified Reserves, Contingent & Prospective Resources – to SPE standards**
根据SPE储量评价标准和计算规范，中澳公司已探明约2.9万亿立方英尺（822亿方）可采储量。

Gas Development Projects of 3,000km² in Ordos Basin
在鄂尔多斯盆地，中澳公司拥有3000平方公里的合作区块

Head Office – Beijing
公司总部在北京

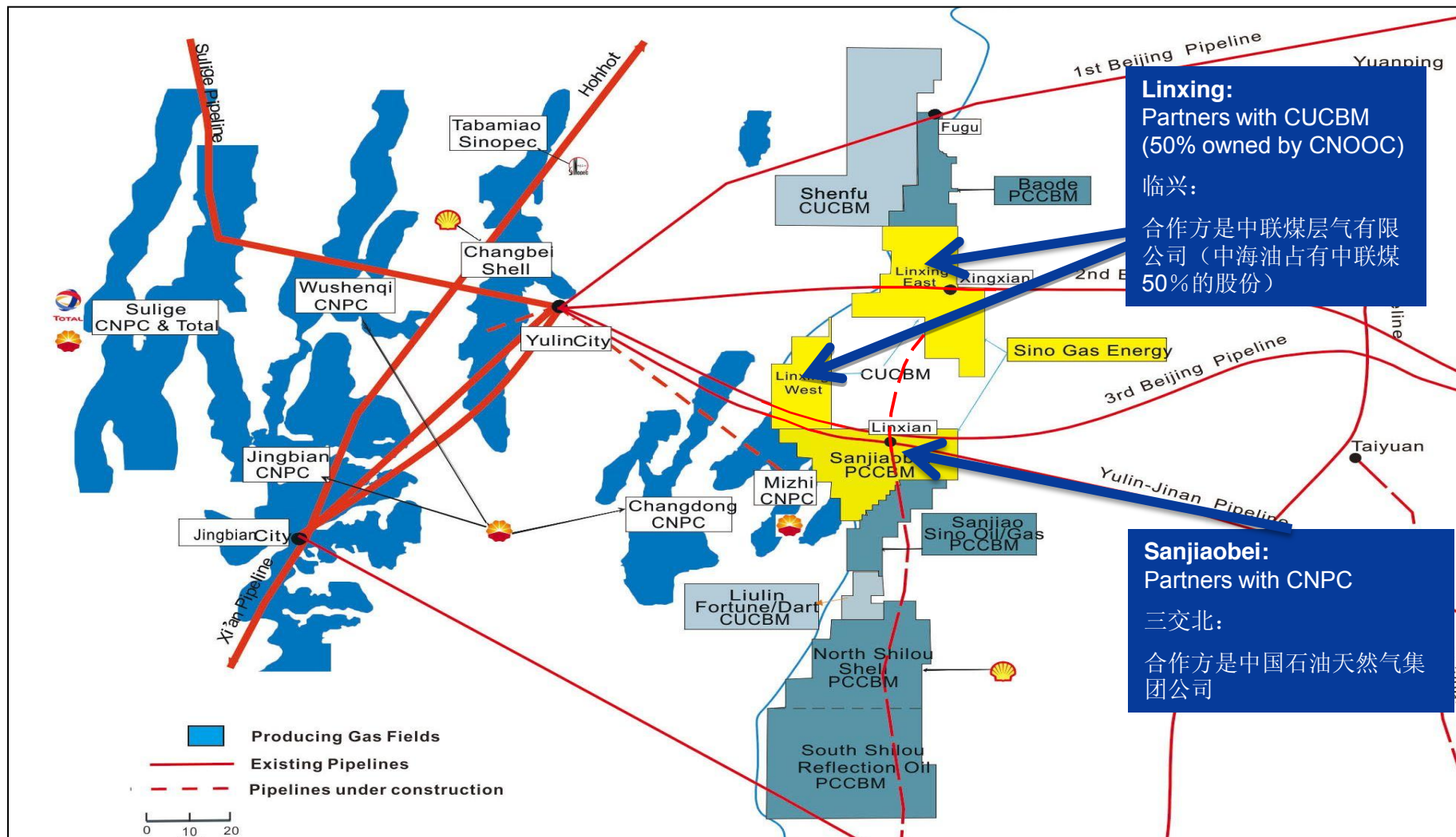


2P Reserves 19Bcf, Contingent + Prospective Resources of 2.9Tcf

中澳公司已探明约190亿立方英尺（5.4亿方）储量，约2.9万亿立方英尺（822亿方）可采储量

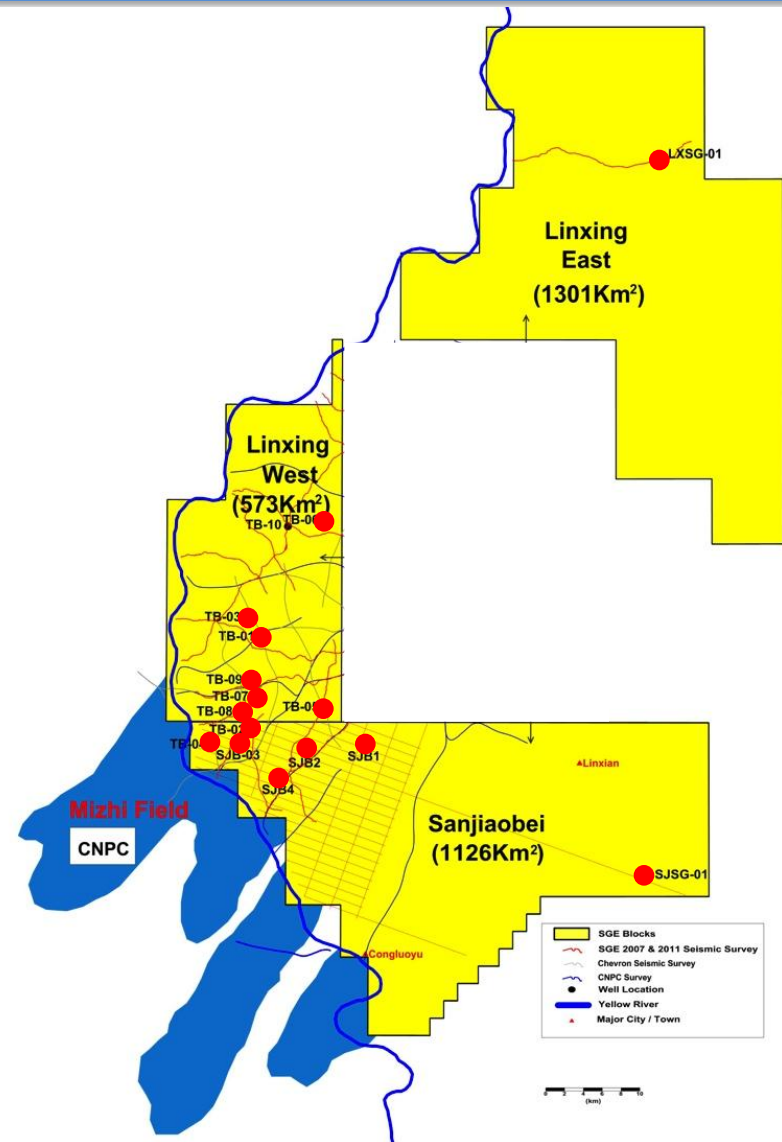
Assets in key gas basin & substantial demand areas

中澳公司在鄂尔多斯盆地的合作区块



Successful exploration & appraisal 成功的勘探及评价工作

- 15 gas discovery wells
成功钻测15口井
- 700 km seismic survey
已采集及处理约700公里的地震数据
- Extensive gas flow testing
已开展了大量的产能测试工作
- Pilot program underway
正进入试采阶段





Success Factors 成功的要素

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Partnering with experienced Chinese stakeholders

经验丰富的中国合作伙伴



CNPC 中石油

- Sanjiaobei PSC (49%, Foreign contractor)
三交北合同区块（外方合作公司拥有49%的股份）
- 1,126 km²
三交北合同区块面积为1126平方公里



CUCBM 中联煤层气

CNOOC 中海油



- Linxing PSC (70% Foreign Contractor)
临兴合同区块（外方合作公司有70%的股份）
- 1,874 km²
临兴合同区块面积为1874平方公里

Shanxi Province 山西省

- Plans in place for province gasification, in 12th 5 year plan
在‘十二五’规划中，山西省计划全省天然气化

Active Cooperation is essential

积极而有效的合作是成功之本

- Alignment of Objectives
目标一致
- Shared resolution of any challenges
共同面对挑战
- Open Communications
坦诚的交流

Strong team assembled

强有力的公司团队

- Multifunctional team of 32 people in Beijing with international oil & gas experience
公司目前在北京拥有32位国际化的各专业人才
- Substantial board experience
公司的董事会高效而富有经验
- Demonstrated technical and management ability to drive exploration success
公司拥有实力超强的技术和管理团队，为项目的成功运营奠定基础
- Strong teamwork culture developed
团队协作的文化氛围很浓
- Each member understands how they contribute to success
每个成员都为公司的成功发展而努力

In Country Team 中国团队



Delivering safe operations

安全的操作理念

- **Practical policies & procedures**
公司有明确的安全政策和清晰的安全操作程序
- **Strict execution**
严格的安全管理
- **Key focus areas: road travel, local community, EIA**
重点关注的几个方面：道路交通；地方人文；及环境保护和评价的严格执行。
- **Awareness of weather impacts on operations**
非常注重天气变化对安全操作的影响

560,000 hours

Worked to the end of Nov 2011 in the Company's seismic, well drilling, well testing, and Pilot program.

截止2011年11月底，我们在地震、钻井、测试、试采方面已累积进行了56万小时的安全无事故作业。

Nil Accidents 零伤亡

Nil Incidents 零事故

Nil Environmental Impact 零污染

Project execution 良好的经营理念

- **Project management**
项目管理
Application of disciplined project management
有约束力的项目管理
- **Diversified skills & expert**
专业广泛的技术及专家团队
Sino Gas's specialist teams design and implement
超强的自我掌控的项目设计及实施
- **Technology application**
技术应用
Experience driving technology applications
常规技术、经验技术的应用
Always looking for improved applications
始终在寻求技术改进
- **Enhanced control**
加强项目控制
End to end planning and control of all project activity
有效控制项目的各个环节



Implementation

优异的项目实施过程

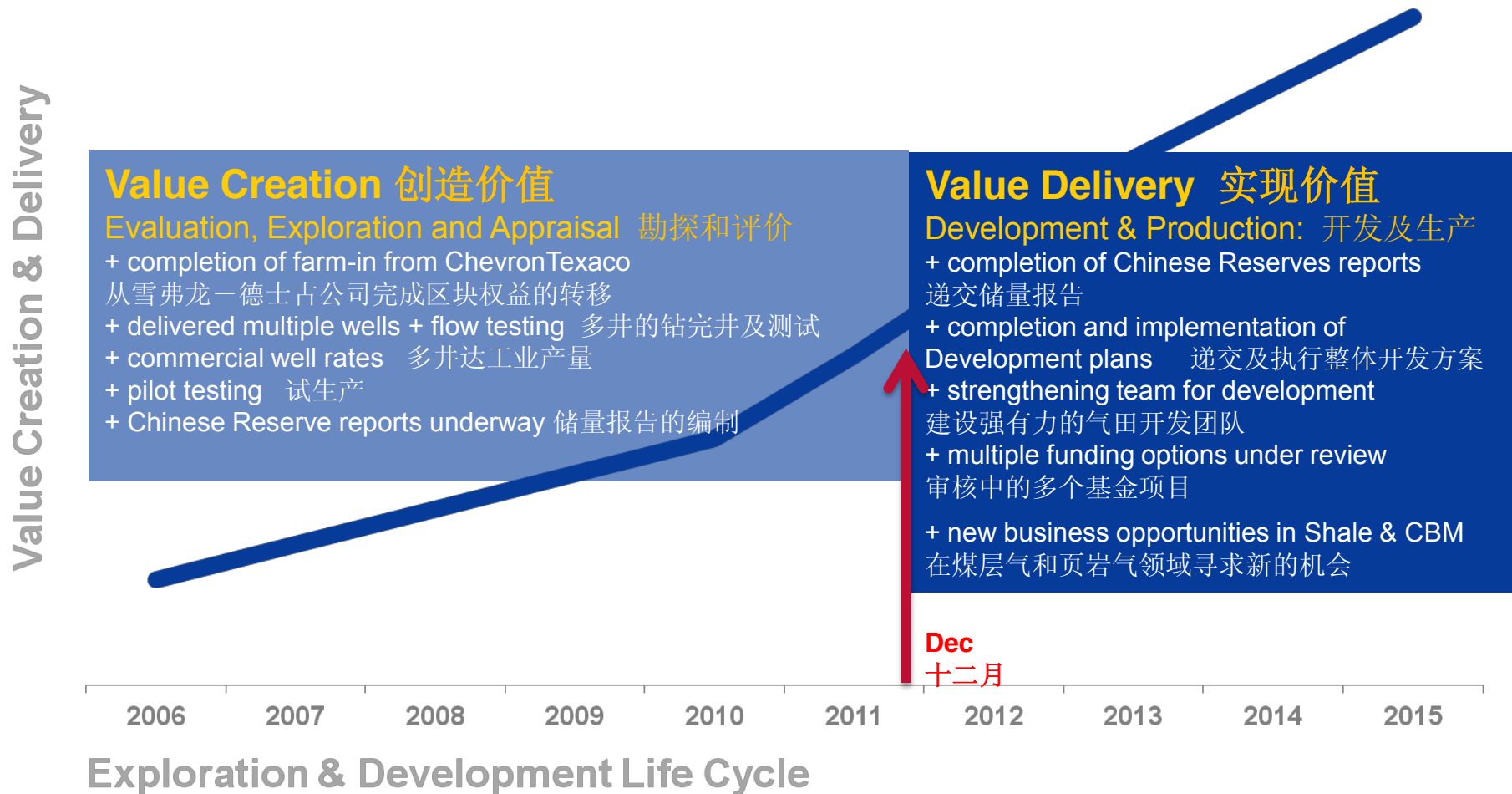
- **Procurement processes** 采办过程
Strict procurement processes,
↓costs, ↑quality, ↑safety
严格的采办程序
降低成本, 提高质量, 加强安全
Careful selection of contractors on basis of
capability and safety criteria
从能力和安全方面进行筛选
- **International best Practice** 国际先进做法
Consult local & international experts
咨询国内外专家
Benchmark performance
标杆对比
- **Skilled contractors** 经验丰富的承包商
Pre-job planning 前期规划
Post job audits 后期工作审核
Partner consultation 伙伴咨询
Aligned contracting strategy 前后一致的合同执行



The Future
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Our project life cycle 项目的周期



Project implementation

项目的执行计划

2011				2012				2013				2014				2015			
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4

Exploration & Appraisal 勘探和评价		New wells, seismic, testing 钻井、地震、测试																	
Key Project Milestones 主要的里程碑		Reserve Report Approval 储量报告递交并获得通过 ODP Approval 开发方案递交并获得通过																	
Development Delivery 开发		Pilot, Pre-production, Development 试采、开发准备、开发																	

Bringing Benefits to Stakeholders 带来的经济利益

- **Creation of Jobs in Shanxi**
在山西创造更多的工作机会
- **Economic improvement**
促进当地经济增长
- **Bringing gas to the region**
给地区供气
- **Reduction of carbon and emissions**
减少碳排放

Critical factors for a successful Development Project

成功开发项目的关键因素

- Partnering with cooperative Chinese majors (CNPC/Petrochina & CUCBM/CNOOC) under international standard Production Sharing Contracts (PSCs)
我们按照国际标准的产品分成合同与中石油、中联煤合作
- Experienced team assembled, smart technology application and strong project management
经验丰富的公司团队、合理的技术应用、强有力的项目管理
- Substantial gas flow rates achieved across multiple wells focus now on development
多井均获得了工业标准的气流，现已集中到项目的开发的准备工作
- Strong market demand and supportive government policy
强劲的市场需求和政府的政策支持
- Positioned for growth through ongoing exploration and expansion
项目勘探的进一步延伸

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Resource Statements

The statements of resources in this presentation have been independently determined to Society of Petroleum Engineers' Petroleum Resource Management Systems standards by internationally recognised oil and gas consultants RISC Pty Ltd, except as otherwise noted. All resource figures quoted are mid case - 100%.

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