

China Oil & Gas 5th Summit 2008



Exploring Hidden Profit
& Fueling Dynamic Growth
in 2008 and Beyond

把握能源经济脉搏
优化企业战略合作
推进前沿技术应用

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Organizer



3/20 - 3/21
Shangri-la Hotel, Beijing, China

Day 1 Thursday

0800	REGISTRATION	
0900	The Energy Demand and Development Trend in China	Wenke HAN , <i>President, Energy Research Institute National Development & Reform Commission</i>
0930	Market Trends and Management of Oil Industry in China	Xiaochuan WANG , <i>Deputy Director Department of Commercial Reform and Development Ministry of Commerce of the People's Republic of China</i>
1015	"Showing His Regulatory Teeth" - New Policy and Governance Structures to Support Sustainability and Increase Investment	Dingming XU , <i>Deputy Director Office of The National Energy Leading Group</i>
1100	MID-MORNING REFRESHMENTS BREAK	
1115	The Recent Reform on China's Tax System: Progress & Prospects	Zuo LIU , <i>Executive Director, Tax Science Research Institution State Administration of Taxation</i>
1200	Price Change of International Crude Oil: History, Mechanism, Tendency	Yusong DENG , <i>Director General, Comprehensive Department Institute of Market Economy Development Research Center of the State Council</i>
1245	NETWORKING LUNCHEON	
1400	Ceramic Insulation Coatings in the Industrial Environment: What You Need to Know	Michael STELMACH , <i>VP – Sales, Mascoat Products Mascoat Products PTE Ltd., Houston, Texas, U.S.A.</i>
1445	Gas Exploration Potential in Offshore China	Weilin ZHU , <i>Vice President & GM, Exploration China National Offshore Oil Corp. Ltd.</i>
1530	AFTERNOON REFRESHMENTS BREAK	
1545	China's Natural Gas Market and StatoilHydro's Ambitions	Kjetil TUNGLAND , <i>Vice President & Head of Natural Gas Asia StatoilHydro</i>
1630	Energy Resources and Management Frame in China	Laiqun YUE , <i>Director General, Marketing & Business Strategic Research Center of Oil & Gas Resources The Ministry of Land and Resources P.R.C.</i>
1715	CHAIRMAN'S CLOSING REMARKS COCKTAIL PARTY	



Day 2 Friday

BEYOND THE BUZZWORDS: BECOMING A VALUE PLAYER IN THE O&G SECTOR

0800	REGISTRATION	
0830	Grasping Opportunities, Meeting Challenges, Improving the Core Competitive Ability of China's Petro-Chemical Equipment Industry	Yuzong XU , Vice President <i>China Petroleum & Petro-Chemical Equipment Industry Association (CPEIA)</i>
0900	Backgrounds for Macro-Economy Development in Global Oil Market	Li NIU , Deputy Director, Senior Economist <i>Economic Forecast Division State Information Center</i>
0945	Balancing Risk in an Oil & Gas Company Portfolio	Frank C INGRISELLI , President, Chief Executive Officer <i>Pacific Asia Petroleum</i>
1030	MID-MORNING REFRESHMENTS BREAK	
1045	Challenges and Opportunities in Capturing Growth in China's Natural Gas and LNG Market	Changlin WU , President & Managing Director <i>Longwoods Resources</i>
1130	Investing in China's Oil & Gas Industry: Managing Risks and Grasping the Advantages of Market Liberalization	Moderator: Yuzong XU , Vice President CPEIA Panelists: Changlin WU , President & Managing Director <i>Longwoods Resources</i> Frank C INGRISELLI , President & CEO <i>Pacific Asia Petroleum</i> Li NIU , Deputy Director, Senior Economist <i>Economic Forecast Division State Information Center</i> Robert BLOHM , Investment Banker and Economist <i>Senior Advisor Keen Resources Asia Ltd.</i>
1200	Controlled Document Management	Willem van der Jagt , Chief Executive Officer <i>Assai Software Services BV</i>
1245	NETWORKING LUNCHEON	
1400	It's the Market, Not the Environment	Robert BLOHM , Investment Banker and Economist <i>Senior Advisor Keen Resources Asia Ltd.</i>
1445	Yan'kuang's Key Technologies in R&D of Coal Gasification and Coal Chemical Industry	Minglin ZHANG , Deputy General Manager <i>Yankuang Group</i>
1530	MID-AFTERNOON REFRESHMENTS BREAK	
1545	Key Considerations for Future Development of Biodiesel in China: Opportunities & Challenges	Enze MIN , Founder of Catalytic Science Application in Oil Refining in China <i>SinoPec</i>
1630	Brazil Bio-fuel Learning and Our Wishes for the Future	Kuniyuki TERABE , General Manager <i>Petrobras</i>
1715	CHAIRMAN'S CLOSING REMARKS END OF SUMMIT	

第一天

星期四

0800	来宾签到	
0900	中国能源需求及发展趋势	韩文科 ，能源研究所所长 国家发展与改革委员会
0930	中国成品油市场走向和管理	王晓川 ，商业改革发展司副司长 中华人民共和国商务部
1015	推动中国能源可持续发展	徐锭明 ，副主任 国家能源小组领导小组办公室
1100	早茶-自由交流时间	
1115	中国近期税制改革进展与今后展望	刘佐 ，税收科学研究所所长 国家税务总局
1200	国际原油价格变化：历史、机理与趋势分析	邓郁松 ，市场所综合研究室主任 国务院发展研究中心
1245	午餐 / 自由交流时间	
1400	陶瓷绝缘涂料（CIC）在工业环境中： 您需要了解的	Michael STELMACH ，副总裁，产品销售 Mascoat 产品有限公司，休斯顿，德克萨斯州，美国
1445	中国近海天然气勘探潜力分析	朱伟林 ，副总裁兼勘探部总经理 中国海洋石油总公司
1530	午茶-自由交流时间	
1545	在华天然气市场发展战略	Kjetil TUNGLAND ，副总裁兼亚太区天然气负责人 挪威国家石油海德鲁公司
1630	中国能源及管理框架	岳来群 ，油气资源战略研究中心科技市场室主任 国土资源部
1715	大会主席总结发言 豪华鸡尾酒会	



第二天 星期五

超越时髦口号：石油天然气企业价值的全面提升

0800	来宾签到	
0830	抓住机遇，迎接挑战，提高我国石油化工装备工业的核心竞争力	徐玉忠 ，副理事长 中国石油和石油化工设备工业协会
0900	国际石油市场发展的宏观背景	牛犁 ，经济预测部副主任，高级经济师 国家信息中心
0945	如何平衡风险，创造公司投资组合最大利益？	Frank C INGRISELLI ，总裁兼首席执行官 亚太石油公司
1030	早茶- 自由交流时间	
1045	中国天然气及液化天然气市场的机遇与挑战	吴长林 ，总裁兼董事总经理 Longwoods Resources公司
1130	巧妙妙投：掌控风险，把握市场开放的机会	主持人： 徐玉忠，副理事长 中国石油和石油化工设备工业协会 圆桌讨论嘉宾： Frank C INGRISELLI ，总裁兼首席执行官 亚太石油公司 吴长林 ，总裁兼董事总经理 Longwoods Resources公司 牛犁 ，经济预测部副主任，高级经济师 国家信息中心 卜若柏 ，投资银行家和经济学家&高级顾问 亚洲金能源有限公司
1200	文件控制管理	Willem van der Jagt ，首席执行官 Assai 软件管理
1245	午宴-自由交流时间	
1400	是市场，并非环境！	卜若柏 ，投资银行家和经济学家，高级顾问 亚洲金能源有限公司
1445	兖矿集团煤气化与煤化工关键技术的研发	张鸣林 ，副总经理 兖矿集团
1530	午茶- 商务洽谈时间	
1545	生物柴油产业发展的机遇与挑战	闵恩泽 ，中国炼油催化应用科学的奠基人 中石化
1630	巴西生物燃料的启示及其未来发展	Kuniyuki TERABE ，总经理 巴西国家石油
1715	大会主席致闭幕辞 峰会结束	

中国石油和石油化工设备工业协会

Congratulatory Message

Over the past four years, China Oil and Gas Summit (COGS) has provided a wonderful platform for O&G insiders to establish contacts, exchange ideas and experiences. More than 500 top executives from global oil and gas fraternity attended COGS and to satisfy their demand for further communication and co-operations, IBG organizes **The Fifth Annual China Oil and Gas Summit (COGS2008) on 20 -21 March 2008, in Beijing, China.** On behalf of China Petroleum & Petrochemical Equipment Industry Association, I would like to convey my heartiest congratulations to the success of COGS2008

Oil & gas will remain the main energy resource for most countries to maintain economic development. Chinese Government is making a series of efforts on energy security including stepped-up the exploration, production and utilization of its oil and natural gas resources, increasing importation of LNG, speedup the laying of pipeline network for crude oil & product oil transportation, improving the technology and facility for oil/gas reservation, promoting comprehensive utilization of associated resources, enhancing the recovery ratio of oilfields, adopting updated technologies for downstream industry, encouraging diversified resource development, etc. At the same time, to accelerate the exploration and production, uplift energy efficiency and reduce carbon dioxide emissions through technical innovation and international cooperation is the most important way to meet the growing demand for energy in the world.

The theme of COGS2008 on **"EXPLORING HIDDEN PROFIT & FUELING DYNAMIC GROWTH IN 2008 AND BEYOND"** is particularly important to oil and gas industry in China striving for international cooperation for further growth. I truly believe that COGS will provide a valuable platform to professionals and entrepreneurs from all over the world to networking and to cultivate new business. I hope more and more Chinese and foreign enterprises from petroleum and petrochemical equipment R&D and manufacturing sectors will pay attention to and participate in this event.

Wish "The Fifth Annual China Oil & Gas Summit" a resounding success!



Zhao Zhiming

Executive Vice President

China Petroleum & Petrochemical Equipment Industry Association

2007-12-5



Independent Power Producers Forum

February 22nd, 2008

Congratulations

On behalf of Independent Power Producers Forum (IPPF), we would like to convey our heartiest congratulations to the success of the **Fifth Annual China Oil and Gas Summit (COGS2008)** to be held in Beijing, China in March 2008. We hope that you will join us in Beijing at this grand oil and gas industry gathering!

China is surging ahead with annual growth rates of over 10 percent. China's appetite for energy is commensurate with its growth. China will follow its open policy and welcome foreign investment in risk exploration and cooperative development of its oil and natural gas resources. Given the current situation in the oil and gas market within China and in a worldwide context, what are the smartest moves for sustainable growth and long-term profit? What particular challenges can we expect in the next few years and what are the best strategies in preparing for these eventualities?

Over the past four years, COGS has provided a wonderful platform for O&G insiders to establish contacts, exchange ideas and experiences, as well as tap into the potential opportunities for market entry. COGS is one of the major international functions that effectively links global oil and gas fraternity. **The theme of COGS2008 on "EXPLORING HIDDEN PROFIT & FUELING DYNAMIC GROWTH IN 2008 AND BEYOND"** is particularly important to the oil and gas industry as China strives for international cooperation for further growth. We truly believe that COGS will provide a valuable platform to professionals and entrepreneurs from all over the world to come to Beijing for networking and to cultivate new business. The success of COGS could only be accomplished by the excellent work of IBG Company Limited.

We congratulate the great work done by IBG Company Limited and wish all the participants an enjoyable event and a most memorable stay in Beijing.


Joel Laykin
Secretary General
Independent Power Producers Forum


Independent
Power Producers
Forum

IPPF Secretariat Information

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Website: www.ippfpowerasia.com



Aaditya Energy Foundation Leads a Global Movement for Sustainable, Energy, Environment and Economics

Dr. Jagdish P. N. Giri,

Founder and Executive Director,
Aaditya Energy Foundation, Chennai, India.

Congratulation Letter

Ladies and Gentlemen,

Glad to know that **"The Fifth Annual China Oil & Gas Summit"** (COGS2008) is to be held in Beijing, China. Please allow me to express my best wishes, on behalf of **Aaditya Energy Foundation, India**.

Over the past four years, COGS has provided a wonderful platform for global oil & gas insiders to establish contracts, exchange ideas and experiences, as well as tap into the potential opportunities for market entry. COGS2008 is regarded as a worldwide event in China's oil & gas industry, promising another sounding effect.

With the rushing situation of energy economy on O&G sector, markets are diversified in different areas for various policies, demands, developments of economy & advanced technology. What are the smartest moves for sustainable growth and long term profit? What particular challenges can we expect in the next few years and what are the best strategies in preparing for these eventualities?

"The Fifth Annual China Oil & Gas Summit" is organized by **IBG**, which will offer the industry a great cooperate and communication platform, thought will influence China even Asia O&G industry with positive stimulation.

Congratulate the event will hold successful beforehand!

(Dr. Jagdish P. N. Giri)

Founder and Executive Director: Aaditya Energy Foundation, Chennai India

Signed on behalf of Aaditya Energy Foundation, India

<http://www.aadityaenergyfoundation.org>

Dated: December 21, 2007; Chennai, India

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About Mascoat Products

Mascoat Products, manufacturer of Delta T Marine, Delta~dB, Delta T Industrial and WeatherBloc Insulating Coatings, has been designing, distributing and manufacturing insulating coatings since 1995. It is Mascoat's belief that there is no "catch-all" insulation, so each coating is made specifically for its intended purpose, whether it be industrial, marine, commercial or residential. As energy consumption accounts for more than 60% of the operating cost of a plant, Mascoat's Delta T Industrial (DTI) can help save a tremendous amount of energy before it is lost. DTI has a very low emissivity value of 0.15, thereby reflecting most of the heat back into the product. It helps to maintain the product's temperature with very little heat lost and at the same time, eliminating Corrosion Under Insulation. Because the coating allows for constant inspectability of the substrate at all times, there is almost no maintenance for the coating once it is applied. Since DTI can be applied to working substrates in a fraction of the time of conventional insulation, installation and shutdown costs are kept to a minimum. Mascoat strives to help customers understand why conventional insulation systems are not always the best means of insulation, depending on the specific application. With Mascoat's coatings being used in the world around, Mascoat has the knowledge to help each customer find the best insulation option for each individual application. Mascoat is also able to perform engineered thermal calculations prior to application to show the benefits of insulating coatings over conventional means of insulation. Mascoat's satellite office in Singapore, headed by Mr. Elroy Phang, Managing Director of Mascoat Products Pte Ltd, is assigned to spearhead Mascoat operations in the Asia Pacific region. Visit www.mascoatasia.com to learn more information and why Mascoat is considered The Leader in Insulating Coatings.

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About Assai Software Services BV

Assai Software Services delivers a document management and document control system for large engineering projects. ASSAI supports the project phase and the operational phase.

ASSAI gives you Controlled document management. This concept has emerged on key engineering projects and is the combination of document management and document control. Controlled Document Management delivers a productivity and quality improvement in processing and handling documents. The system is fully web based and is also available as a service on the internet (AssaiNET).

For more information please visit our website at: www.assai-software.com.

ASSAI软件服务公司专为大型工程项目提供文件管理和控制系统。该系统可以高效率的支持项目中各个阶段的操作和运行。

ASSAI所提供的文件控制管理理念已经在主要的工程项目中得以体现，并且将文件的管理和文件的控制完美的结合在一起。通过对项目文件的处理和操作，ASSAI的文件控制管理系统将有效的帮助用户提高生产力，从而节省开支。

此外，该系统完全基于网络平台，用户可以在互联网上随意享受服务，没有任何地域限制。

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www.assai-software.com

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About SpecTec

“SpecTec” has dedicated over 20 years to the delivery of Information Technology solutions for the Maritime, Oil&Gas and Defence markets, and has set a firm course and is leading the way.

For the Oil and Gas sector, we have created specialised modules to deal with all of the industry specific issues related to Maintenance, Stock Control and safety procedures Managing and maintaining assets on Oil & Gas exploration platforms and fields is a complicated task, especially when these assets are spread across multiple locations all over the world. SpecTec solutions have managed just that, by applying Information Technology at its best.

Today, SpecTec professionals worldwide continue to motivate, build, and bring innovation to AMOS products and services. SpecTec’s commitment to a dynamic product development plan is the cornerstone of our customer partnerships and the very strategy of our challenge to remain the leader.

On land, in port, or at sea, SpecTec and AMOS carry on a tradition of IT excellence in Fleet Management Solutions, Offshore Asset Management, ILS applications, and a number of specialised services which are difficult to find elsewhere.

“SpecTec” 公司为海运、石油与天然气以及海事国防领域提供专业信息技术解决方案已有二十多年的历史，在该行业一直稳固发展并保持领先。

在海洋石油与天然气方面，SpecTec已开发了专业的功能模块，解决油气钻井平台、油田等生产设备的维护保养、备件库存管理、安全管理程序以及设备资产的管理等面临的各种复杂的专业管理问题，特别是这些资产分布于全球的各个角落的情况下如何很好地进行管理。SpecTec公司的专业解决方案正是于此，通过应用专业的信息技术实现最佳的管理。

今天，SpecTec分布于全球的专业人员积极进取、专业创新、持续打造AMOS产品与提供专业服务。SpecTec秉承的持续研发是与客户长久合作的基础以及始终保持领先的公司发展策略。

无论是陆地、港口、还是在海上，SpecTec和AMOS传承卓越的IT技术，将其应用到船队管理解决方案、海洋石油资产管理和ILS实践应用，还有SpecTec所拥有的难得的专家队伍提供专业的服务。

Organizer (主办方)



IBG Company Limited is one of the world's leading business intelligence companies with clients and partners throughout Asia, North America and Europe. We are dedicated to assisting our clients to achieve their goals by providing world class business intelligence services and information to assist in strategic and effective decision-making. IBG provides business executives with many networking opportunities, knowledge and skills through summits, conferences, professional trainings that will assist their organization in developing its strategies and enable growth. We organize more than 50 events and works with 5,000+ senior executives from worldwide leading companies every year. We are a company of original thought with ongoing extensive analysis into clients' needs, we provide the information you require for your future success as we believe innovation to be vital.

瑟奇国际集团 (IBG Company Limited) 是全球领先的专门提供B2B战略商业信息的跨国咨询机构, 组织各行业高层会议, 研讨, 战略峰会, 行业涉及能源, 电力, 化工, 钢铁, 电信, 医药, 电子, 金融等各领域, 以掌握和提供存在于成熟市场和新兴市场及跨越不同行业及专业领域的商业机会, 加强行业内最新资讯的交流。瑟奇国际集团目前在中国区的产品和服务主要包括决策层商业会谈, 商业培训, 代表会议, 主题讲座, 研讨会, 专题学术讨论会, 为企业高级管理人员和决策者提供战略商务信息。瑟奇国际集团的客户与合作伙伴遍及亚洲, 北美洲, 欧洲, 每年有5,000多来自世界各地的高层代表参加IBG组织的50多场战略会议。我们相信会议的质量取决于满足目标市场客户的需求, 演讲者全部来自大型国际知名商业机构, 政府部门及学术团体, 与会者不仅能获得最新的战略商务思想, 还有机会同其他高层人士建立商务联系。

Wenke HAN

*President, Energy Research Institute
National Development &
Reform Commission*

Mr. Wenke Han was born on June 1955 and graduated from Xi'an Communication University on January, 1982.

Since February 1982, Mr. Han has been working in Energy Research Institute from National Development & Reform Commission. He is now the President, Energy Research Institute from NDRC. In 2001 and 2002, he visited Energy and Environment Centre, University of Delaware. Mr. Han actively participated in research or policy making in the area of energy strategic development and planning, usage of energy in West area, sustainable energy policy, international oil pricing, oil and gas development and planning, alternative energy development and policy.

Mr. Han is also the chief editor of <China Energy> magazine. He is a member of China Energy Research Committee and China Investment Association.

韩文科

能源研究所所长
国家发展与改革委员会

韩文科，男，汉族，1955年6月生，1982年1月毕业于西安交通大学。

1982年2月至今一直在能源研究所工作。现任国家发展和改革委员会能源研究所所长，研究员。2001年和2002年，曾先后两次作为访问学者在美国特拉华大学能源与环境中心和美国能源部太平洋西北实验室从事可持续能源政策和能源环境政策方面的合作研究工作。先后参与和主持了多项涉及能源发展战略和规划、西部能源开发利用、可持续能源政策、石油和天然气发展战略和国际油价、电力体制改革、节能技术政策、可再生能源发展战略和政策等研究课题。目前，还担任《中国能源》杂志社社长和编委会主任、中国能源研究会理事、中国投资协会理事等。



0900 Session 1

Special Address from
Chairman

The Energy Demand
and Development
Trend in China

0900 议题一

主席特别致词

中国能源需求及发展趋势

The Energy Demand and Development Trend in China

Han Wenke
March 20, 2008

1

Content

1. Energy Status in China
2. Issues to be Addressed for Soaring Energy Demand Growth
3. Priority Policy Fields

2

1. Energy Status in China

3

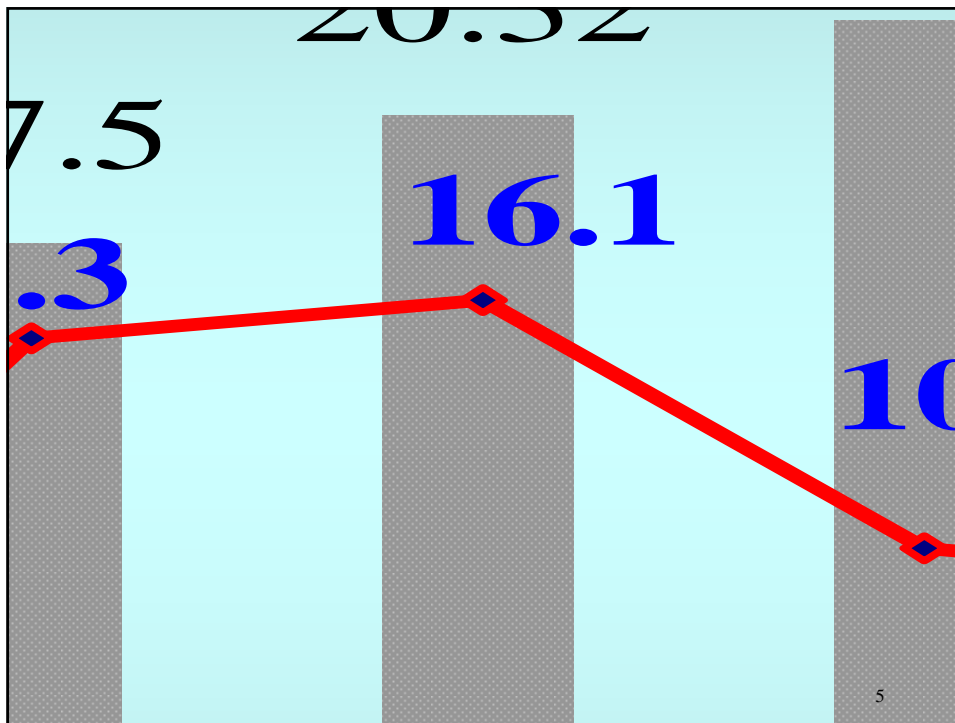
Policy and Strategy – importance attached to

- energy conservation and consumption reduction
- establishment of resource-saving and environmentally friendly society

Measures undertaken –

- to enhance exploitation of domestic energy sources,
- to speed up development of coal, power, oil and natural gas and renewable energy,
- to conduct the strategy of “Go-out” for supporting energy enterprises to participate exploitation of international energy sources and to increase oil imports

4



□ For Year 2005

Primary energy consumption 2.247 billion tce, accounting for 14.9% of the world, 67.3% of the USA, and 91.7% of the EU, and

- Increased by 860 million tce compared with that in 2000,
- with a annual average growth rate of 10.15% in the last five years, while
- 1.18 toe per capita, accounting for 3/4 of the world average, 1/4 of the Japan, and 1/7 of the USA

□ For Year 2007

Primary energy consumption 2.655 billion tce, increased by 7.8% compared with that in 2006

New Energy and Renewable Energy in China

□ Fast Growing Wind Industry

- ◆ By the end of 2006, 91 wind farms with total installation of 2.6 GW, increased by 1.3 GW compared with that in 2005.
- ◆ In 2007, there are 6 GW of total installations and the target of 5 GW for 11th Five Year Planning will be achieved prior to the expectation

□ First biomass combustion plant put into operation in China by the end of 2006

7

Installations and Sources (units: 10MW,%)

Fuel Sources	Year 2006		Year 2007	
	Installation	Percentage	Installation	Percentage
Fossil fuels	48405	77.8	55442	77.7
Hydropower	12857	20.7	14526	20.4
Nuclear Power	685	1.1	885	1.2
Wind Power	187	0.3	403	0.6
Others (Solar, etc)	63	0.1	73	0.1
Total	62200	100	71329	100

8

Destruction of the Out-of-date technology

Closed small thermal power plants of 12 GW in 2007, equivalent to the total amount of power installations in 1960s'



9

2. Issues to be Addressed for Soaring Energy Demand Growth

10

10

Main issues are:

- Industrialization
- Urbanization
- Globalization
- Information

Soaring Energy Demand **VS** Rapid Economic Development

11

Regional Imbalance

Less Developed--Rural Area in West China



Service

Building

Transport

Education



More Developed--City in Southeast China

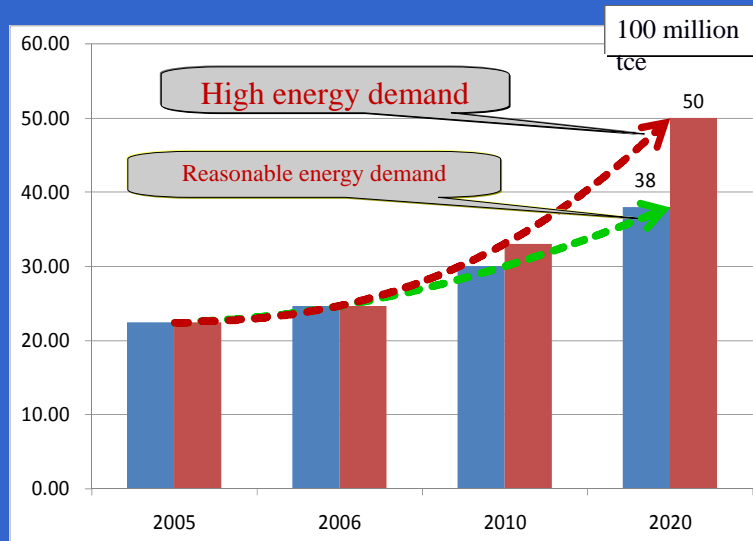
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Projection for China Future Energy Demand

Provided that energy conservation, energy mix optimization, effective energy consumption, the projection could be 3.4 to 3.8 billion tce by 2020, among which, 2.8 billion ton for coal, 500 million ton for oil and 200 billion cube meter for gas.

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Challenge to Energy Balance

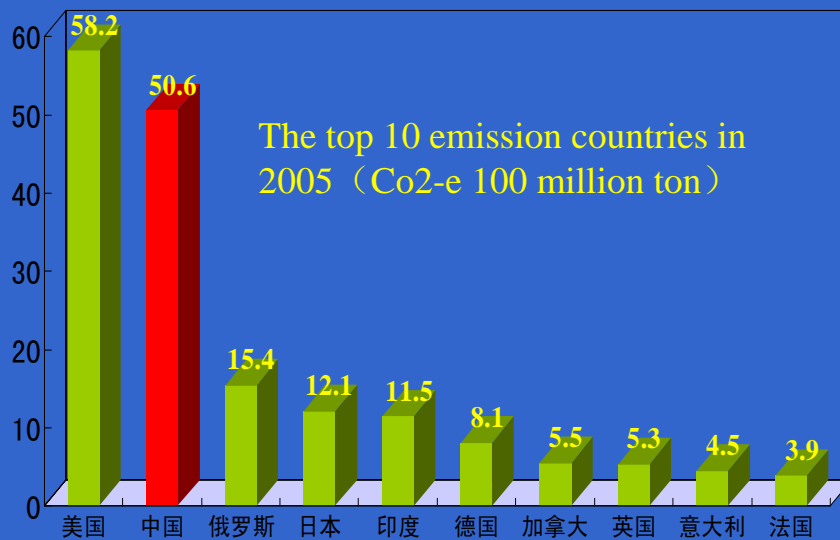


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Pressure by Global GHG Emission Reduction

- Big Energy Consumer
- Big GHG Emissioner
- Foreign Affairs
- Trade Barriers

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Difficult Utilization of Oversea Oil and Gas by Complexity of International Community

- Constraints to Global Resources
- Transport Issues
- Geo-politics
- Energy Security

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3. Priority Policy Fields

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(1) Realize Energy Conservation and Consumption Reduction based on Scientific Development Concept

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According to the Working Plan for Energy Conservation and Consumption Reduction, 6 points should be focused on

- To build a full set of industry sectors
- To focus on priority fields
- To improve energy conservation technology
- To enhance energy conservation administration
- To establish energy conservation guarantee mechanism
- To strengthen promotion

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Policy priority fields

- **To build the target of national energy consumption for macro administration**
- To transfer the economic modes to energy conservation way
- To improve policy and regulations and to enhance practice
- To emphasize energy conservation on industry as well as for building and transport

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(2) Improve capacity for sustainable energy supply based on domestic energy resources exploitation

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Five Points as follows:

- **Orderly development of coal**
- **Acceleration of power industry**
- **Enhancement of oil and gas**
- **Great importance to renewable energy**
- **Improvement of Rural energy capability**

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Orderly development of coal

- Enhancement of reasonable exploitation through sound planning, more inputs, establishment of subsidizing mechanism for ecological environment to alleviate coal mining impact
- Acceleration of large coal base construction and alliance and re-structuring among sectors, regions and regimes
- Improvement of effective deployment of coal resource, acceleration of coal bed gas exploitation, clean production and processing industry, and comprehensive utilization of coal with low heat value and gauge ?

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Acceleration of power industry

- To optimize coal power electricity by improving large and high efficient IGCC, pithead coal power stations and large air-cooling installation units
- To explore hydropower in order and in continuous and rolling way combined with effective resettlements, emphasize key hydropower, and explore small hydropower and build energy storage pumping system according to local situations
- To improve the nuclear power by technology introduction, absorption and innovation, and realize advanced nuclear water compressed technology design, manufacturing, construction and self operation and maintenance accordingly
- To enhance power grid by insisting the projects of west power to east, supplement north and south and national grid connection, and strengthen regional and provincial grid construction, urban and rural power grid construction and refurbishment.

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Enhancement of oil and gas

- To enhance resource exploitation by putting emphasis on key marine areas, main oil base and new inland oil and gas base and investigation of non-conventional oil and gas resources
- To accelerate development by stabilizing and refurbish existing oil fields for the purpose of extending the lifetime, stress on oil and gas fields in deep sea, Talimu, Chaidamu (Xinjiang Autonomous Region, northwest of China), Erdos (Inner Mongolia Autonomous Region, north of China), and Sichuan Base (southwest of China), expand international cooperative exploration
- To accelerate oil and gas transmission construction
- To accelerate the establishment of national strategic oil reserve system

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Great importance to renewable energy

- To enhance wind power through large wind power to build series of tens GW-level wind farms
- To accelerate biomass energy through deployment and construction of straw and forest waste power stations, biomass briquette fuels, biomass ethanol, bio-diesel, etc
- To improve solar power, geothermal and ocean energy
- To adopt preferential tax and finance and investment policies such as mandated market share, incentivize the renewable energy production and consumption to improve the proportion of renewable energy of the total primary energy

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Improvement of Rural energy capability

Follow the principle for “Diversified Development according to Local Situations”

- To accelerate small hydropower and rural power grid construction, focus putting on wind power, biomass energy, solar energy for urban and rural areas.
- To improve rural small wind power, household biogas, solar water heater and solar oven.
- To build and pilot “Green County”
- To solve the electricity consumption for remote area

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(3). Optimize Pricing Mechanism for Resource Products

- To increase price of resource products and to incorporate external cost into price of resource products for the purpose of resource protection and energy conservation
- To improve pricing and charging mechanism for energy and resource products by quality and/or quantity for the benefit of more conservation and less consumption
- To explore the possibility to adopt ladder price for resource price and orientate energy consumption mode and level.

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(4). Sustain the Strategy “Go-out” and Diversification

- To adopt the strategy of “Big Country, Big Impact” from perspectives of politics, economy and diplomatic to improve the relationship with the main oil export countries all the world for the multilateral benefits
- To exploit new import sources to address the limitation by single channel

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(5). Build Emergency Warning Mechanism for National Energy Security

To establish the energy security mechanism tailored to china situations as well as combined the world development trend, which cover:

- Regulatory mechanism
- Implementation mechanism
- Organization and support mechanism matched with international competitiveness
- International cooperation mechanism

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Thanks!

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