### 7th Energy Regulation & Investment Conference



# "Supply and Demand Security from a Risk Management Perspective"

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**International Gas Union** 



Budapest, Hungary April 21-22, 2008



#### What counts in the end??



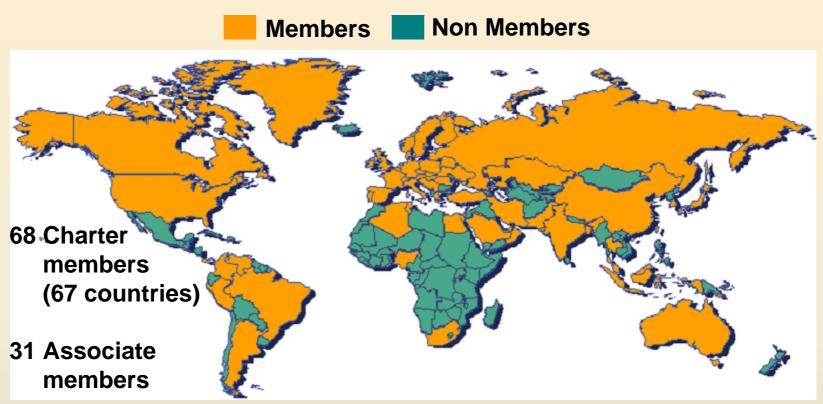
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- Overall Gas Outlook
- Supply Security
- Demand Security
- Managing the Risk



### IGU represents around 95% of all gas sales

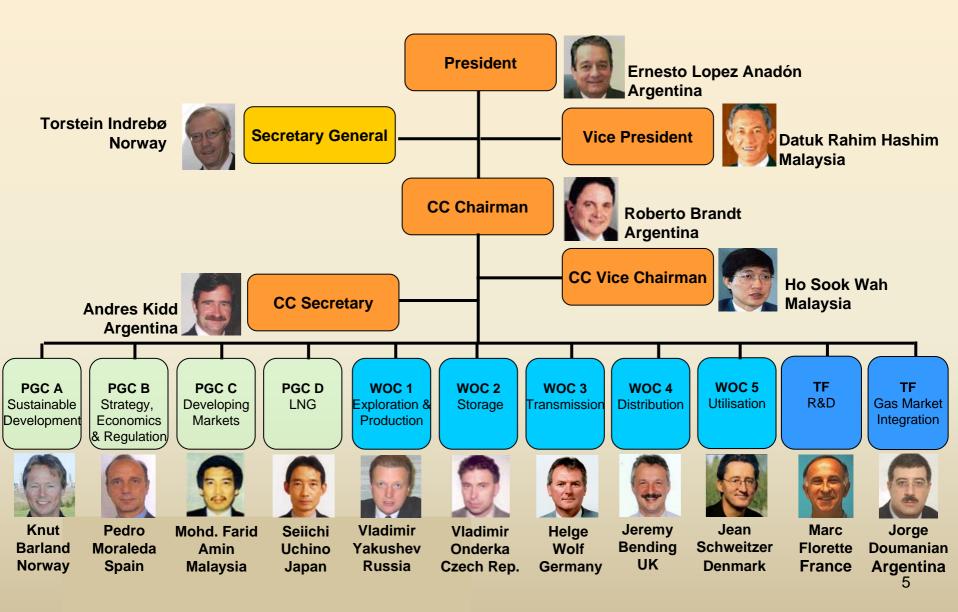


Also gas <u>companies</u> can become member and benefit from IGU's vast networking possibilities



### Experts from all over the world are represented in the technical team

net.org





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### Our world needs energy

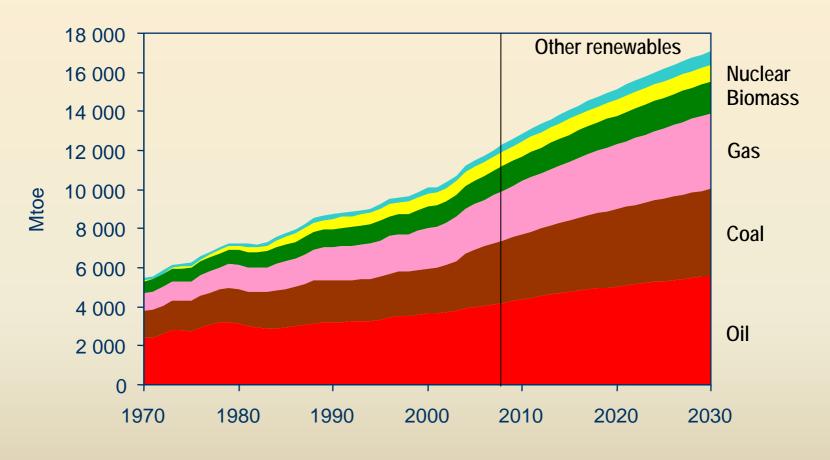


Secure, reliable, affordable energy services with minimal environmental impact



- Population growth from 6 to 9 billion in 2050
- Urbanisation continues
- Increased level of global prosperity
- Environmental consequences
- Times of "easy oil & gas" over
- Fossil fuels will dominate next decades

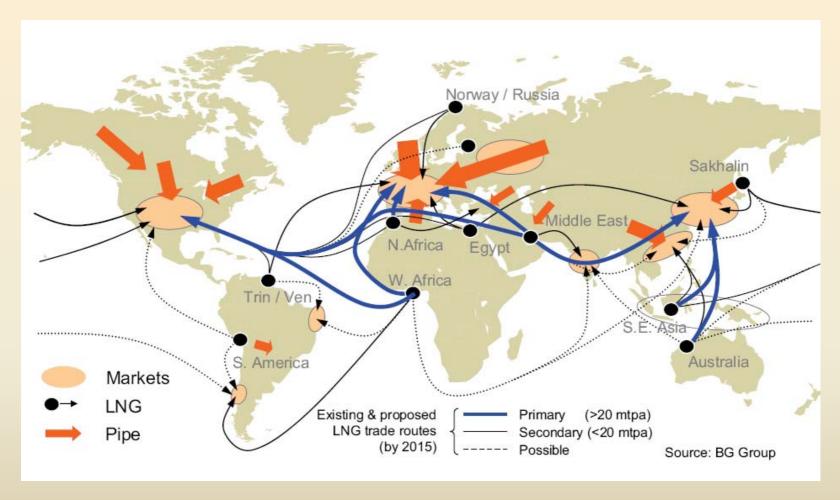
### IEA forecasts growing gas demand in the future



Source: OECD/IEA - 2007



### A global gas trade is evolving

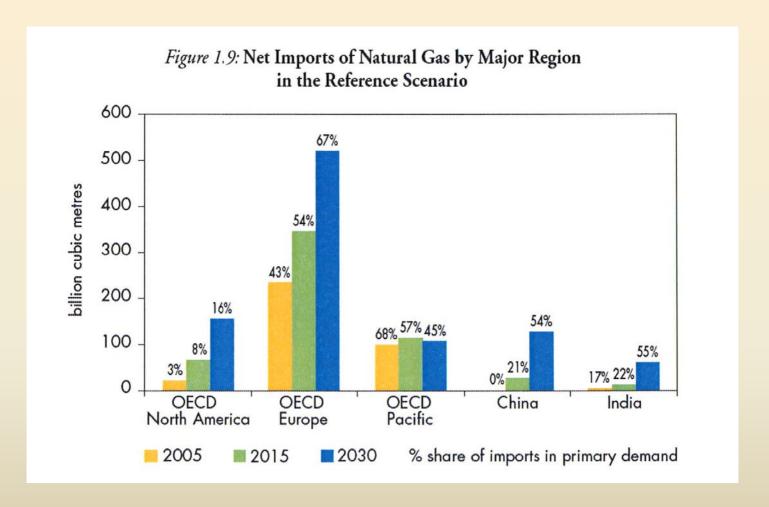




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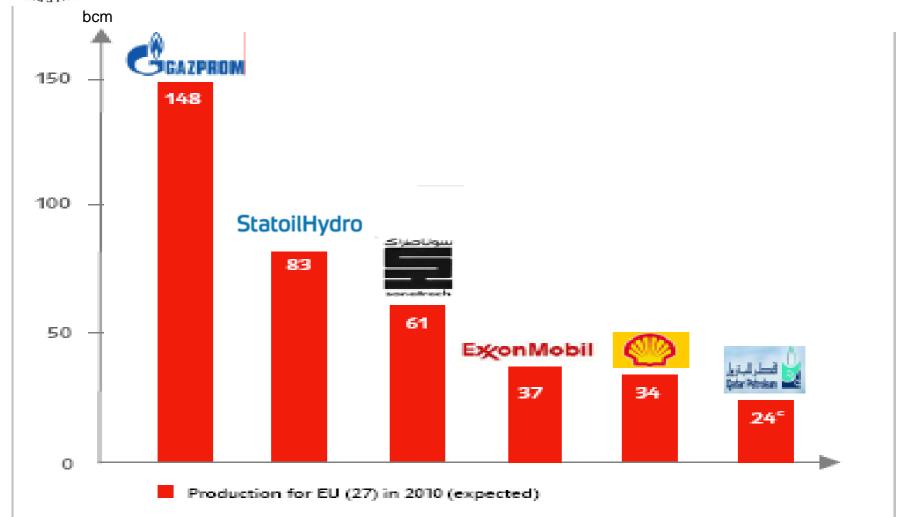


### Import dependency is rising





### Six main producers supply approx. 69% of the gas needed in the EU27 in 2010



Source: 2005 Company Reports; estimated figures based on general business information Gas supplies of Qatar Petroleum to the EU 27 include deliveries from majority interests in Oatareas (approx 70%) and RasGas (approx 70%)



#### Who gets access to resources?



- Domestic demand versus export markets
- National policies investment levels
- National policies acreage
- National policies environmental concerns

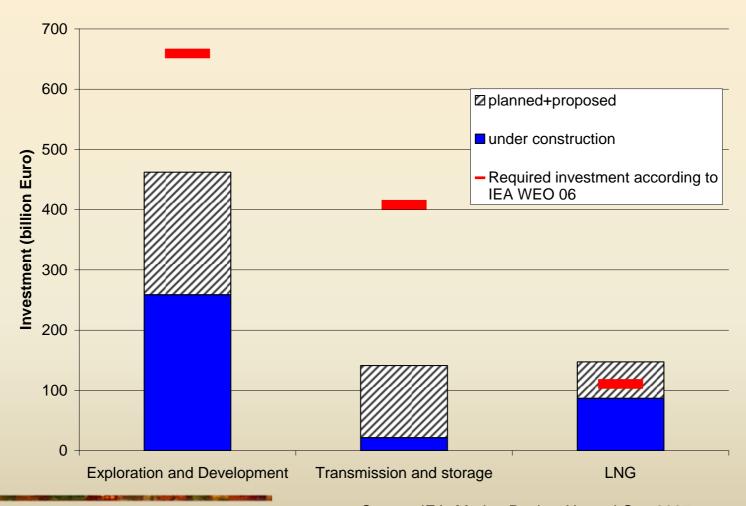


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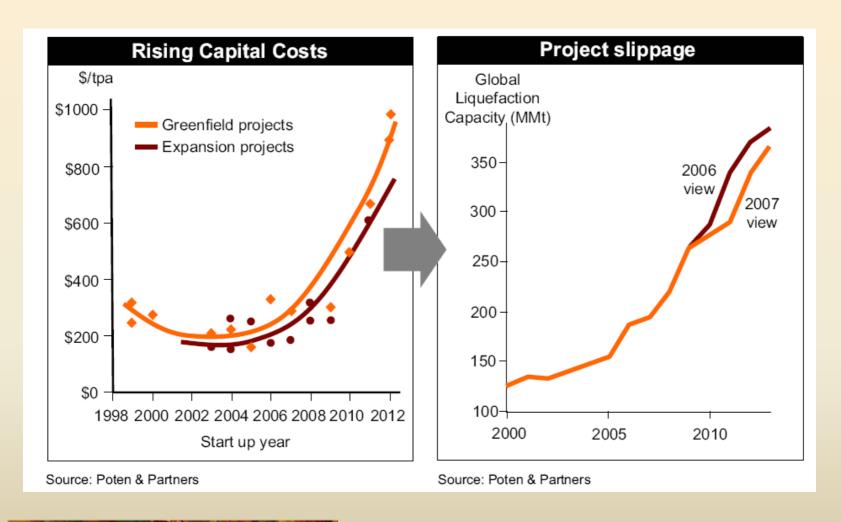




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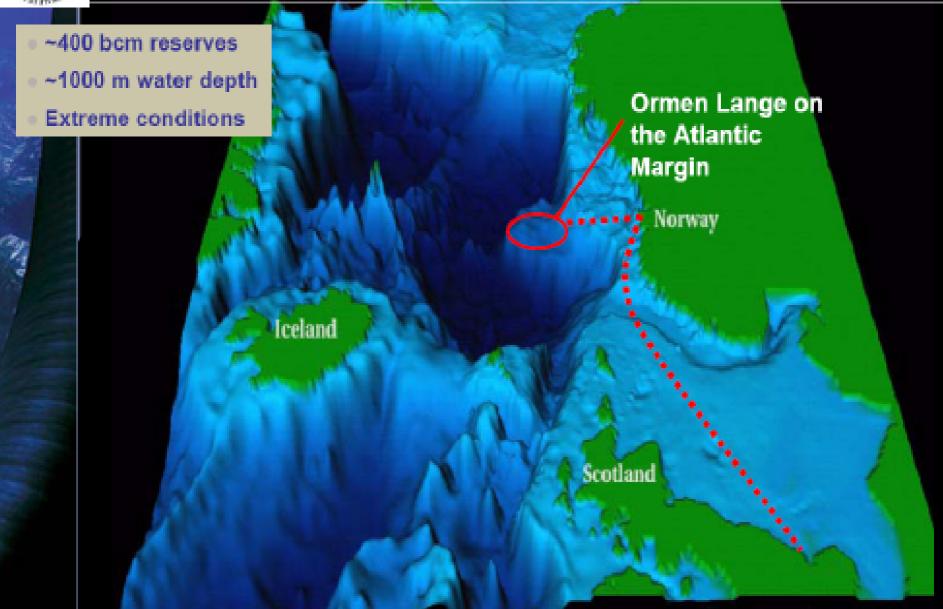


#### Rising costs for LNG Projects





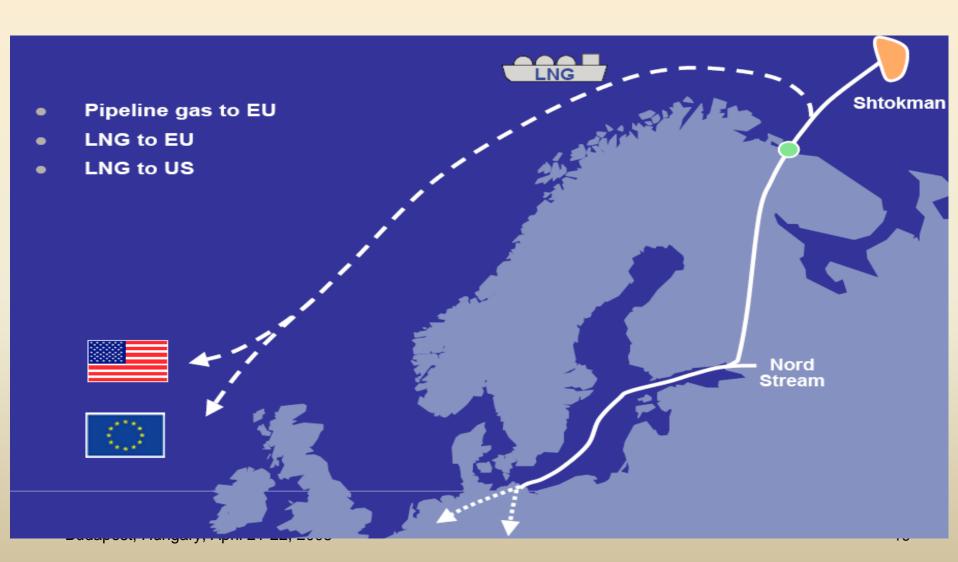
#### Ormen Lange – the new gas giant for Europe







### The Shtokman-project - risk management critical





### Nabucco - Connecting Caspian Region with Western European Markets



Source: www.nabucco-pipeline.com



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### Investments in energy infrastructure require successful risk management

### Evaluation of long term horizon of projects (20-40 years)

- Regulation of business
- Cost control: Return on investments
- Environmental policies
- Development of gas price (indexation: Oil, Henry Hub, NBP)



## Thank you for your attention!

See you in Buenos Aires!

24<sup>rd</sup> World Gas Conference and Exhibition October 5 – 9 2009





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