



International Gas Union



Some Statements of IGU

Torstein Indrebø

Secretary General of IGU

**ECE Working Party on Gas
Geneva, Switzerland**

22 January 2008





Agenda



- **About IGU**
- **Globalisation of the gas market**
- **Climate – benefits of gas**





IGU Secretariat moved to Oslo!



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**International Gas
Union
c/o StatoilHydro**

www.igu.org





IGU Secretariat and contactpersons



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Secretary General

Torstein Indrebø



Senior Advisor

Hans Riddervold



Advisor & Webmaster

Erik Gonder



Assistant to the Secretary General

Barbara A. Schmid



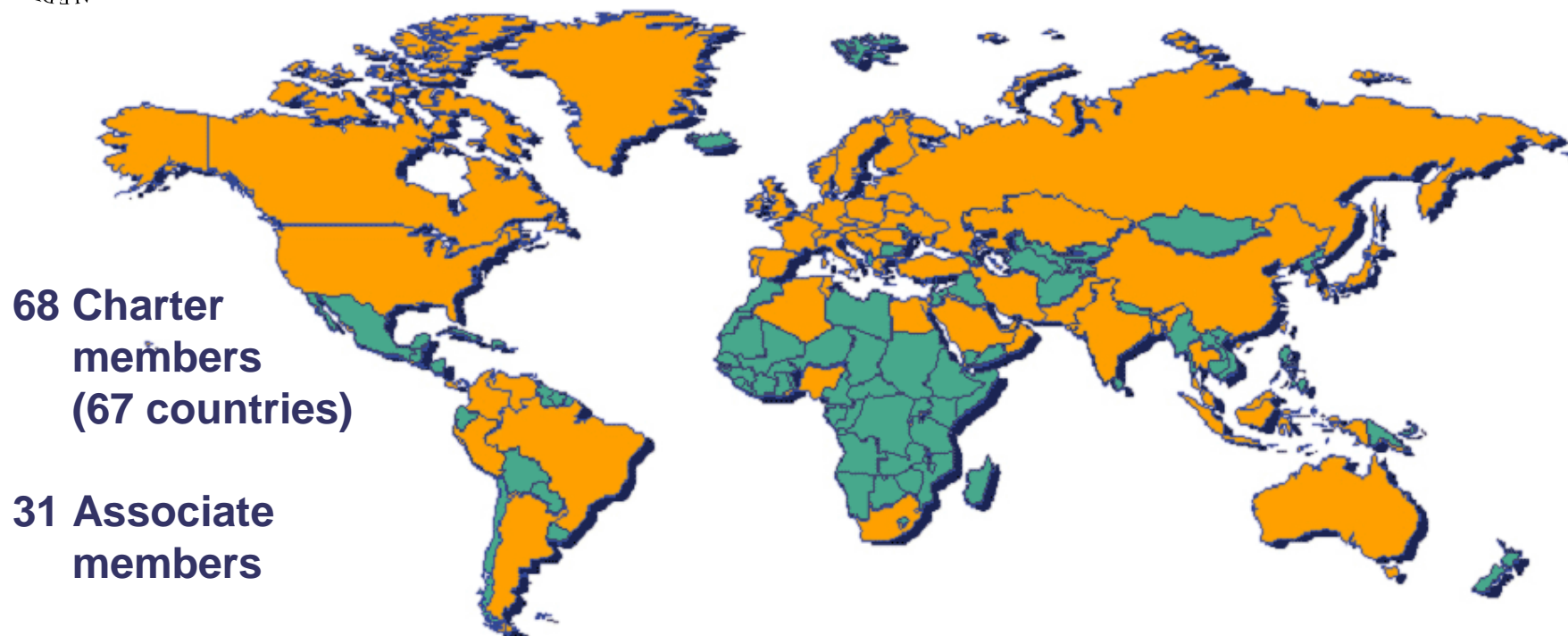


IGU represents around 95% of all gas sales



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Members Non Members



68 Charter
members
(67 countries)

31 Associate
members

Also gas companies can become member and benefit
from IGU's vast networking opportunities





IGU serves as a spokesman for the gas industry world wide



- World wide non–profit organisation (77 years)
- Promotes technical and economic progress of the gas industry
- Different types of membership and co-operations
 - Charter members
 - Associate members
 - Affiliated organisations
 - Supporters
- Fee for Charter- and Associate Members € 4,500





IGU offers various benefits to its members



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Networking



Promotion



Knowledge



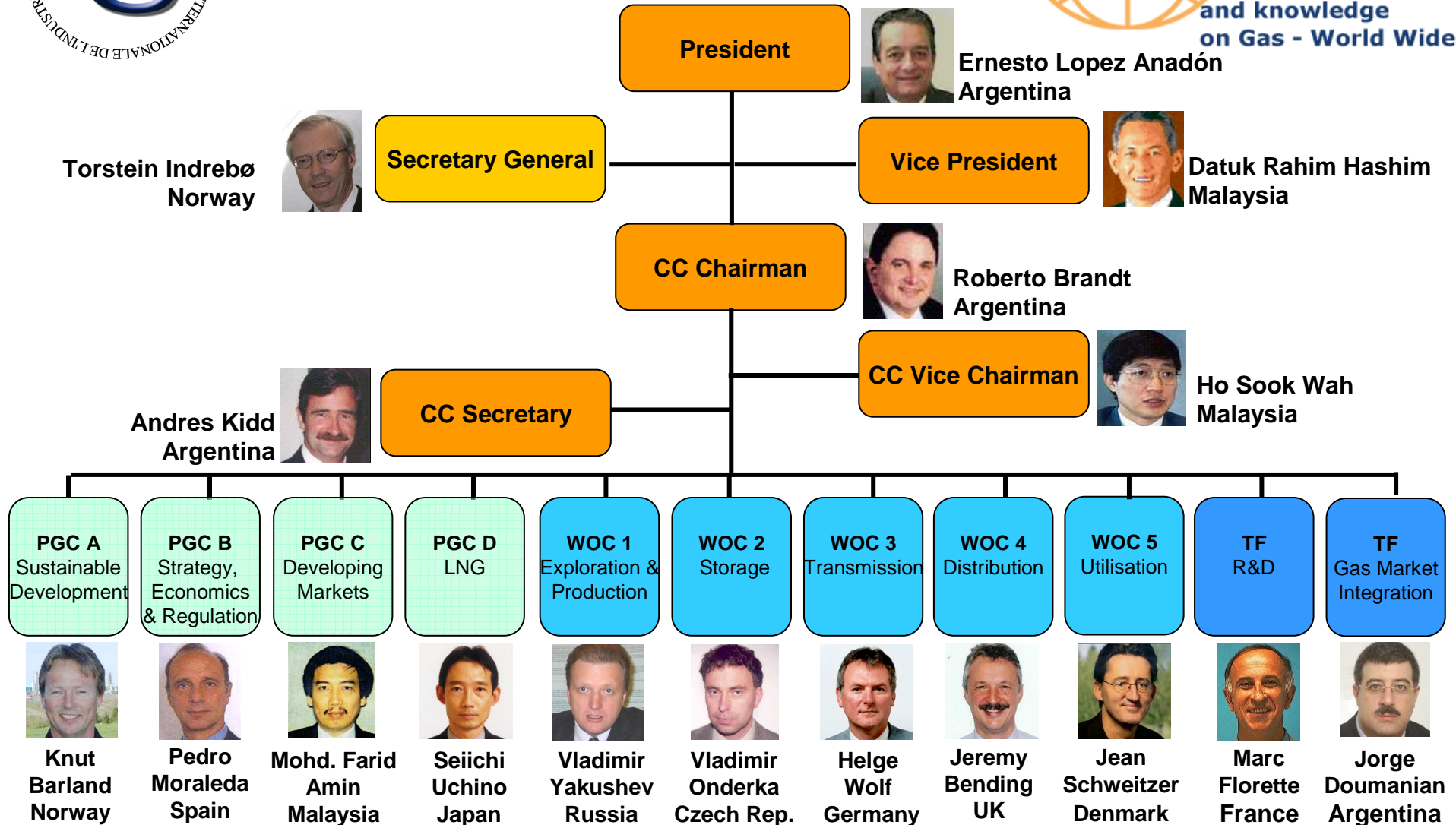
Information



Gas experts from all over the world working together



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IGU is spokesman of the gas industry with top class contacts



- Organisation of conferences and support of information exchange among members

Organiser of
IGU Gas Research
Conferences
(IGRC in Paris 2008)



Co-Sponsor of
LNG Conferences
(LNG 16 in Algiers 2010)

- Liaison with UN, IEA and other international energy organisations





IGU supports masterminds



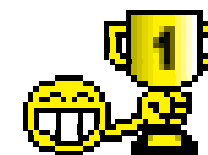
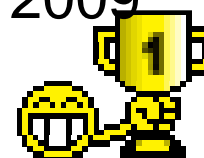
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THE IGU GAS EFFICIENCY AWARD

„Conservation and efficiency are the
cheapest forms of new energy“

- Development, realisation and promotion of gas efficiency related projects
- Members can nominate candidates
- Prize 2 x EUR 10,000 in 2008 and 2009

->Deadline: End of May 2008





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- About IGU
- Globalisation of the gas market
- Climate – benefits of gas





The mission is the challenge



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"Safe Forecasting"



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





The global framework – four major themes



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Resource nationalism

Access to reserves

Changing of the market

Regional to global

Resource concentration

Energy security

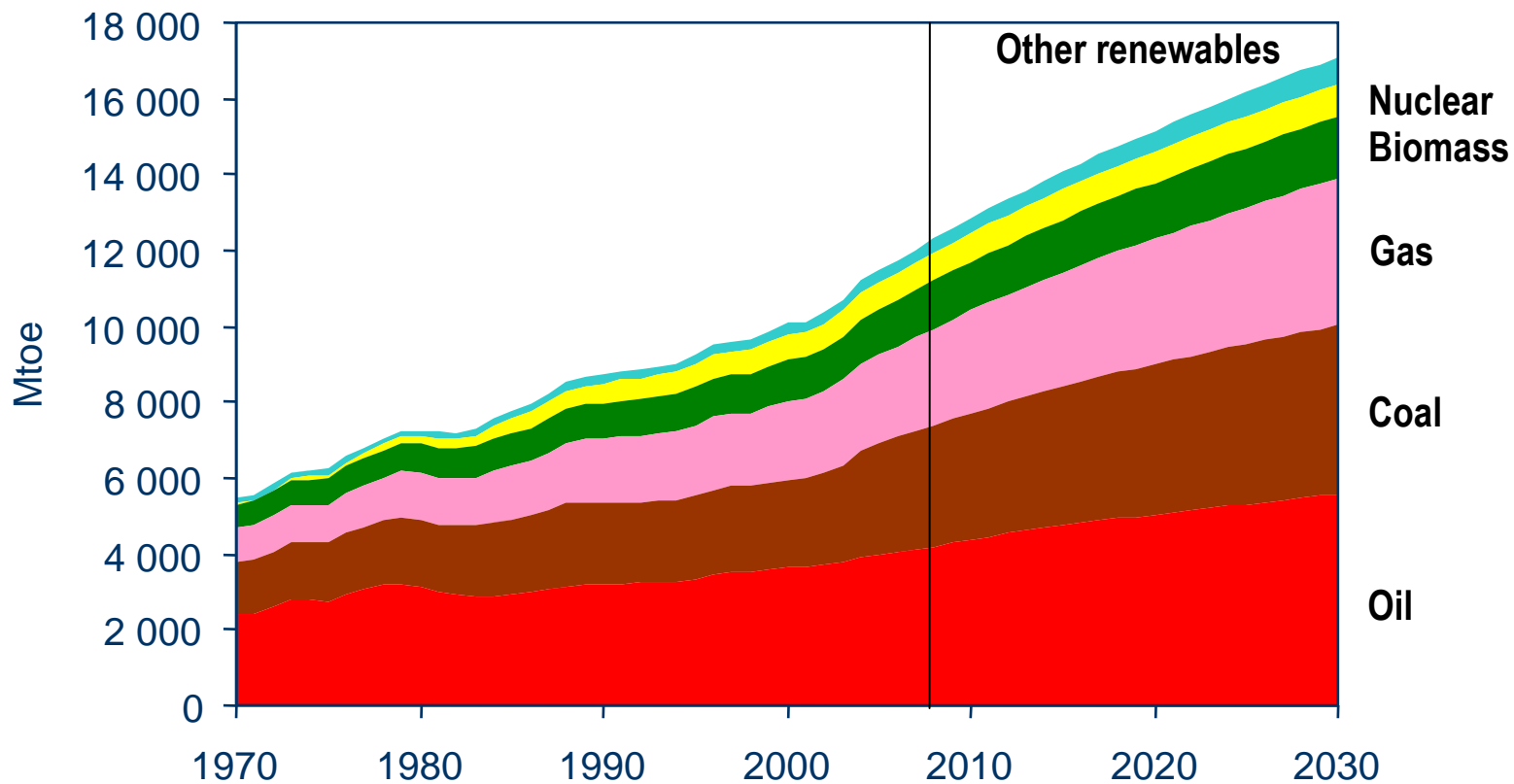
Climate change

Greenhouse gas emissions





IEA forecasts growing gas demand in the future



Source: OECD/IEA - 2007

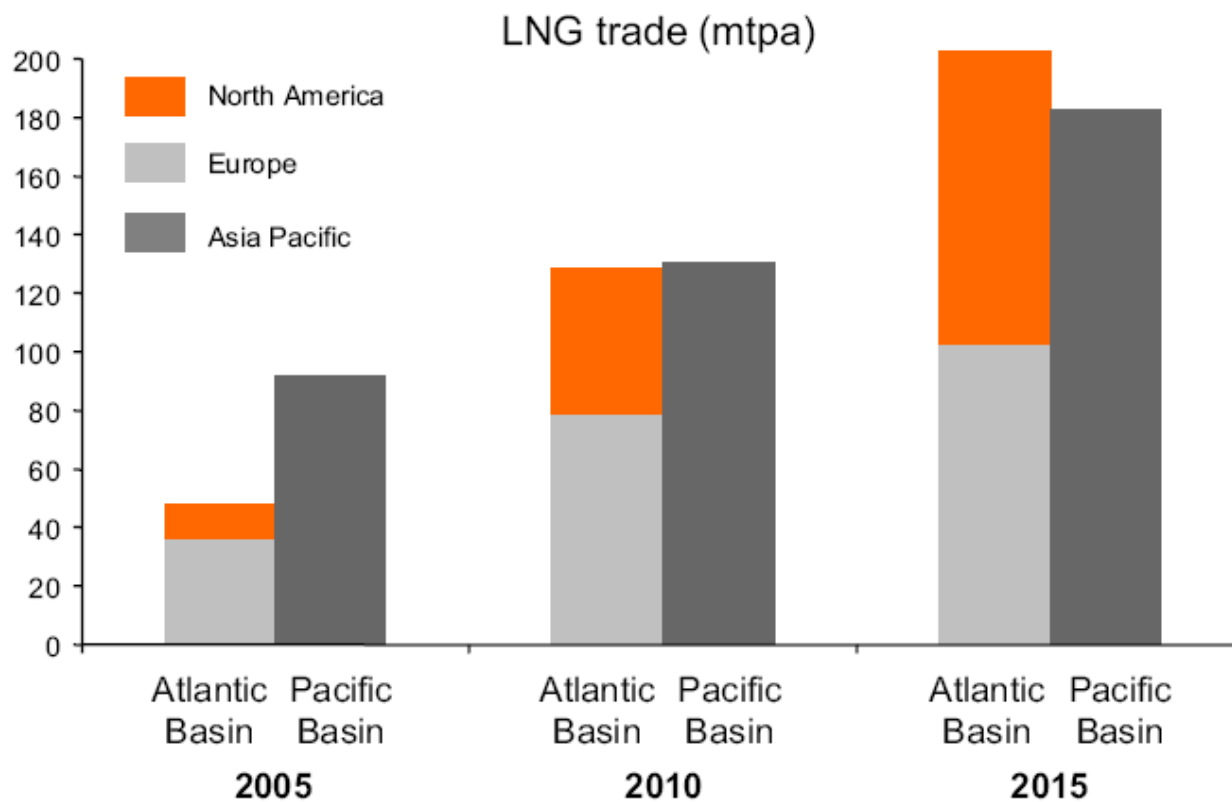




LNG Capacity Increasing



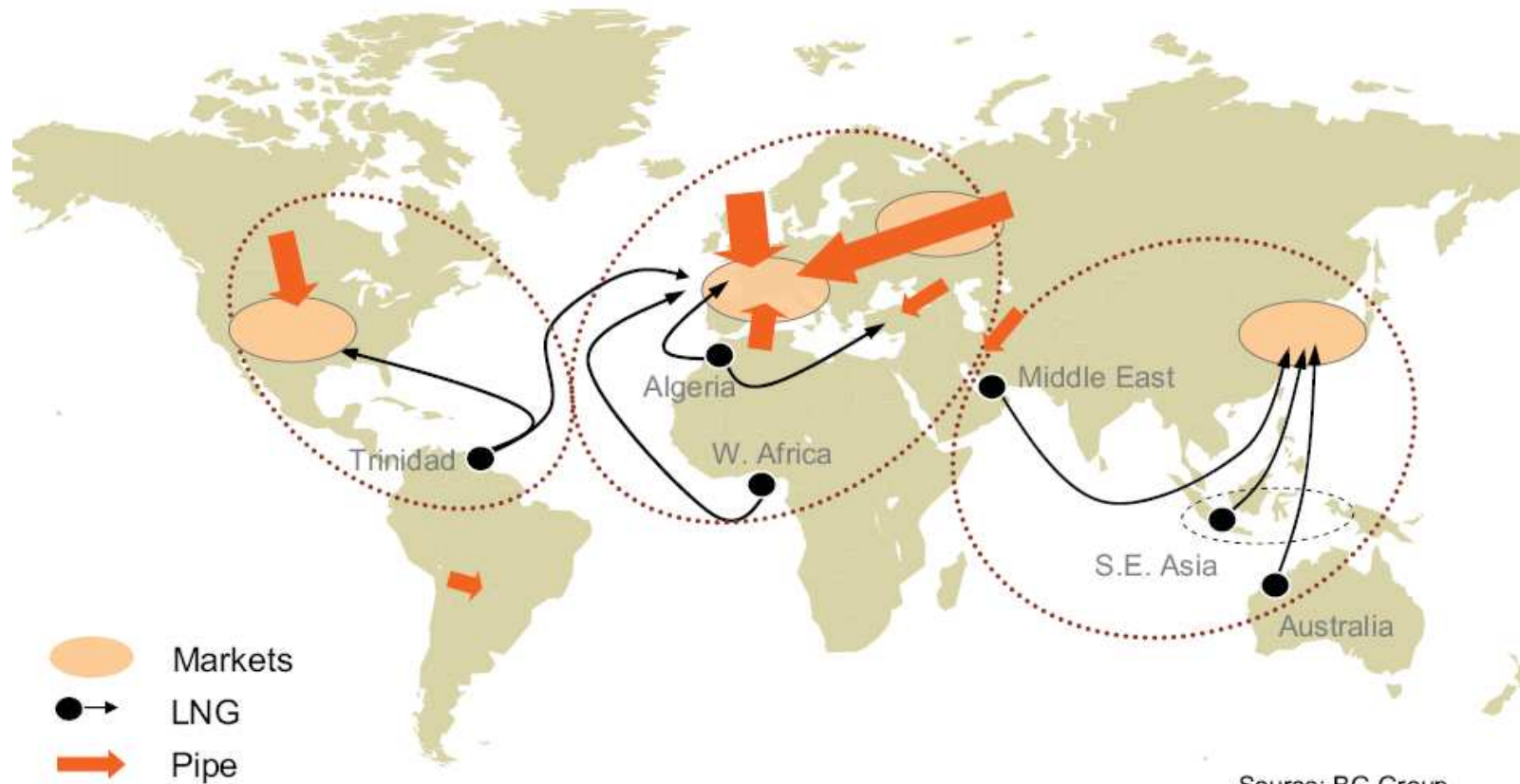
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Source: Wood MacKenzie 2007



Gas markets were regional in the recent past

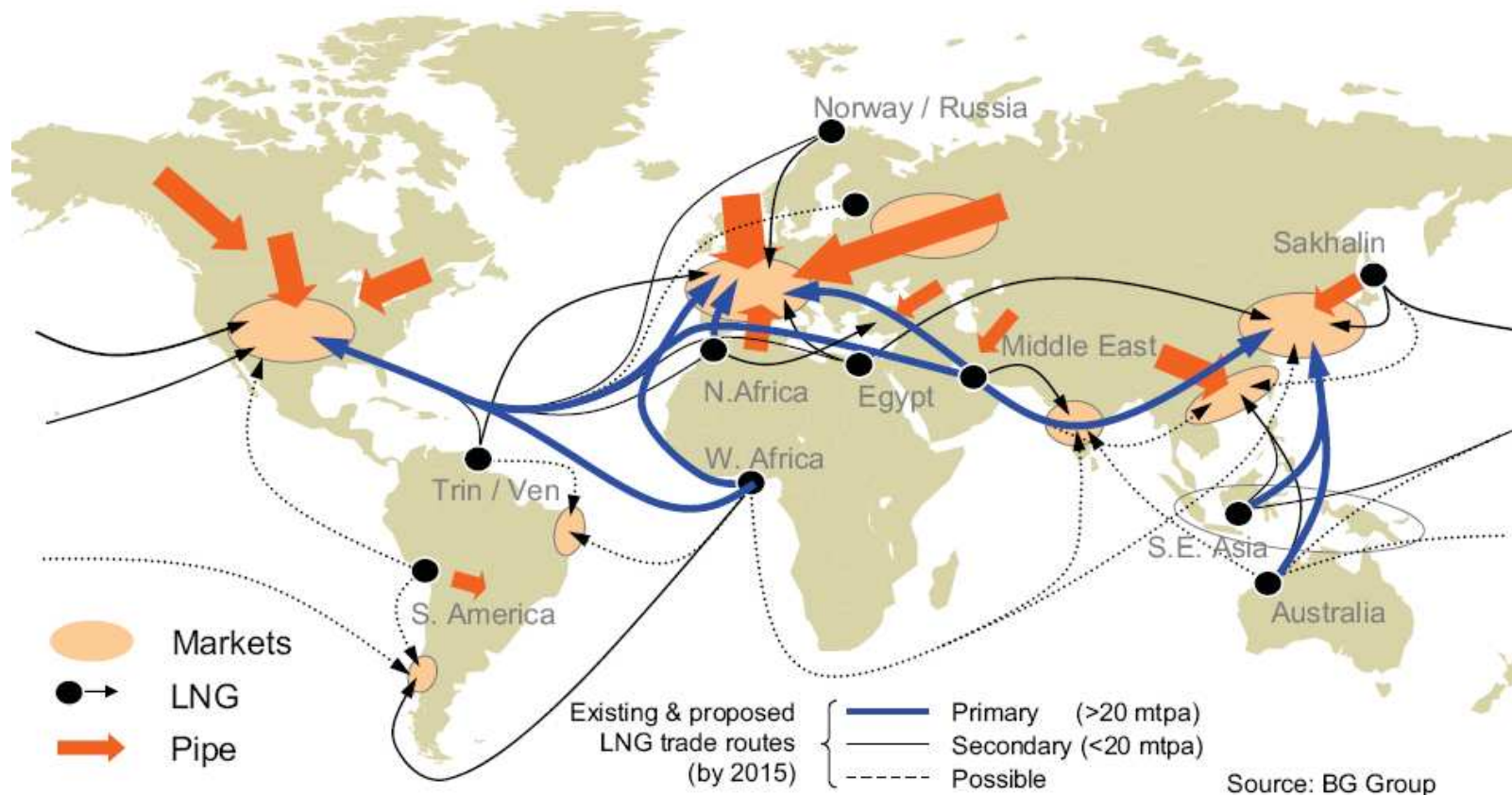


Source: BG Group





A global gas trade is evolving

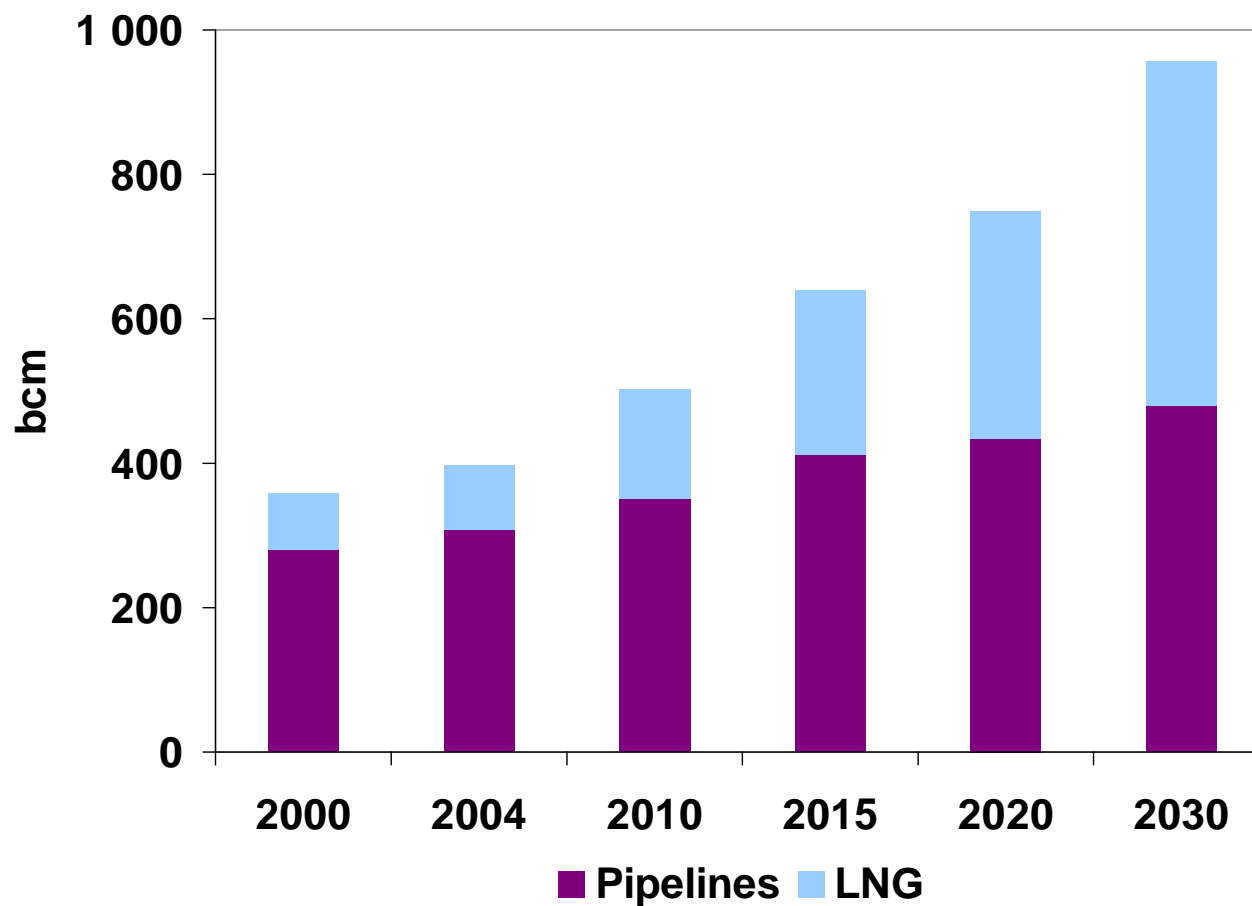




LNG capacity is catching up



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Source: OECD/IEA – 2007, World Energy Outlook 2006



LNG is driving gas market globalisation



- LNG provides market connectivity & trade flexibility
- Supply flexibility has increased significantly
- US emerging as the balancing market
- International gas markets more truly “global” than ever before

Source: CERA 2006





„Sold out“ at the world resource market



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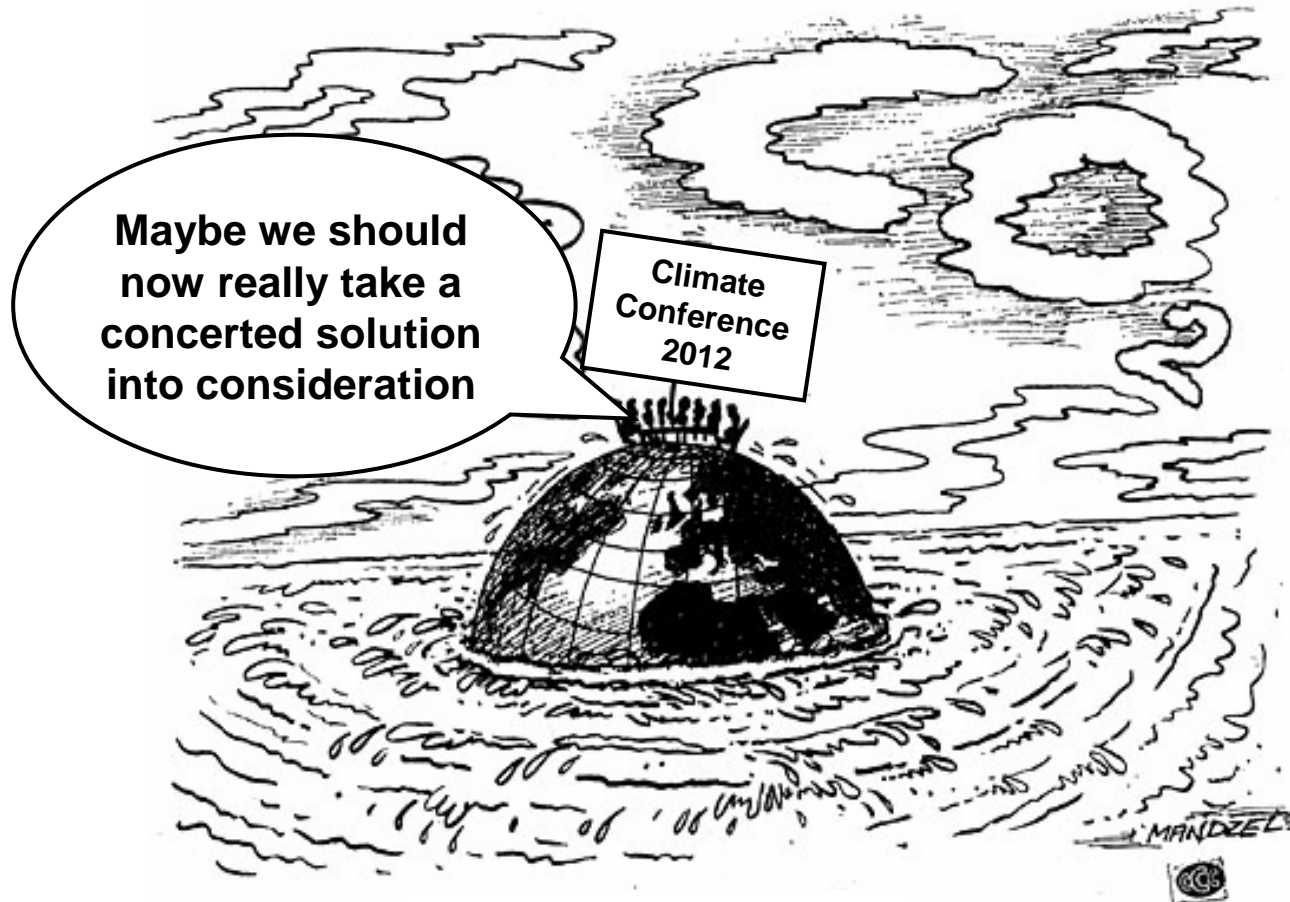




Emissions are growing...



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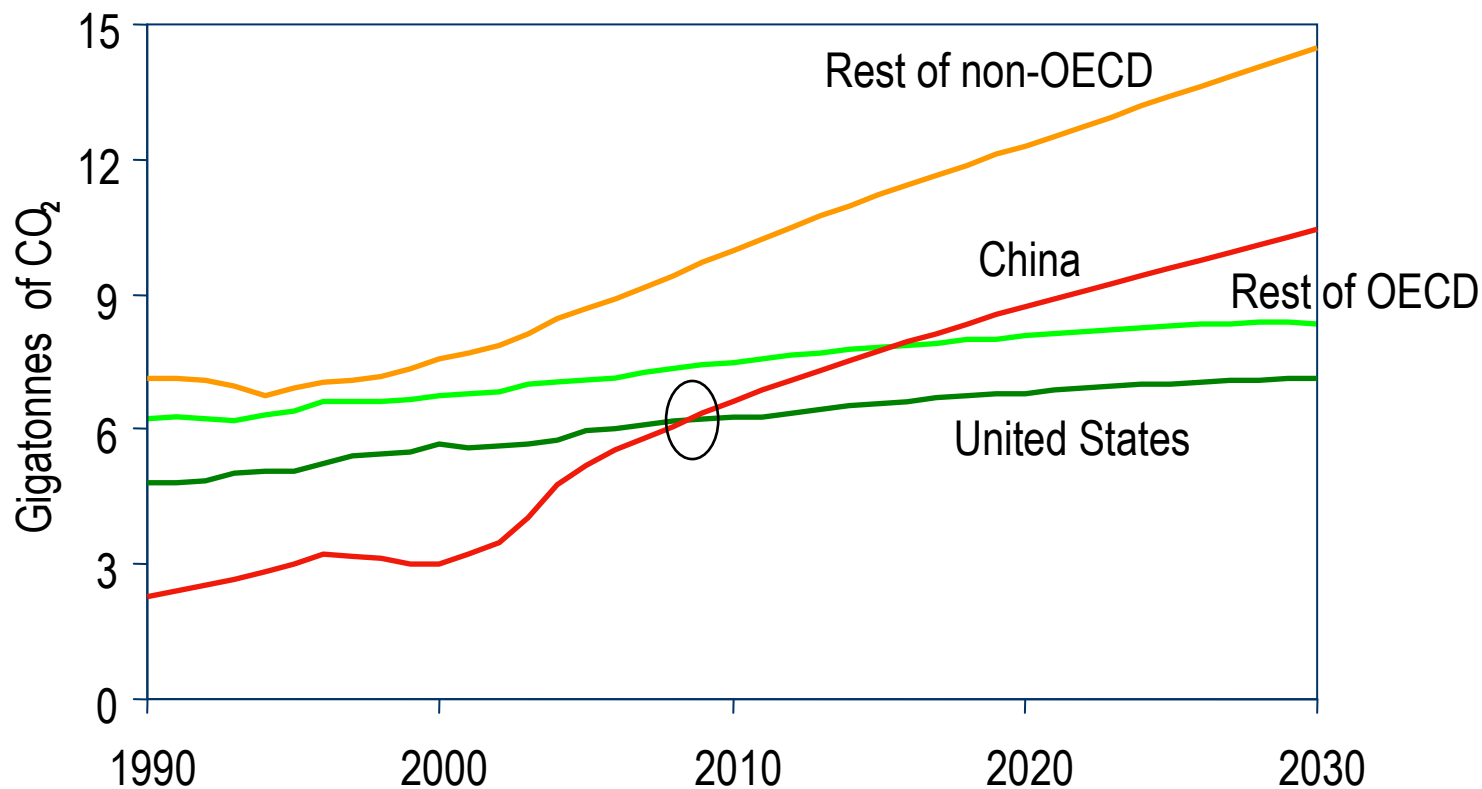


Gas
should
play a
major
role!





Energy related CO₂ emissions by region - China growing



Source: OECD/IEA - 2007



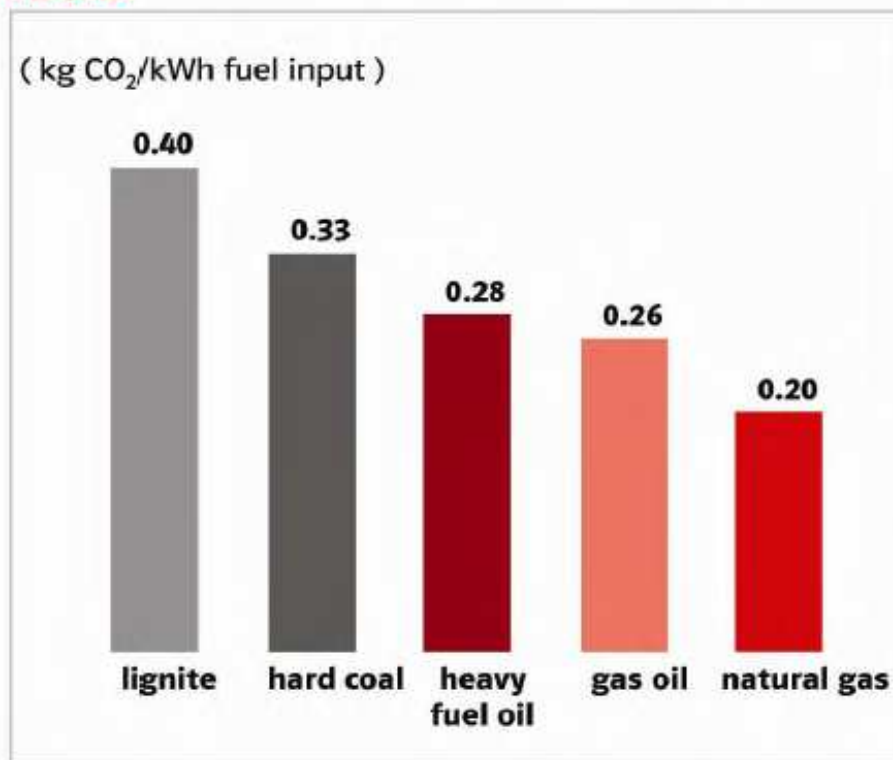


Natural gas – lowest carbon content



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CO₂ formed by the combustion of fossil fuels:



Source: E.ON Ruhrgas 2007



Plus Factors of Gas



- Low carbon dioxide releases
- NGV's great climate protection potential
- Gas - the transition fuel in a sustainable world of energy
- Natural gas complements renewables
- High efficiency with combined cycle power



Source: With courtesy of
E.ON Ruhrgas





IGU is a strong supporter of natural gas in transportation



Concerted initiative towards authorities and CEOs



- ## Reduction of
- GHG emissions
 - Air pollutants
 - Noise



Message to National and Local Governments

NGVs (natural gas vehicles) – an Opportunity for National Benefits

This message is intended to make Governments aware of the energy, economic and environmental benefits associated with a growing NGV industry.

The International Gas Union (IGU) has the objective of promoting the technical and economic growth of the gas industry. The International Association for Natural Gas Vehicles (IANGV) provides the NGV industry with an international forum, and aims to foster growth, safety, product development, standardisation and policy formation. The objective of Marcogaz is to serve its members by promoting appropriate technical conditions required for the market success of natural gas.

Growth of NGVs
At present there are 7.1 million NGVs around the World. The growth has been 33% per year over the last 3 years. There are 11,000 refuelling stations. These NGVs are estimated to annually use up to 22 Bcm (770 Bcf) of natural gas. In addition there are about 30,000 other vehicles powered by methane (eg tractors, airport service vehicles, marine ferries and vehicles). Methane is also used as a fuel in ships, ferries and locomotives.

Between 1991 and today NGV growth has averaged 18% per year. In this time, NGVs have contributed greatly to improvement of local air quality, particularly in heavily polluted cities, e.g. Delhi. With growth continuing at 18% per year, there will be up to 66 million NGVs by 2020¹ replacing up to 3.8 million barrels of oil per day.

NGV Technology
NGV and refuelling station technology is mature, safe and reliable. The majority of NGVs on the road today are after-market conversions, however, most vehicle manufacturers have natural gas versions of popular models of cars, trucks and buses. Some vehicle manufacturers certify off-line conversion of their vehicles to natural gas. Technology for the filling of NGVs is safe and reliable and is often integrated into conventional petroleum stations. Natural gas cars can now also refuel at home.

NGV markets are technically and commercially mature. NGVs have significant environmental benefits with lower emission of substances which cause local air pollution, and with lower greenhouse gas emissions. Natural gas is the safest motor fuel available on the commercial market.

International Support
In July 2008 world leaders at the G8 summit, and in May 2007 the Energy Ministers of APEC², supported enhancement of global energy security through actions to promote energy efficiency in transportation and to diversify the fuel mix. In December 2003 the European Union endorsed the concept of natural gas replacing 10% of the petroleum in the transportation sector by 2020³.

¹ DoE Appearix
² Source: IEA/IEF
³ Asia Pacific Economic Cooperation (APEC) – is the forum for a group of 21 Pacific rim countries.
⁴ Market Development of Alternative Fuels, Report of the Alternative Fuels Contact Group, European Commission, DG Tran, December 2003





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**Thank you
for your attention!**

See you in Buenos Aires!

**24rd World Gas Conference
and Exhibition**

October 5 – 9 2009





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