

International Gas Union



INDOPIPE 2010

The 3rd International Indonesia Pipeline Conference & Exhibition Theme: Accelerating Indonesia's Pipeline Infrastructure Development

"IGU – World Gas Pipeline Scenario"

By:

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Outline



- 1. Introduction
- 2. World Gas Pipeline Sector
- 3. IGU World Gas Pipeline Scenario
- 4. Key Challenges and Opportunities
- 5. Concluding Remarks





IGU as THE spokesman for the gas industry



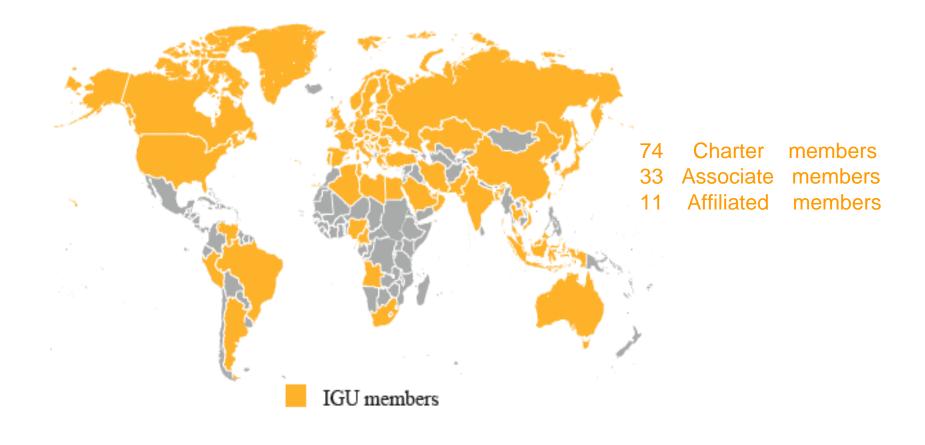
- Worldwide and non-profit organisation established in 1931
- Promotes technical and economic progress of the gas industry
- Emphasising sound environmental performance
- Increased focus on strategic and policy issues
- Cooperation with IEA, United Nations, World Bank, IEF and others





IGU Members responsible for 95% of Global Gas Sales





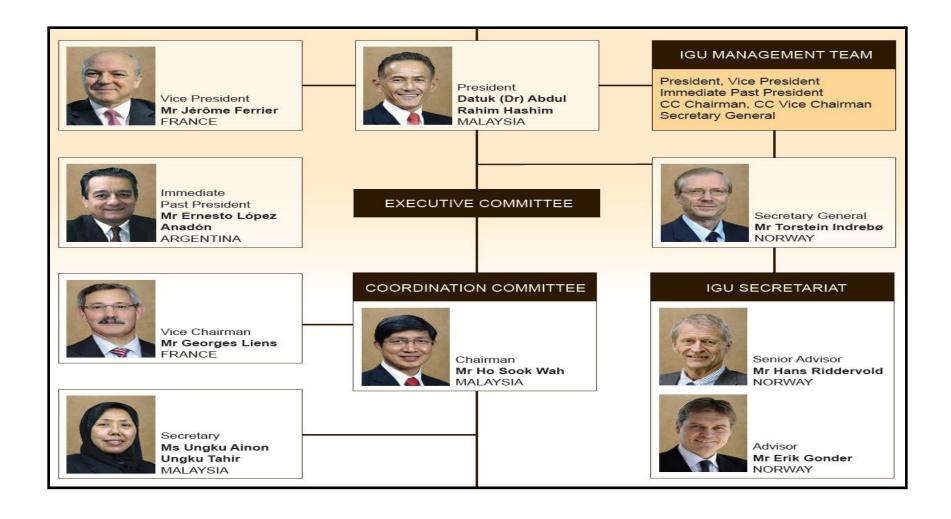
*N.B.: As of April 2010





IGU Organisation Chart for the 2009 – 2012 Malaysian Triennium







The outlook of world gas pipeline sector







Despite variations in length, both transport natural gas from suppliers to customers

• Short-to-medium : efficient delivery systems

Long : enhance the integration of various gas markets





IGU Messages on Natural Gas







- Available and abundant
- Continue to play a substantial role in global energy demand
- Basis for sustainable economic growth





Natural gas

– major part of the long term energy solution



Varying levels of gas markets across regions provide impacts on the pipeline sector







The Strategic Goals under the Malaysian Triennium in the context of world gas pipeline sector



4 Strategic Guidelines (SG)

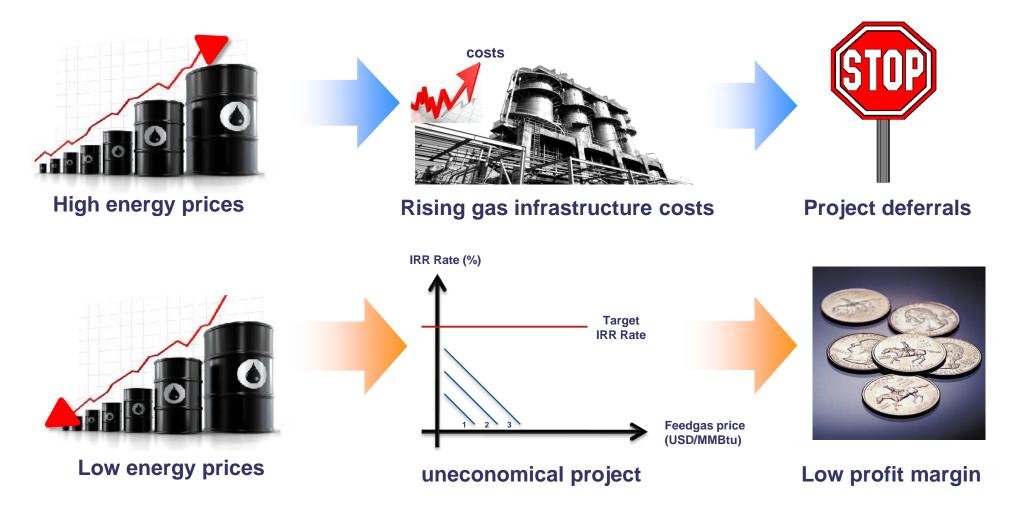
- 1. Enhance the role of gas for sustainable development and balancing the needs of all stakeholders
- 2. Improve availability of gas and access to markets
- 3. Maximise efficiency throughout the expanding gas value chain
- 4. Ensure adequate human capability to enable growth and integrity of the industry





SG 1: Enhancing the role of gas





• Natural gas rallies in an intensely competitive global energy market



Rapid growth in the role of natural gas



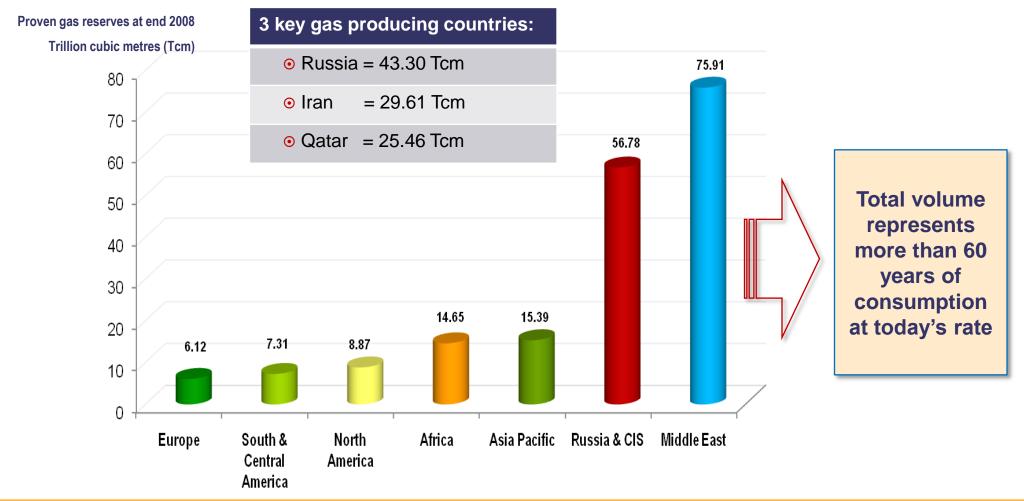




SG 2: Improving the availability of natural gas



The world's proven natural gas is amounted to 185 Tcm





Two authoritative reports highlight the robustness of future global pipeline industry



Over the period 2009 - 2013

Offshore pipeline by Infield Systems



- Over 80, 000 km to be built
- Estimated Capex = ~ USD 269 bn

Onshore pipeline by Douglas Westwood



- Around 139,000 km to be built
- Estimated Capex = over USD 144 bn

Total investments = over a staggering USD 413 billion





SG 3: Maximising efficiency



• Choices for wider utilisation of natural gas

Gas District Cooling



Power Sector



Fuel for Industrial



Fuel for Residential Space Heating and



NGV in Transport



Petrochemical Industry







SG 4: Ensuring adequate human resource capability







 IGU's Task Force 1 "Building Strategic Human Capital" will recommend way forward





The IGU Working Committee on gas transmission (WOC-3)

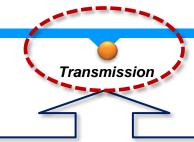




Natural gas value chain







Distribution



Working Committee 3 (WOC-3): Gas Transmission



Chairman: Mr. Erik Dam, The Netherlands



Vice Chairman: Mr. Jorge Bonetto **Argentina**





Leader: **Enno Freese** The Netherlands

Subgroup 3.2: Integrity of gas transmission systems footprint reduction



Leader: **Mohd Nazmi** Malaysia

Subgroup 3.3: Securing sufficient expertise to operate safely and adequately gas transmission systems



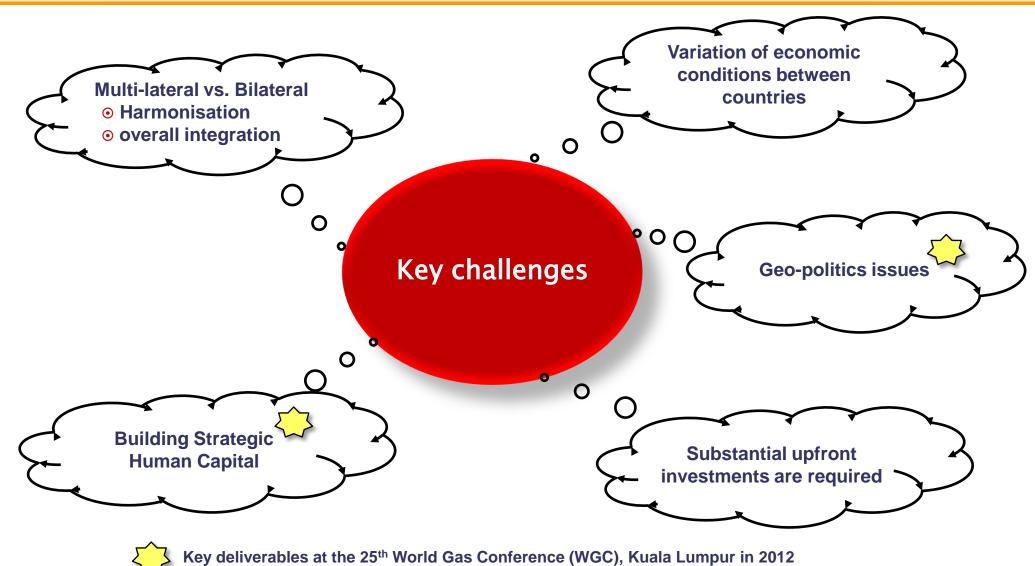
Leader: **Barbara Jinks** Australia





Issues relating to world gas pipeline sector

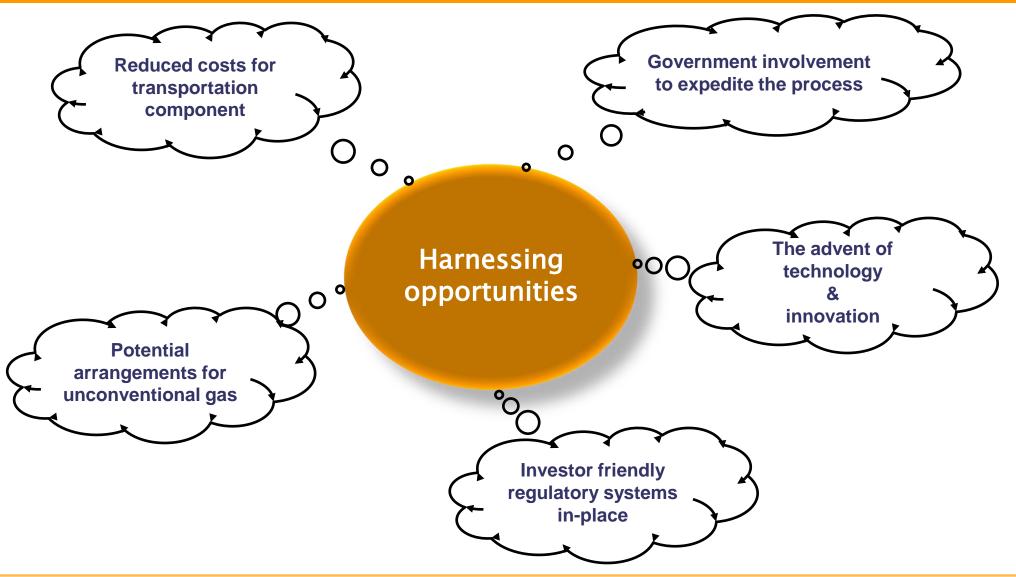






Issues relating to world gas pipeline sector







Gas is the cleanest of the fossil fuels







25th World Gas Conference











"GAS: SUSTAINING FUTURE GLOBAL GROWTH"

Kuala Lumpur Convention Centre 4 to 8 June, 2012







Should not miss our Malaysian Hospitality







THANK YOU FOR KIND ATTENTION!



