



### INTERNATIONAL GAS UNION Covers >95 % of World Gas Sales 'Spokesman' of the Gas Industry



Non Members

**Membership from 67 countries and 22 Associated Members** 

Connections are Crucial
"Russian Gas 2005"
Moscow, 29 November 2005





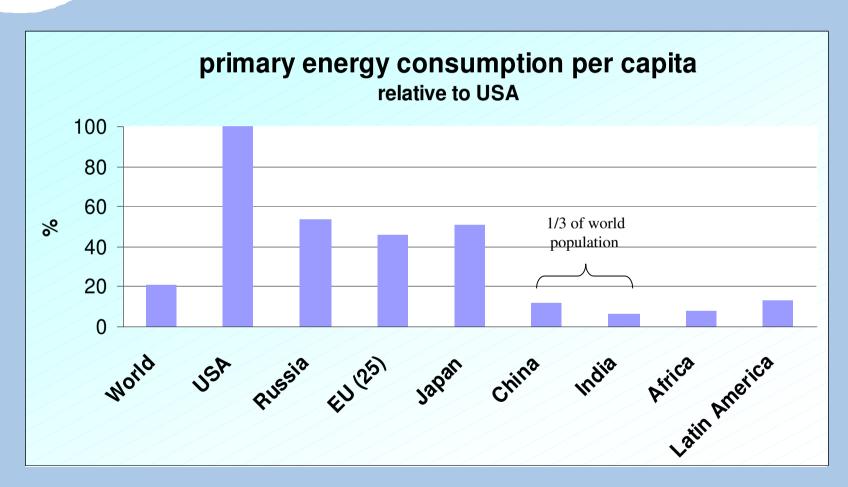
### IGU mission:



- actively promote the technical and economic progress of the gas industry
- improving the competitiveness of gas in the world energy markets, thereby emphasising sound environmental performance, safety and reliability
- promote transfer of technology and knowhow, serving as information clearing house
- maximise value to its members and to gas customers



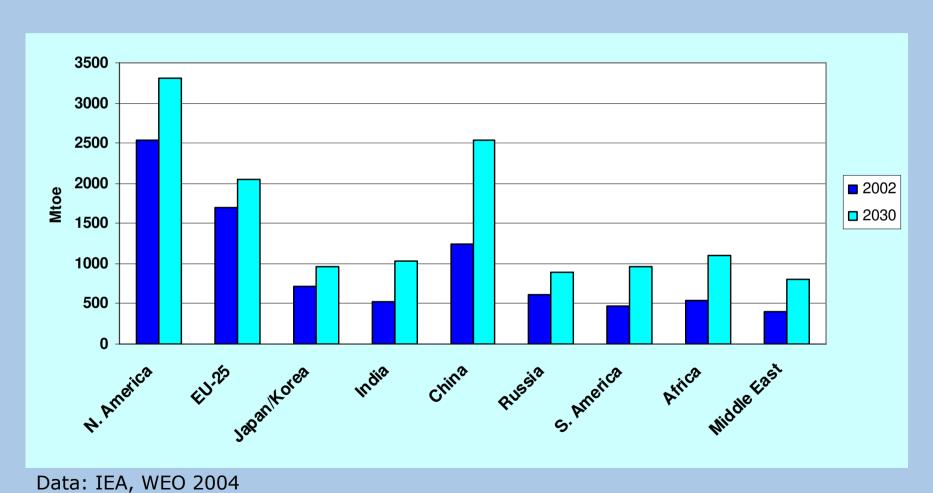
### **Energy Consumption in Perspective**



IEA data year 2002



### Total Energy Demand by Region 2002 and 2030

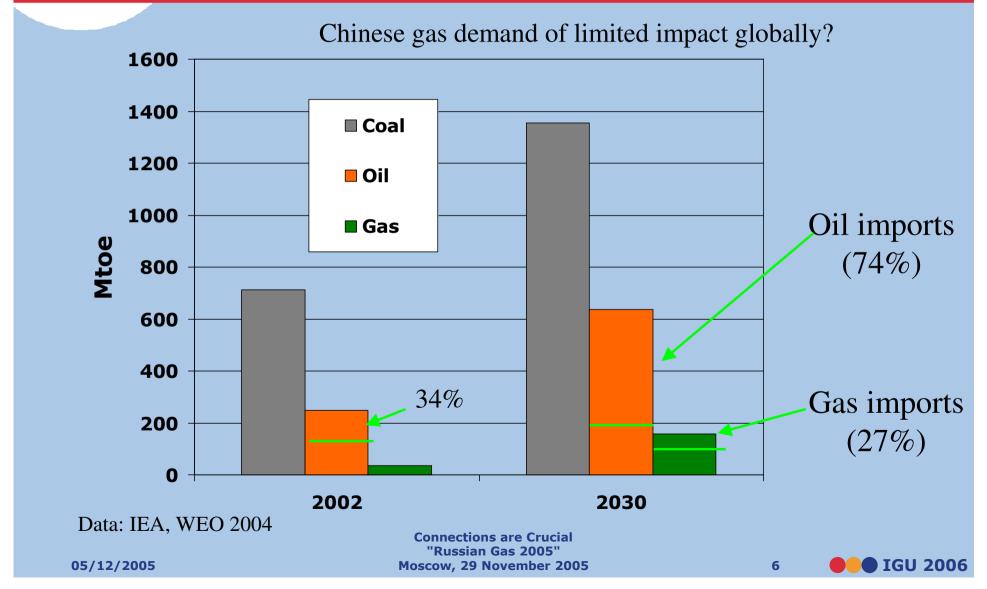


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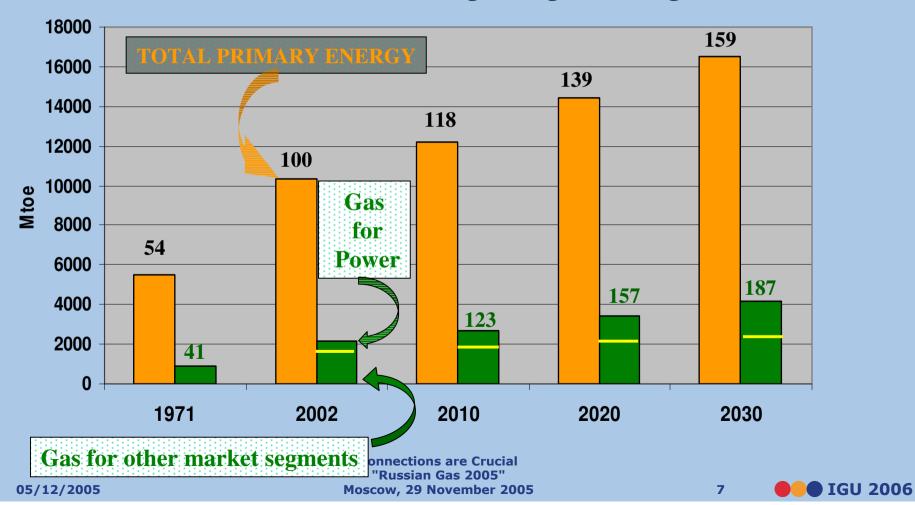
### China hydrocarbon demand





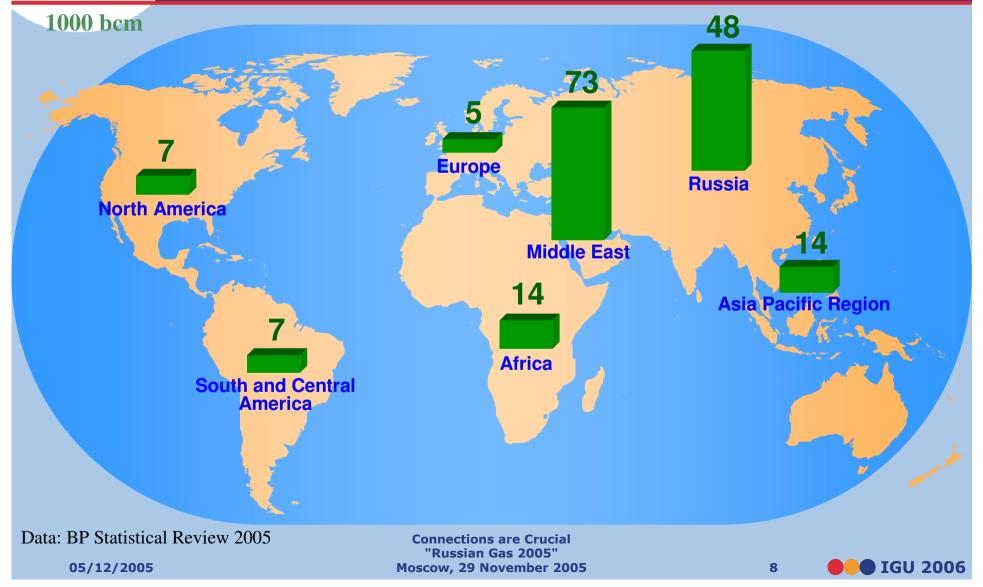
### **Global Energy Demand Forecast IEA**

Growth relative to consumption in 2002 Gas has growing Power segment





## World Gas Reserves Proven 180 Trillion m3 R/P ratio ~66 years





### **Position RF Oil & Gas**

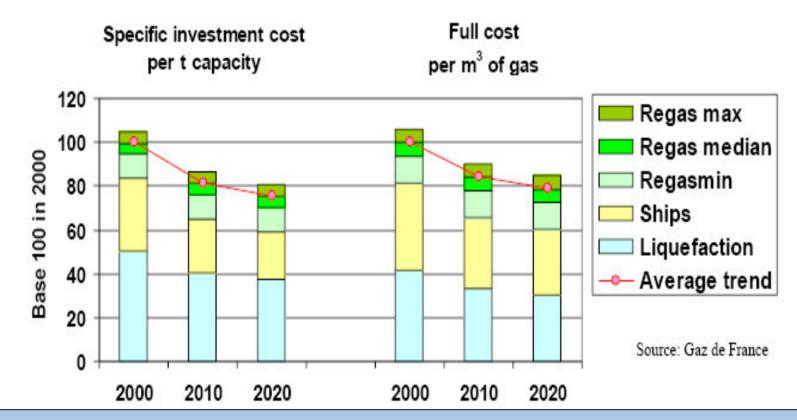
	production	exports	proved reserve	
OIL MTOE	460	300	9.900	
	12%		6%	
GAS BCM	590	150	48.000	#1
	22%		<b>27%</b>	

#### share of global production/reserves

data source: BP stat. Review 2005 and IEA WEO 2004; data for year 2004, rounded

### LNG trumps: decreasing costs





Source: presentation by GdF at 19th WEC, sept. 2004



### LNG paves the way for Global Competition

- LNG is more flexible than pipeline transport and has the ability to connect regional markets
- LNG will compete with pipeline transport: costs have decreased, offers diversification to sellers(and profit optimisation through the spot market).
- As gas demand remains high, gas import regions (Europe, US, Pacific Rim, China, India) will compete with each other for supplies.



#### **Market Models**

### USA, UK, EU(25)

- Competition in gas trading
- Regulated acces to transport and distribution networks
- Long term contracts under pressure

### GAS PRODUCING COUNTRIES

- Production, transport, sales under control of one company
- LT contracts
   preferred to
   gurantee pay back of
   investments



#### RF Gas Exports 2004

#### **148 Bcm**

**Europe West Europe Central/East Turkey** 

86 47 EU25 107

#### **Consumption EU25: 467**

- RF covers 23% of EU25 supply

14

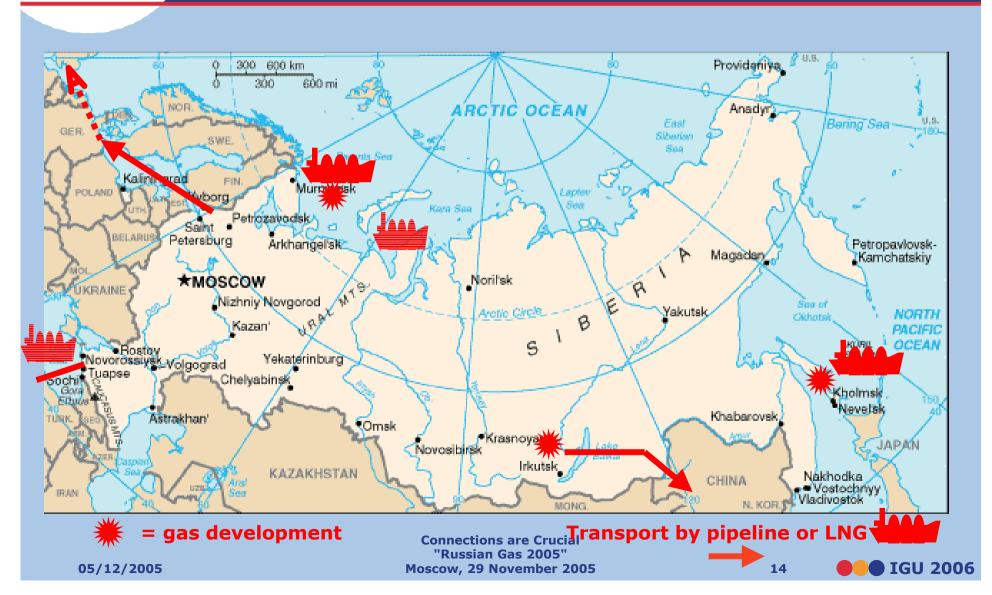
- EU25 is RF's main export market

data source: BP stat. Review 2005; data for year 2004, rounded

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### **Diversification of gas export**





### Impacts on price: Sellers or Buyers Market?

Overall the gas markets will turn out to be a sellers market:

- Strong demand growth
- Diversification of purchases therefore limited
- Investments are delayed
- Exploration and exploitation is difficult and expensive in important areas
- Bottlenecks in LNG-chains till 2008-2010
- Access to promising acreage is limited

# Thank you for your attention See you in Amsterdam! 23<sup>rd</sup> World Gas Conference and Exhibition June 5 - 9 2006