Business Risk Management of China Joint-venture
Gas Companies

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(上接A1版) 在具體數據上,由於生產資料

息口方面, 券商預計2004年及2005 步伐放慢,去年只有27點子,故預計 增長特頭,可能可達50點子至100點子

口競爭力、給西方國家造成了損害 年美國網幣項目和財政出現巨額雙別 以百億計的熟錢湧入國門

硬。去年2月G7會議上,日本提出人 决。今年10月中國財政部部長金人屬 率。而國家外匯管理局多次發文,對

與此同時,推動外匯流出的舉措

事實上、調整人民幣匯率不僅有外力・亦有 亦言,人民幣匯率制度的個化可能給銀行和企業 大的潛在風險,人行公告亦多次強調,彈性匯率

Economic Growth in China

及六月美聯儲局啓動了加息周期,環球經濟因其磷強健、雇用

了韌性。世界經濟仍處於溫利

踏入O五年,美國的聯邦 年增長可達5.2%。至於歐洲區

的干預陰影下,年內不排除會有較大的技術 性調整,匯價波幅較大。

國實質國內生產總值繼今年首季及 第二季同比增長9.8%及9.6%後, 第三季再增長9.1%。首三季的同比增幅 為9.5%。同期佔國內生產總值13.5%。 55.4%及31.1%的第一、第二及第三產

對外環節依然是中國經濟增長的火 車頭,今年首九個月,出口總貨值達

比增長13.0%。同期城鎮家庭人均可支配 收入舆農村家庭人均現金收入同比上升 11.4%及17.1%,至7.072元人民幣及2.110 元人民幣,反映自去年九月底以來,城 鎮與應村的收入差距推一步拉關。

原本預測中國今年全年國內生產總值增

中央政府為了抑制去年開始火煉上 升的固定資產投資而採取的多項宏調措 施已初見成效。固定資產投資的同比增 幅;由今年首季的43.0%及上半年的 28.6%放慢至首九個月的27.7%。以政府 致力打壓的水泥,鋼鐵與電解鋁行業為 例, 前二者今年首九個月的按年計投資 增長步伐放緩至58.0%及41.7%,後者更 錄得6.5%按年跌幅。同期房地產投資的 按年增長率亦放緩至28.3%。

房地產市場的投資活動仍算健康: 方米,同比增長9.5%。同期銷售面積的 增長更加強勁,同比上升19.3%至1.82億 平方米,產銷率由一年前的0.99上升至 1.08。二〇〇三、〇二與〇一年此數字分 別為0.82、0.77及0.76。反映物業價格走 勢的全國房屋銷售價格指數,在今年第 一季及第二季同比上升7.7%及10.4%後 第三季爬升9.9%。

房地產市場仍平穩

雖然個別城市如重慶、南京、寧 波、青島、上海和瀋陽的樓價連續四季 錄得 雙位數增長,但總體趨勢顯示房地 產市場的發展依然平穩。樓價、地價與 和金的按年上升步伐由今年上半年的 9.1% 9.5%及0.8%加速至首九個月的 9.4%、10.2%及1.2%。 房地產業過熱的遊 象只在若干區域性市場出現。

中國人民銀行由十月二十九日起把 融機構的一年期存、貸款基準利率上 調27點子,至2.25%及5.58%,其他的檔 次的存、貸利率亦向上調整1至81點子。 中長期利率上調幅度比短期的為大。此 外,人行又放寬人民幣貸款利率浮動上 限,並允許人民幣存款利率下浮。

以市場手段調控經濟比行政手段更 為可取,因為前者令資源得到最有效的 從而抑制國內特別是屬地產業的過度投 資情況。在國內仍處於實質負利率的情 况下,人行是次加息可能只是連串加息 行動的開始。

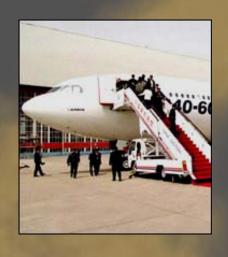
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Side-effect of Economic Growth

Energy Inadequacy

Pollution







Severe Air Pollution in China

CO₂:

('00 Mn tons of carbon)

3.94 (1980)

8.32 (2001)

Acid Rain (pH value):

30% of the territory
Annual pH below 5.6
(2001)

Primary Energy Consumption of China

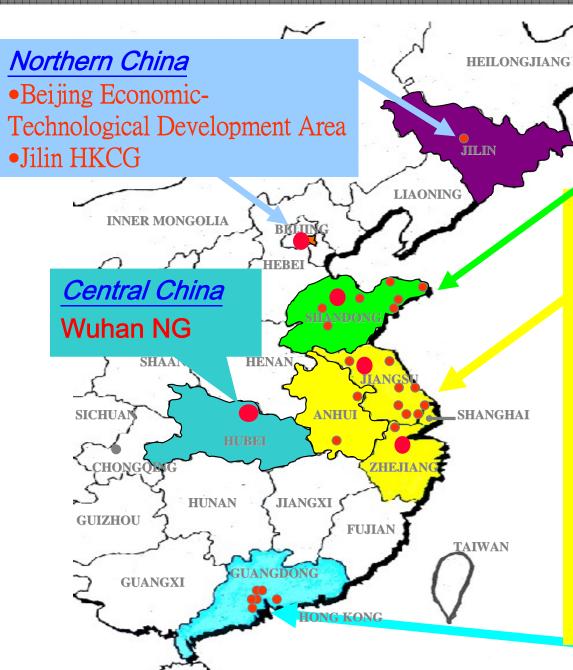
(2000年)

PEC	World Average (%)	China (%)	
Coal	27	67	~6% in 2010
Oil	40	23	~10% in
NG	23	2.8	2020
Nuclear	7	0.2	
Hydro	3	7	

Natural Gas: Leading Role in China's Energy Development in 21st Century



Towngas mainland JVs expansion



Eastern China

- Nanjing HKCG
- •Huzhou HKCG
- Suzhou HKCG
- Yixing HKCG
- •Zhangjiagang HKCG
- •Changzhou HKCG
- Maanshan HKCG
- Taizhou HKCG
- Tongxiang HKCG
- •Wujiang HKCG
- •Xuzhou HKCG
- Danyang HKCG
- •Anqing HKCG

Shangdong Province

- Qingdao ZJ HKCG
- Qingdao DY HKCG
- Jinan HKCG
- Longkou HKCG
- Weifang HKCG
- Weihai HKCG
- Zibo HKCG
- Taian HKCG

Guangdong Province

- Shenzhen groups
- Panyu HKCG
- •Zhongshan HKCG
- Shunde HKCG
- Dongyong HKCG





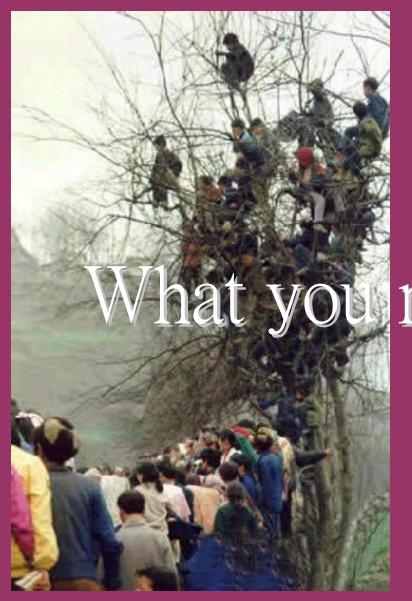


Are all things bright and beautiful as you seen at the moment?











What you may see there...



Risks of Joint-venture

- Ever-changing Economic
 Situation
- Uncertainty of Investment and Political Policy
- Cultural Difference

Need for effective business risk management!

Murphy's Laws

• If anything can go wrong, it will •

 Let to themselves, things tend to go from bad to worse

"The first duty of business is to survive and the guiding principle of business economics is not the maximization of profit – it is the minimization of loss"

Peter Drucker

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A matter of business sustainability!

Compensation and medical expenses (Direct cost: a small portion!)

- Medical
- Working man-hour loss
- Compensation

Indirect cost (ranged from 1:6-53)

Loss of operation licenses
Loss of production capacities
Loss of building properties
Loss of production equipment
Legal expenses
Materials for emergency
Administration cost
Investigation cost

Explosion of Jilin Benzene Manufacturing Plant (13/11/05)



Direct Consequence

Local news reported that:

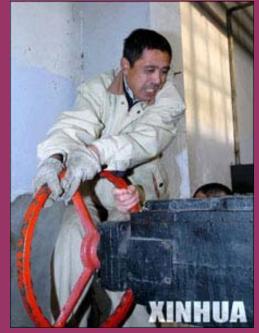
Injury: ~70 people

Missing: 6 people

Log-on Consequences



Contamination of Songhua River



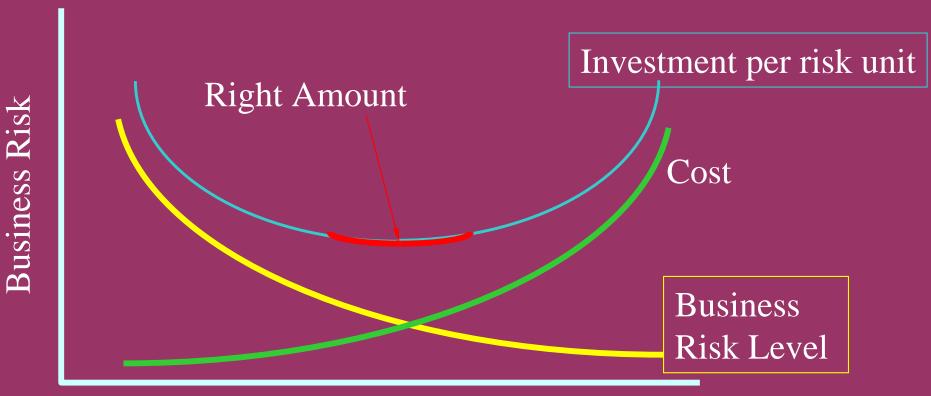
Interruption of town water supply in Harbin city affecting millions of citizen

Huge Amount of Compensation & Cleanup Cost!

Adverse effect in Russia's downstream cities

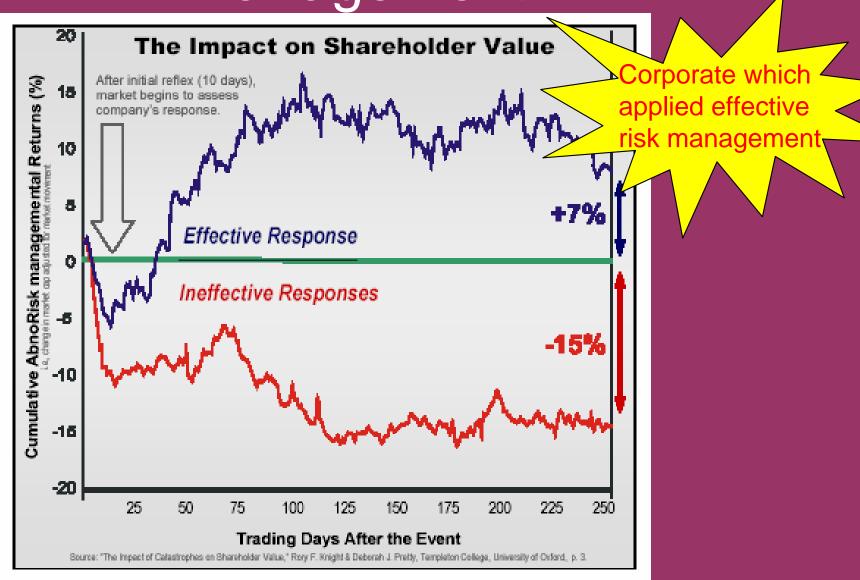


Cost-effectiveness of Risk Management Investment



Expenditure for risk mitigation measures

Benefit of Business Risk Management



Sources from: The impact of catastrophes on shareholder value by Rory F. Knight & Deborah J. Pretty. Templeton College, University of Oxford

The Case For Business Risk Management

In order to be successful and maintain their strategic advantage, companies should demonstrate to shareholders, stakeholders, government and the public at large that:

- They have identified and assessed their critical risks.
- They have the ability to promptly & swiftly react to crisis.
- They have tools, systems and methodologies in place for managing their risks.
- They have a "culture of risk" (e.g. common language, vision statement, etc).
- No hidden risks could severely impede the company's success going forward.

Towngas Business Risk Management System

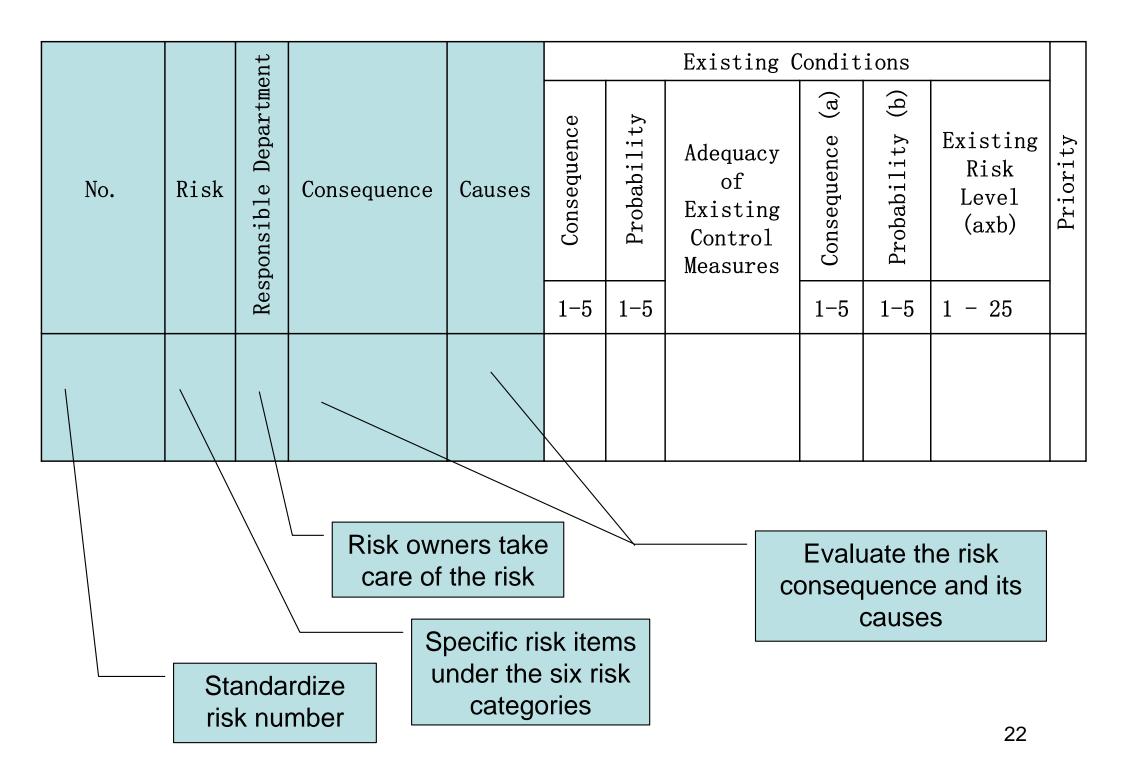


Towngas Risk Matrix (5 categories of consequence)

- Loss of life
- Loss of operation capabilities and/or equipment
- Loss of equivalent capital investment and/or operation income
- Influence on customers / loss of market share
- Magnitude of legal impact and/or public criticism

Business Risk Assessment Process Stage 1

Assess the Current Risk Level



No. Ri		ent	Consequence		Existing Conditions						
	Risk	Responsible Department		Causes	Consequence	Probability	Adequacy of Existing Control Measures	Consequence (a) Probability (b)		Existing Risk Level (axb)	Priority
		Res			1-5	1-5		1-5	1-5	1 - 25	
											/

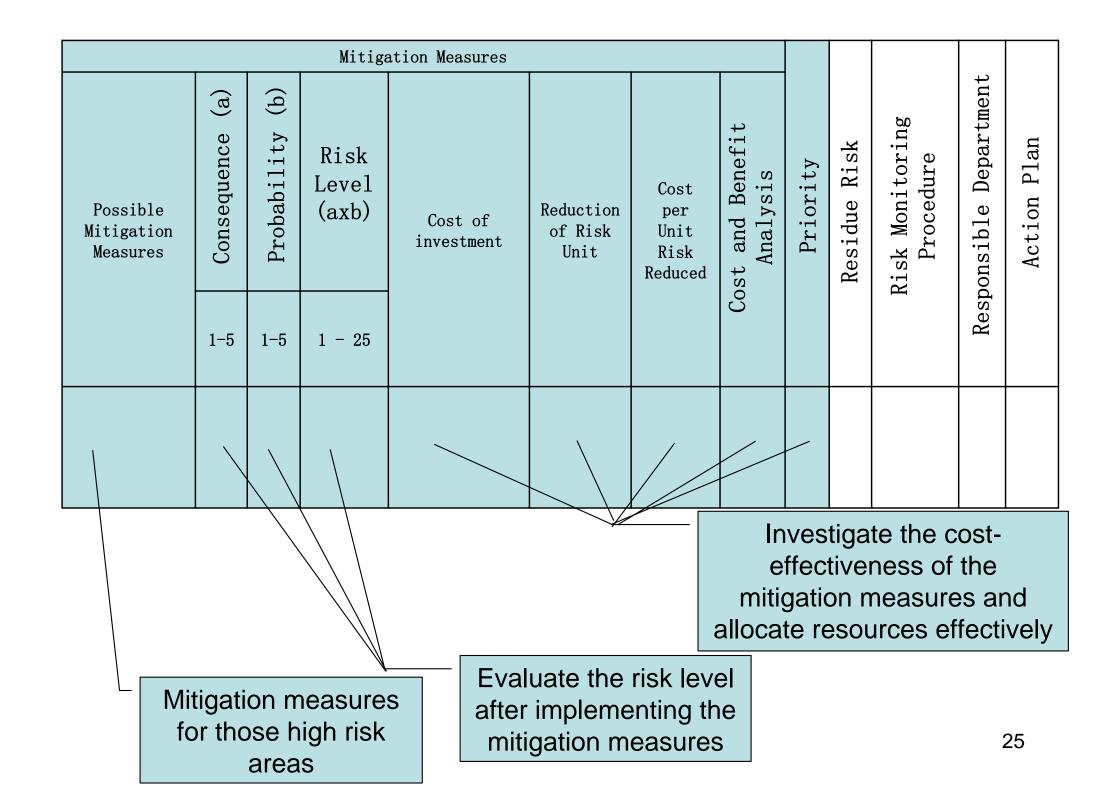
Evaluate the consequence and probability based on Towngas risk matrix

Take into account the adequacy of existing control measures

Assess the current risk level and risk ranking

Business Risk Assessment Process Stage 2

Cost-effectiveness of Risk Mitigation Measures and Monitoring Strategies



	Mitigation Measures											
Possible Mitigation Measures	Consequence (a)	Probability (b)	Risk Level (axb)	Cost of investment	Reduction of Risk Unit	Cost per Unit Risk Reduced	Cost and Benefit Analysis	Priority	Residual Risk	Risk Monitoring Procedure	Responsible Department	Action Plan
	1-5	1-5	1 - 25								Resi	

Assess the residue risk level of the organization and define risk monitoring procedures and action plans



Regular feedback and report of the current status are essential!

Key factors of success

JVs must be:

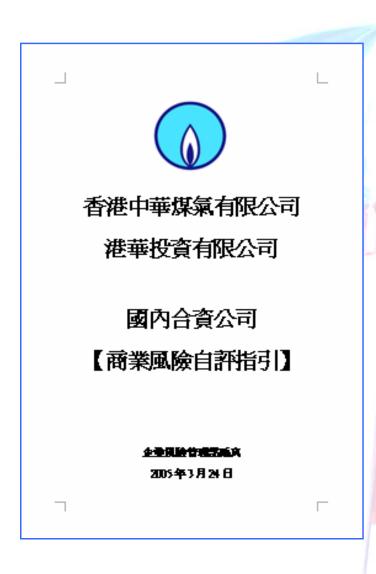
- be fully aware of key business risks associated with their operations
- fully understand and accept the recommended approach to treat their risks cost-effectively and systematically
- acknowledge benefits of gaining a competitive advantage in reducing their key business risks and possible consequences of failing to do so

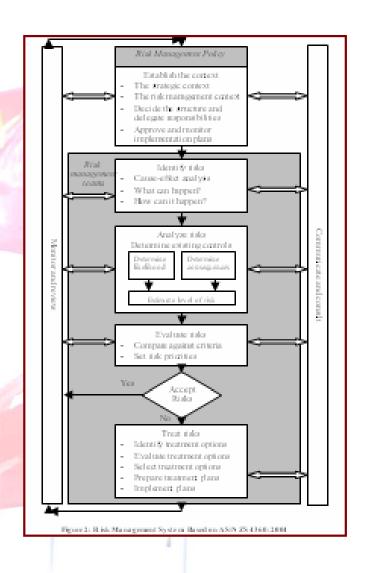


Roadmap for Implementation of BRM

- Establish BRM policy, structure and organization,
- BRM knowledge and technology transfer including workshops,
- Establish inventory of existing risk profiles of various JVs,
- JVs to carry out business risk assessment and management,
- BRM Implementation
- BRM monitoring and review.

Guidelines and Procedures





Generate reference case

Pilot business risk
 assessments in a typical
 JV with the guidance of
 steering committee



Training and Workshop

- Organize training, workshops with hand-on exercises
- Introduce the concept and benefit of business risk management
- Acquire the buy-in of JVs management
- Transfer the knowledge and technology about the business risk assessments







Conclusions

- Improve business sustainability of the mainland JVs
- A culture of proactive risk management has been successfully instilled among all JVs.
- Risk management knowledge and technology has been transferred to JVs management through workshops.
- JVs management applied the risk management strategies and techniques to solve problems.
- Each JV has compiled its risk register for monitoring its overall risk profile.

Conclusions

- A standard methodology for identifying, assessing, managing and monitoring risks has been established for all JVs.
- Business risks have been identified and a specific risk owner has been appointed for reporting and monitoring each risk.
- A great reduction in the chance that risk management lessons are learned through major accidents or incidents. Furthermore, the JVs will have greater confidence to manage their own risks effectively.

