Oil Security and Collaboration in Northeast Asia

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Challenges for Northeast Asia Oil Security

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Challenges for Northeast Asia Oil Security

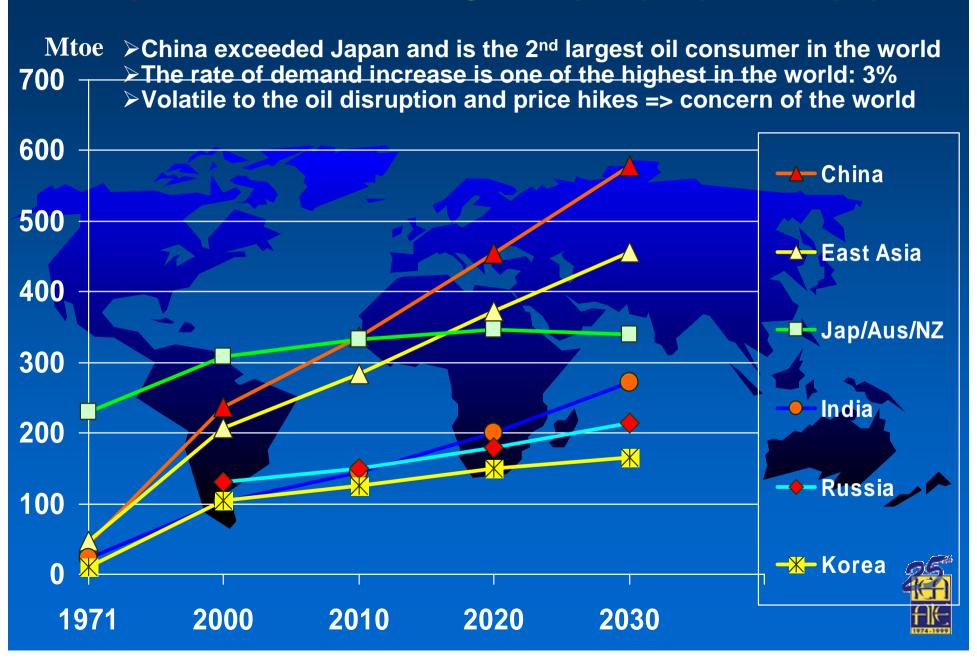
1. China factor

2. Supply security

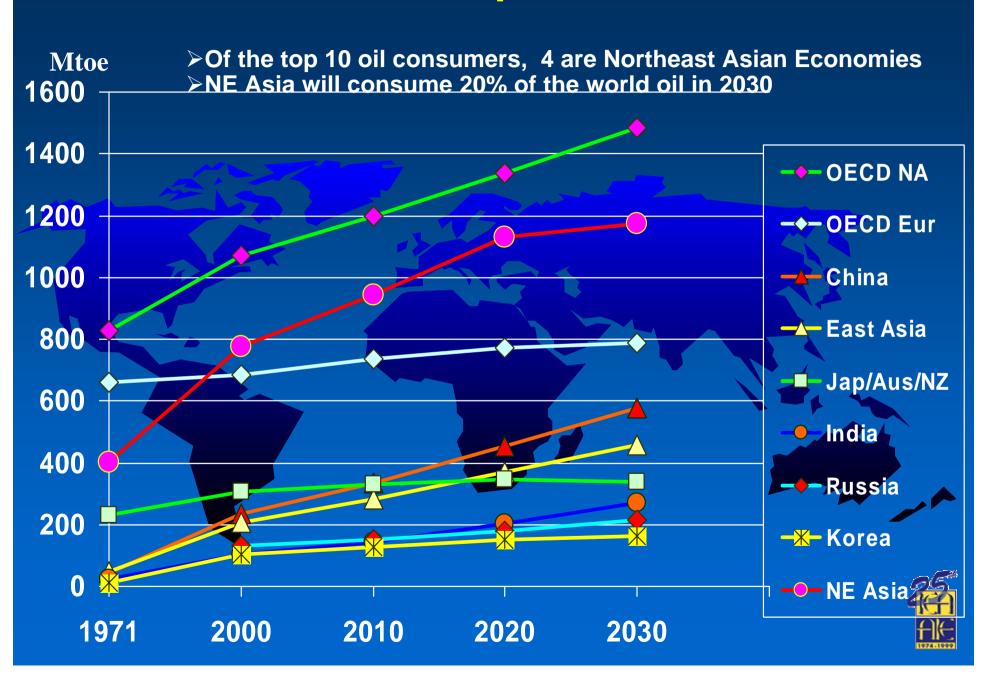
3. Diversification

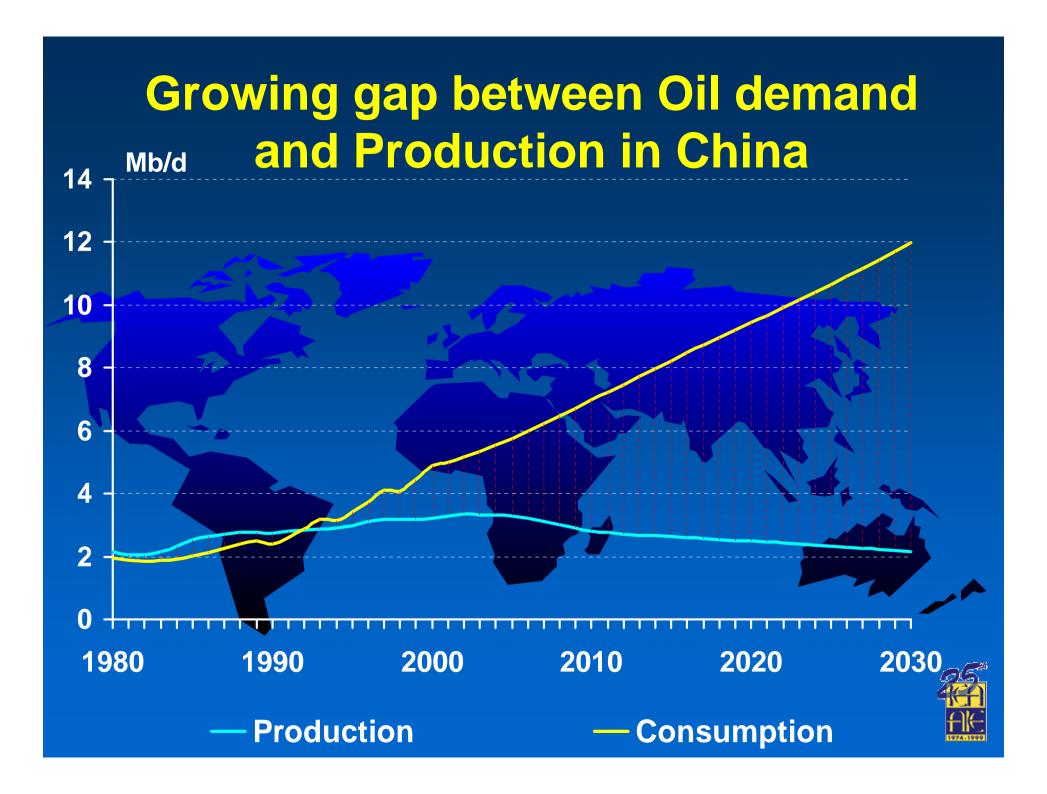


1. China Factor: Oil Demand in Asia

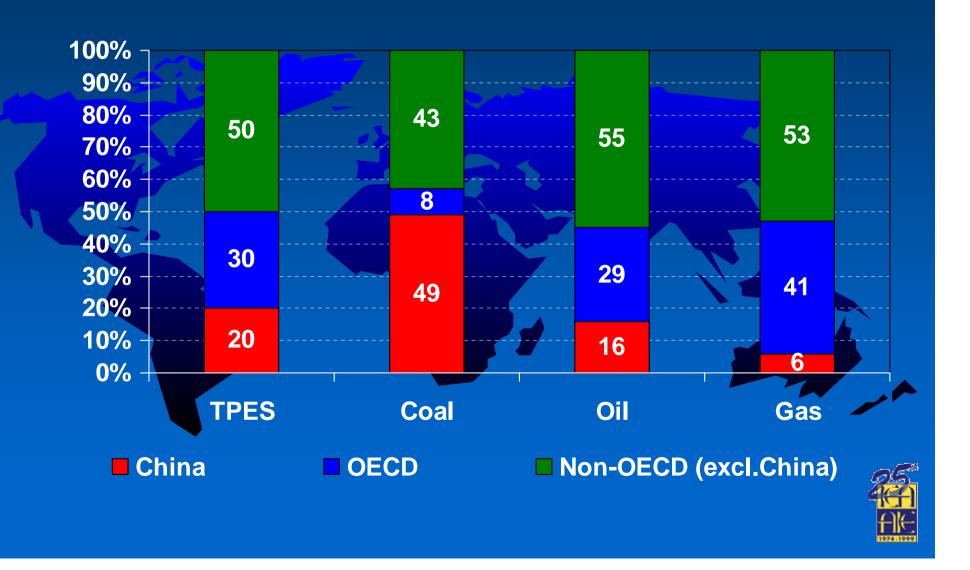


China Factor: Impact in NE Asia

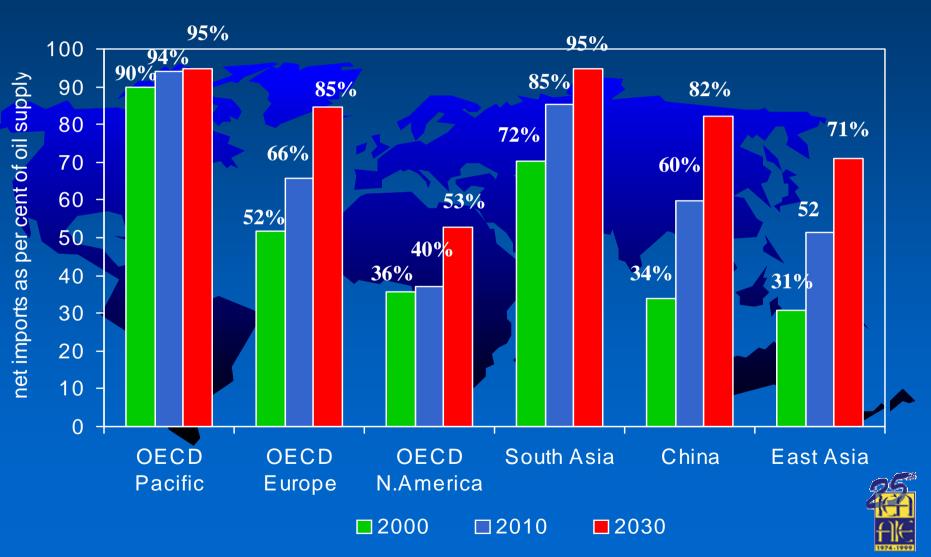




China's Impact on Global Primary Energy Demand, 2000-2030



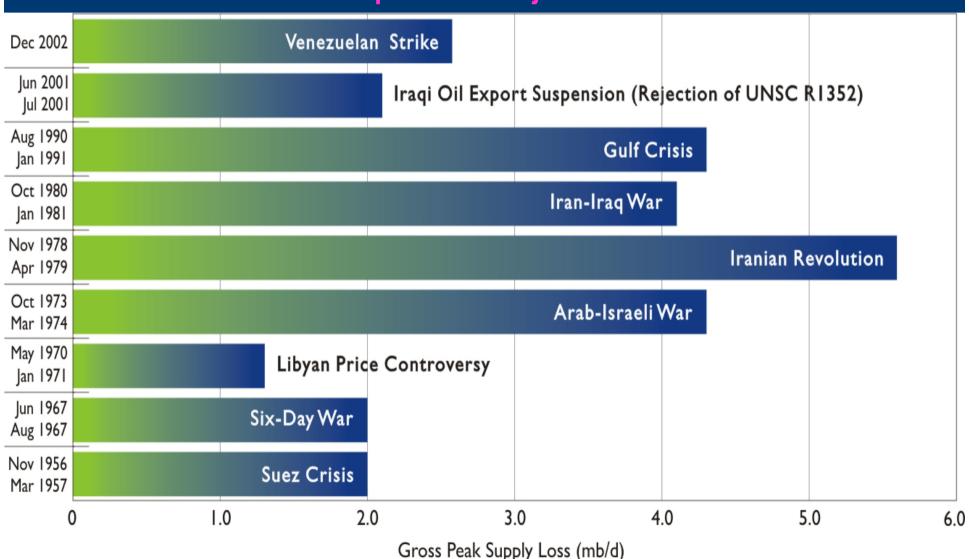
2. Supply Security Increasing Oil Import Dependency



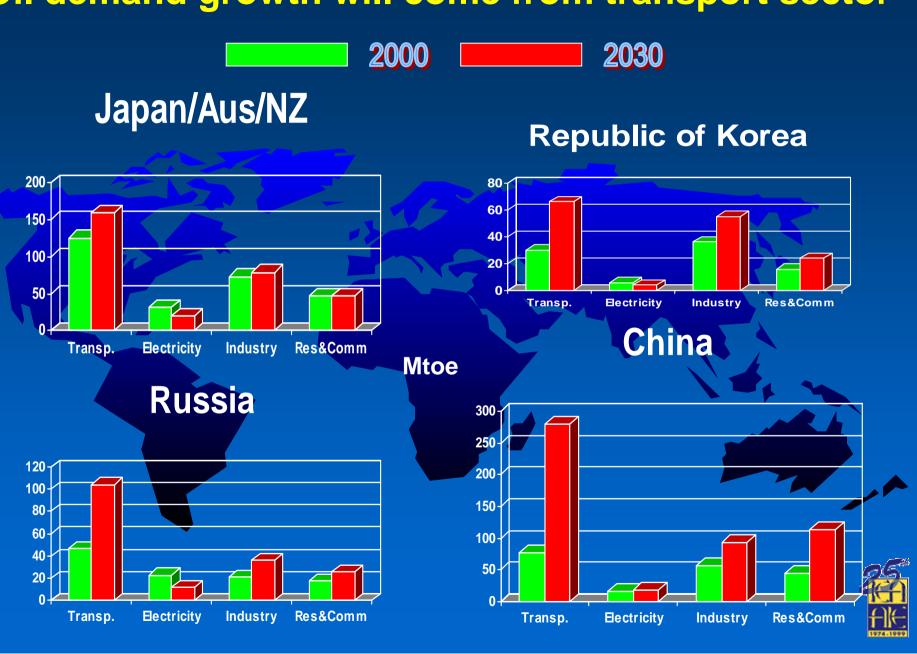
Growing Oil Import Dependence on ME

Vulnerability to price volatility and supply disruption

Disruptions of Major Crisis



Oil demand growth will come from transport sector



Strong Concern on Oil Security in China and India

Total World Oil Stocks: 6.0 billion barrels*

*Excludes ex-USSR, China and South African strategic stocks.

Non-OECD 16% Commercial
45%

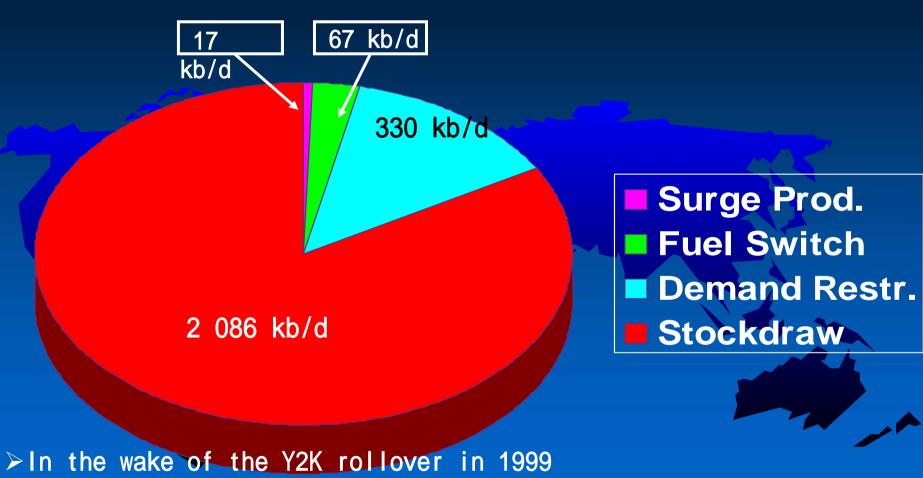
Strategic
21%

China and India: 5 + 5 million tons

= 10 million tons = 6% of OECD Strategic



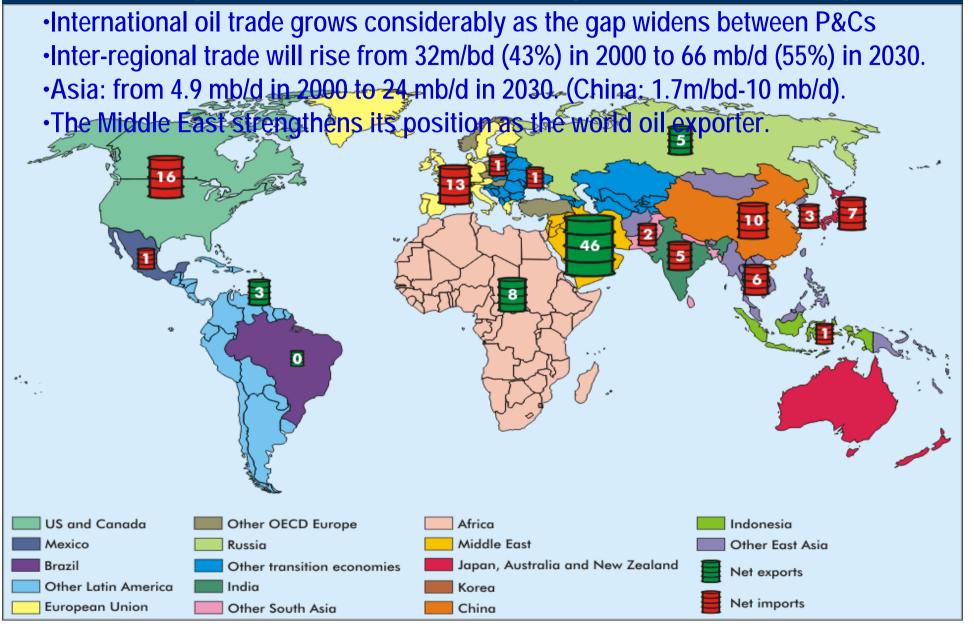
5mb/d Contingency Plan in 1991 Good Model for Other CERM Plan

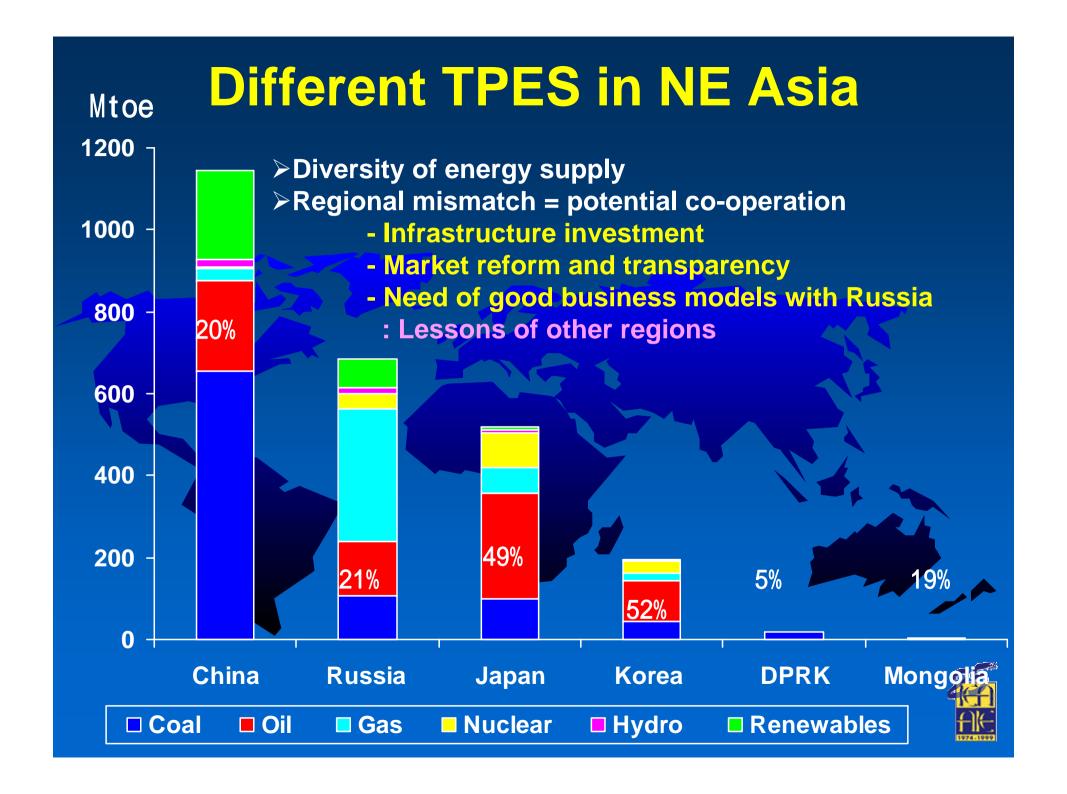


- >Ex-post 11 September 2001
- >Strikes in Venezuela, turmoil in Nigeria and the war in Iraq in

3. Diversification: Regional Mismatch

Growing international and inter-regional trade in energy

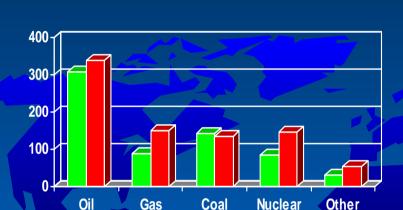




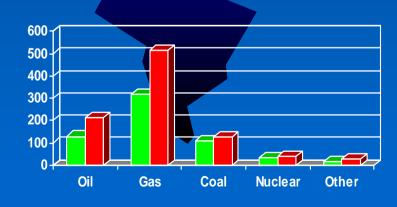
TPES Projection in NE Asia

More diversified in Japan and Korea, more rely on domestic resources in China and Russia

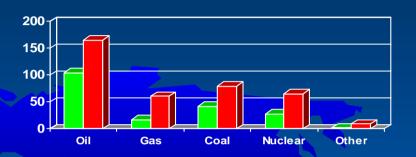




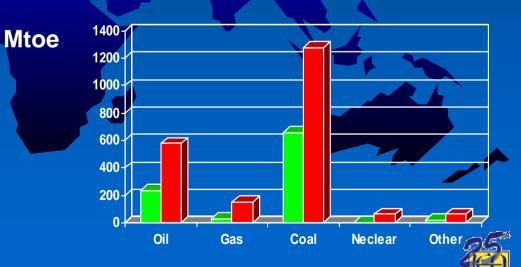
Russia



Republic of Korea



China



2000

2030

Energy Supply Potential from East Russia

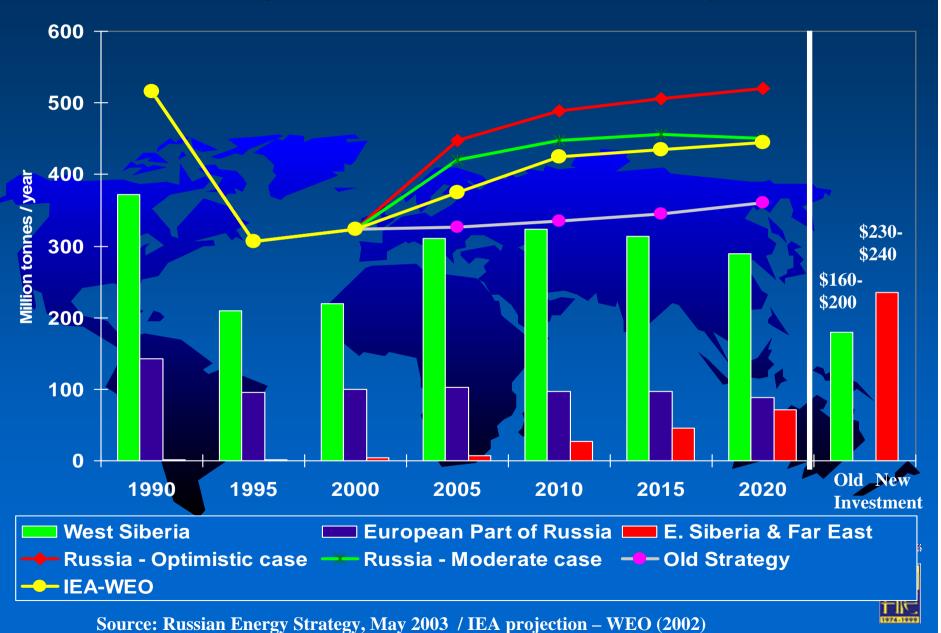
Energy Production in Siberia and the Far East

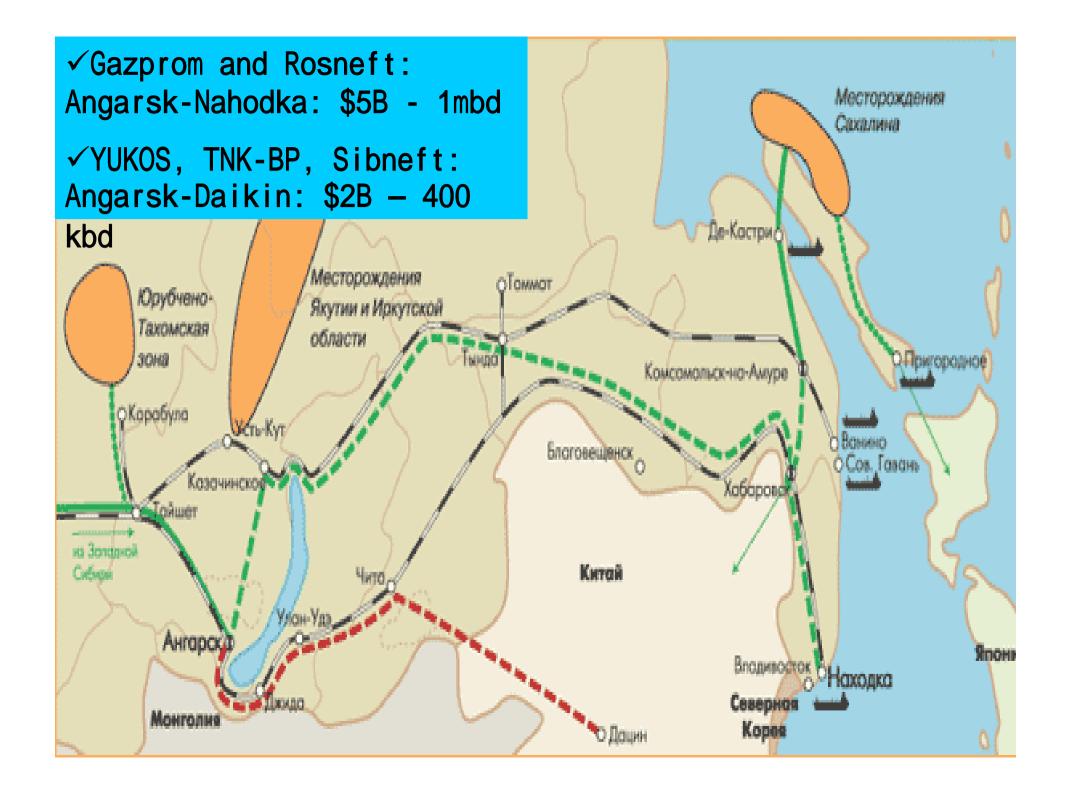
		1999	2000	2010	2015	2020
Primary Energy Production (Mt)	Western Siberia	998	1019- 1064	963- 1033	940- 1017	927- 1023
	Eastern Siberia	78	87-96	105- 133	124- 174	154- 202
	Far East	32	42-49	52-63	67-89	80- 110

- Energy Resources in East Russia
 - Oil (Potential): 14 billion tonnes in East Siberia and the Far East
 - Hydro and Tidal generation capacity: 17.2 GW
 - Natural Gas (proven): 5.4 tcm (12% of total Russian reserves)



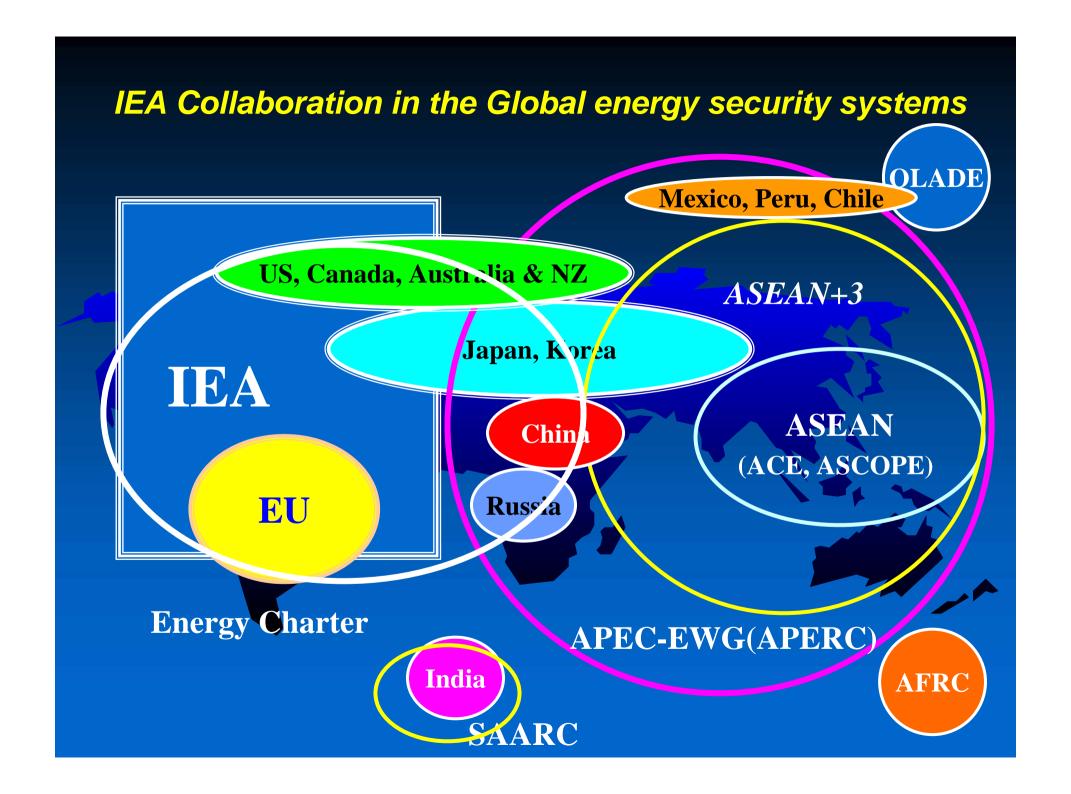
Russian Oil Production Outlook





Ways toward Regional Oil Co-operation and the IEA's Role in NE Asia





Basis for the NE Asia and IEA Collaboration

- IEA Ministerial Communiqué in April 2003
 - Emerging need to collaborate with key NMCs
 - Lessons from the past and share the policy goals
- Japan&Korea + China, Russia as strategic partners with MOUs
- Same challenges and objectives:
 - Oil supply security
 - **Investment**
 - ► Market volatility and economic damage



Co-operation between NE Asia and IEA

- Current and future co-operation
 - Stock Workshops with China (2001&2002), ASEAN+3 (2002), ASEAN (2003&2004) and India (2004) Hotlines
 - ► IEA/KEEI Conference on energy security in March & IEA/KERI Conference on electricity in May 2004
 - Cross-border study on oil and gas in 2005/2006



Suggestions for Joint Work in the Future

- Energy security co-operation with NE Asia and IEA's Emergency Response Measures
 - Experience sharing for energy policy and market reform to foster investment
 - Harmonization of the regional framework with world energy security in real emergency situation
 - => simulation exercise in 2004, joint workshop in the future, etc
- Oil data system and market monitoring
 - NE Asia specific data
 - Information exchange for energy market transparency
 - Producer-consumer dialogue: IEF in 2004 in Amsterdam & EEM in 2005 Paris
- The IEA's contribution to capacity building
 - > Training of experts and statisticians
 - Co-operation with bodies and countries in NE Asia



Government Role for Regional Co-operation

Regulatory & market frameworks

Energy security policies & measures

Research & development

ENERGY & OIL SUPPLY Security

International trade rules

Environmental policies & measures

Producer-Consumer dialogue

Government policies will shape the energy-supply landscape