



The Global Energy Challenge: Reviewing the Strategies for Natural Gas

Short term 'blip' or long term changes?

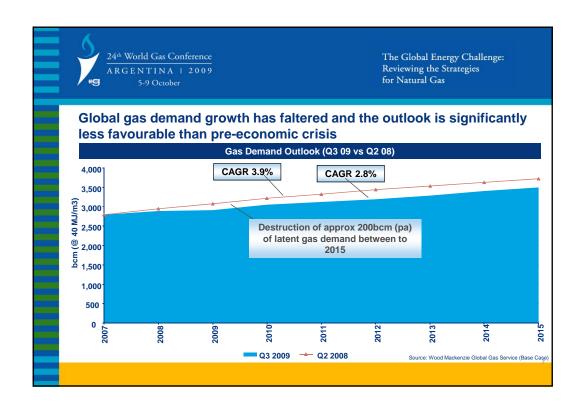
> The old view ?

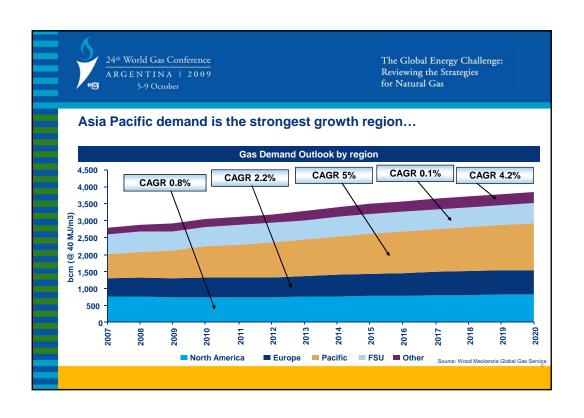
- Major gas markets showing strong growth but indigenous supply suffering from terminal decline (NA, Europe)
 - Need for more imports (LNG and pipeline)
- Gas harder to find and more costly to develop generally tight supply demand fundamentals
- Slow move to global gas market (and price ?)
 - · Major producers dominate and control (oil indexed) pricing

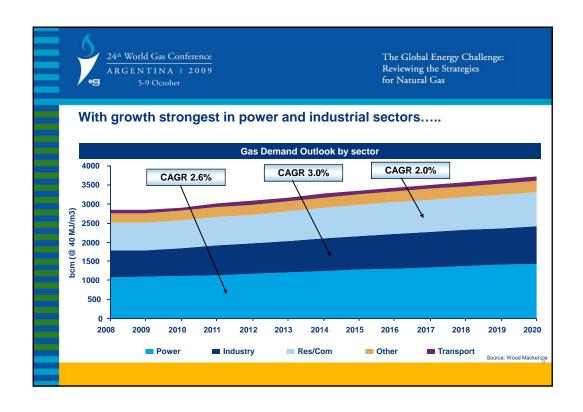
> The new view ?

- Demand has been destroyed and future growth rates moderated
- Unconventional supply has changed the 'game' in NA
- A short term excess of supply has expanded to medium term ?
 - Pressure on contracts...especially in 'high' oil price world
- Moving to global gas (spot ?) market ?

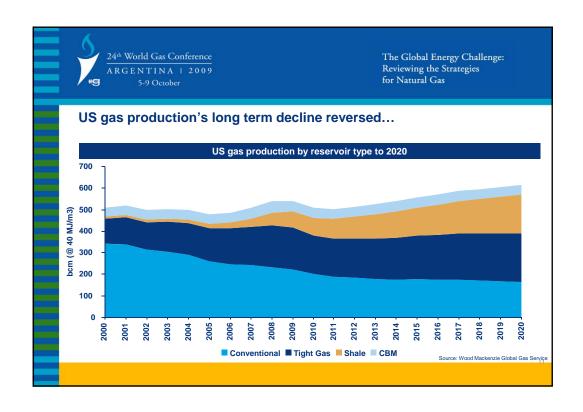


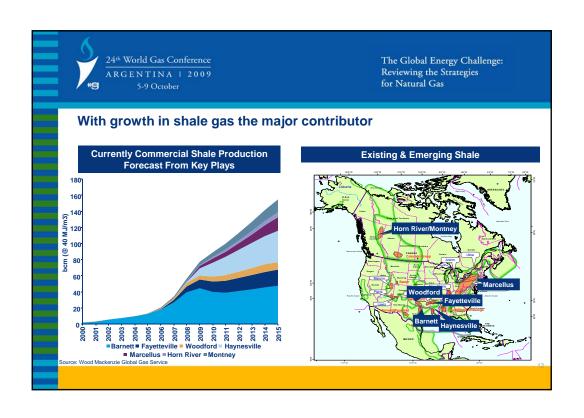


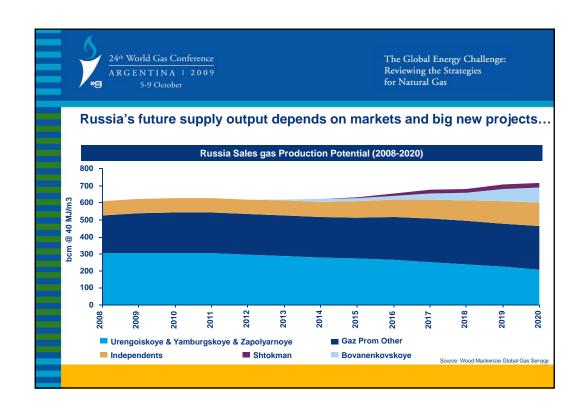


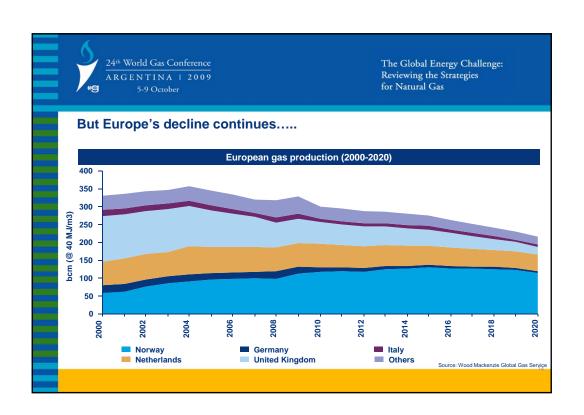


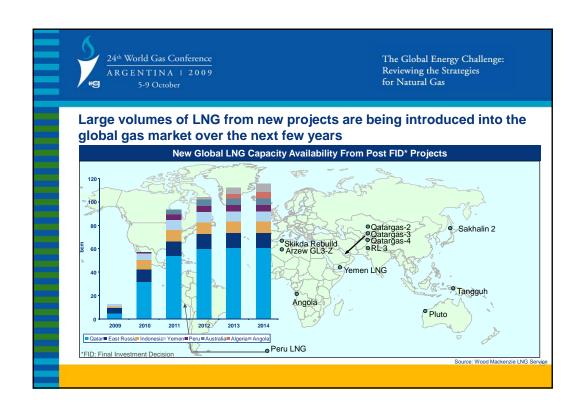


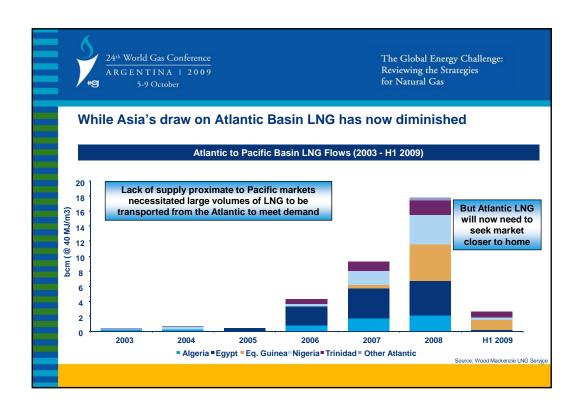




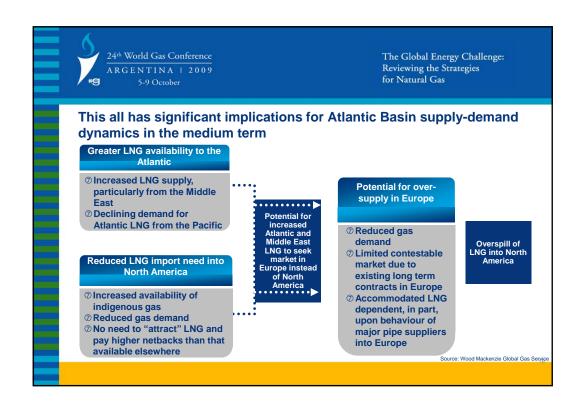


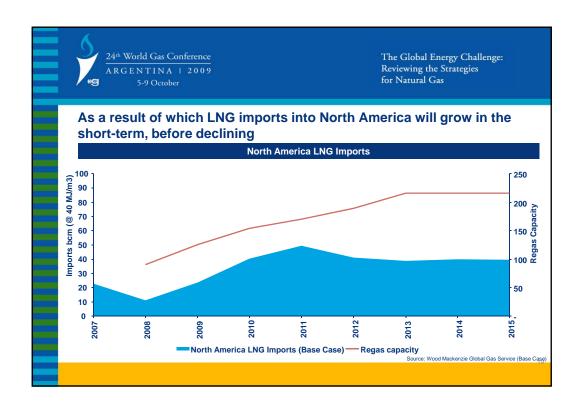


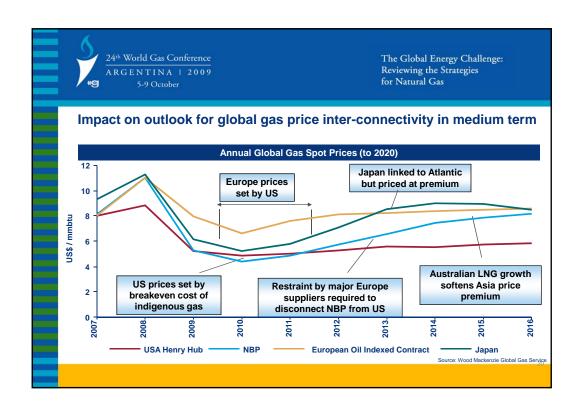


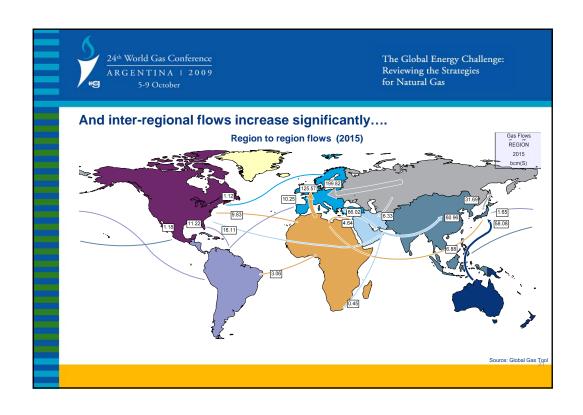




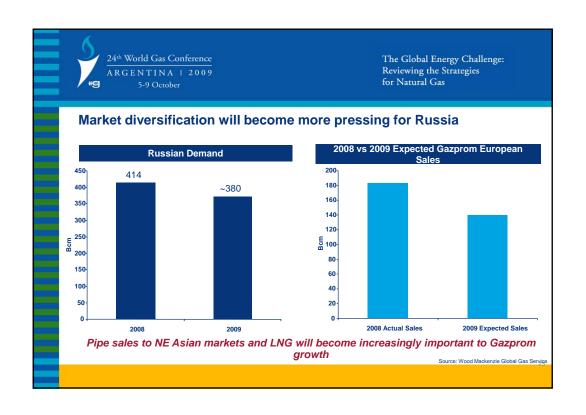


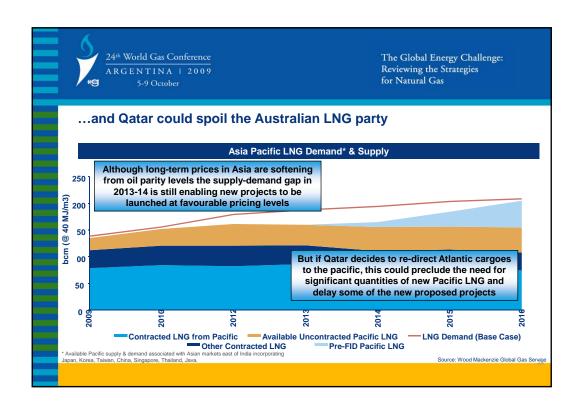


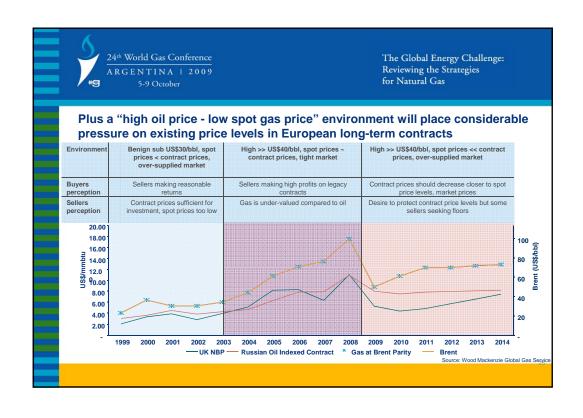


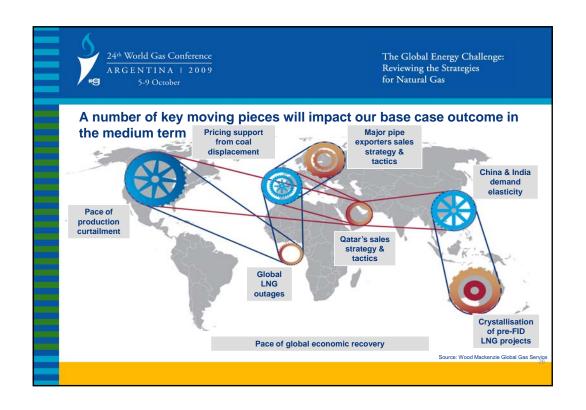














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Summary

-) The Macro Environment has changed significantly.....
 - Demand has reduced and there is excess gas supply....
 - Some supply 'conventions' have changed...i.e. NA onshore
 - · Prices are set to remain weak in the near term
 - But our 'base case' assumes producer 'restraint' and recovery for European and Asian gas prices in the medium term
-) Global Gas Market Implications include....
 - · Russia needs to diversify
 - · Qatar has a key role in the Pacific market
 - Pressure is likely on long-term European contracts and will have implications for pricing of long-term Pacific contracts
- > For further information visit www.woodmac.com/energy/globalgas



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Neil Thomas Head of Gas Research and Regional Director of Asia Wood Mackenzie



E neil.thomas@woodmac.com



- Neil heads Wood Mackenzie's global research group with responsibility for its regional gas fundamental services (North America, Europe and South East Asia), the Global Gas and LNG teams. Neil also manages the regional operations in Asia, based in Singapore.
- He joined Wood Mackenzie in 1990 and has since worked in a variety of roles within the company in both the research and consulting business. Neil has wide experience of the upstream and downstream gas sectors with specific focus on European issues and has consulted widely in these areas. Projects have included competitor analysis, strategy studies, screening analysis, valuation work and extensive gas market analysis including M&A related projects, purchasing strategies and pricing studies.
- > Neil graduated from Durham University with BSc Honours Degree in Geology followed by MSc in Petroleum Geology from Imperial College, London.



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