26th World Gas Conference

1 – 5 June 2015, Paris, France



HUB BASED PRICING – THE NEW NORM FOR GLOBAL GAS MARKETS?

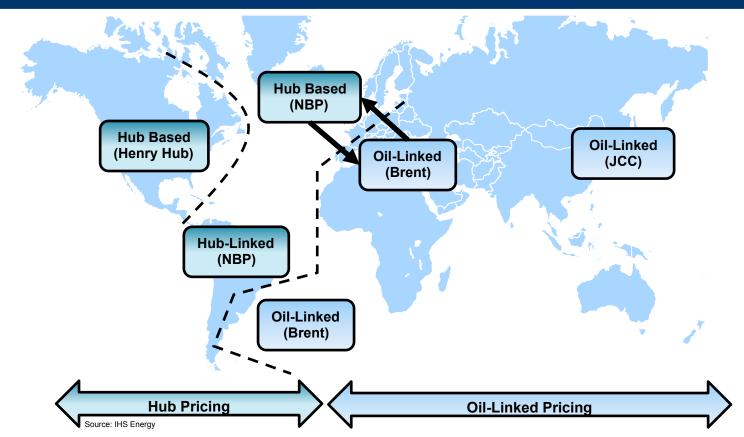
Chris Holmes and Gauri Jauhar IHS Global Ltd.



Hub based gas pricing has yet to go truly global

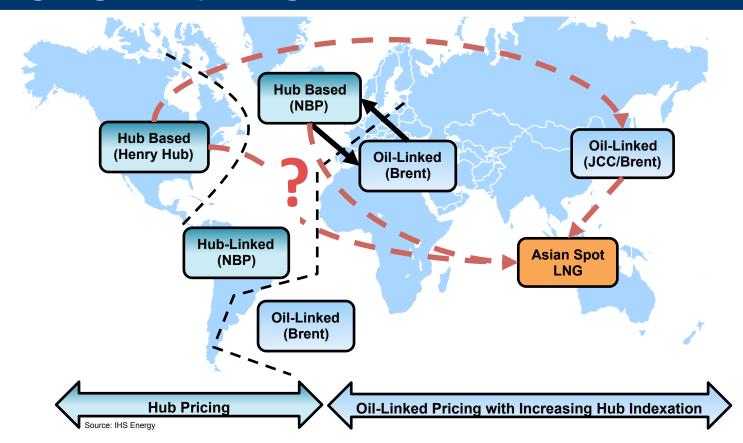
- Physical and virtual hub-based gas pricing is well established in the Atlantic Basin
- Increased cost of oil-indexed gas and LNG have been a challenge for Asian buyers in recent years
 - Current account impact for established LNG importers
 - Increased potential subsidy burden and/or loss of competitiveness against coal for new LNG importers
- Asian buyers have been looking at alternatives to oilindexed gas prices – but can one exist?

Historical regional gas pricing mechanisms



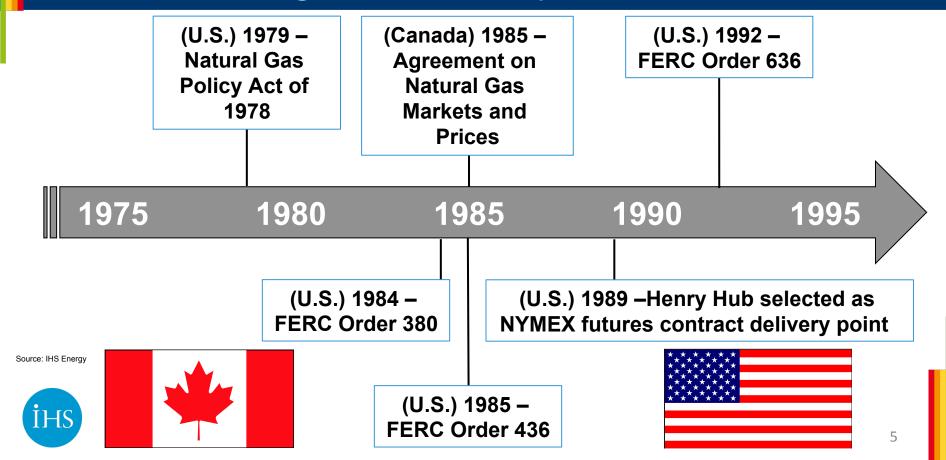


Evolving regional pricing mechanisms

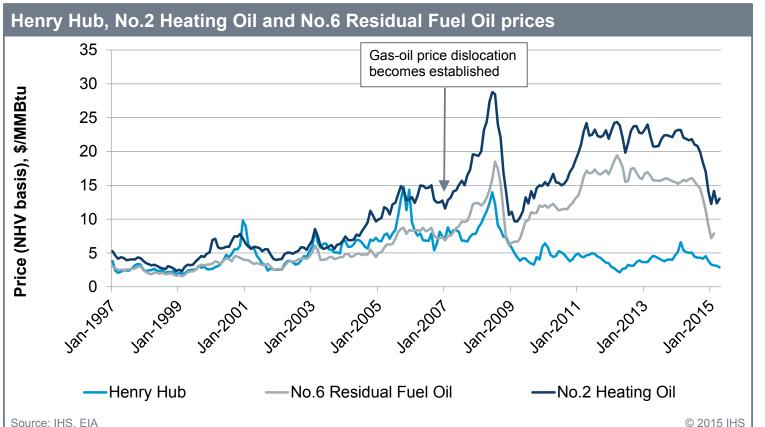




North American gas hub development enablers



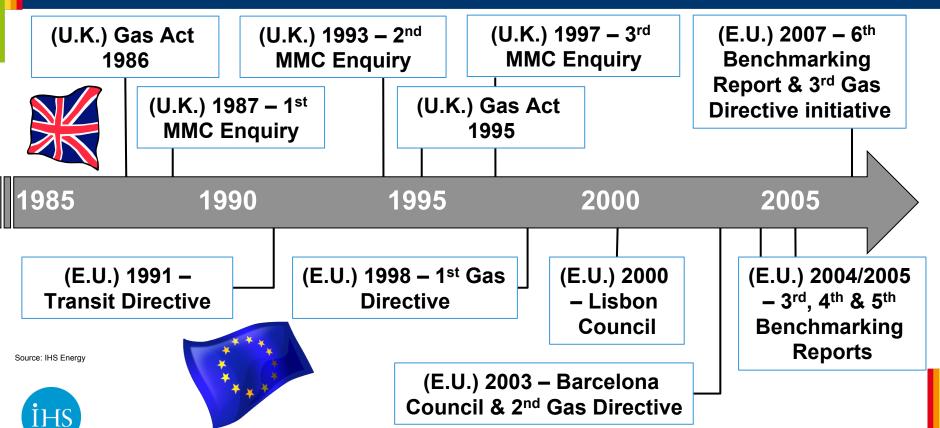
Changing fundamentals => changing price dynamics



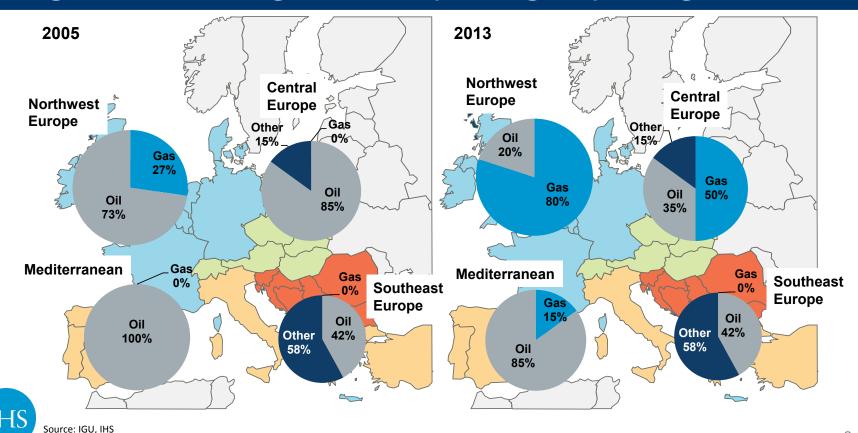


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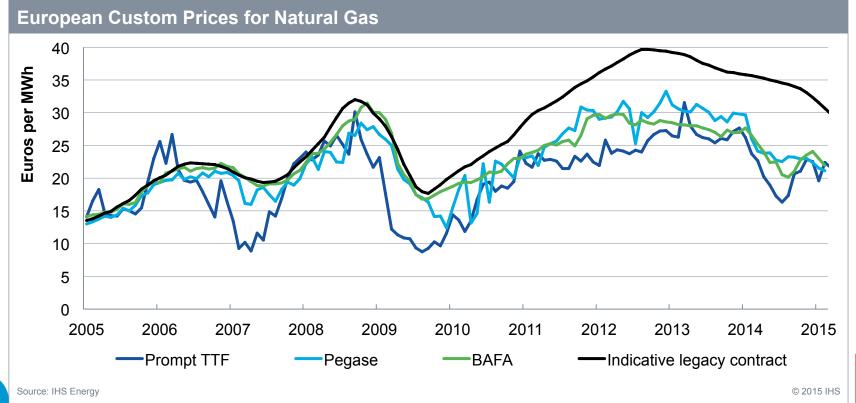
European gas hub development enablers



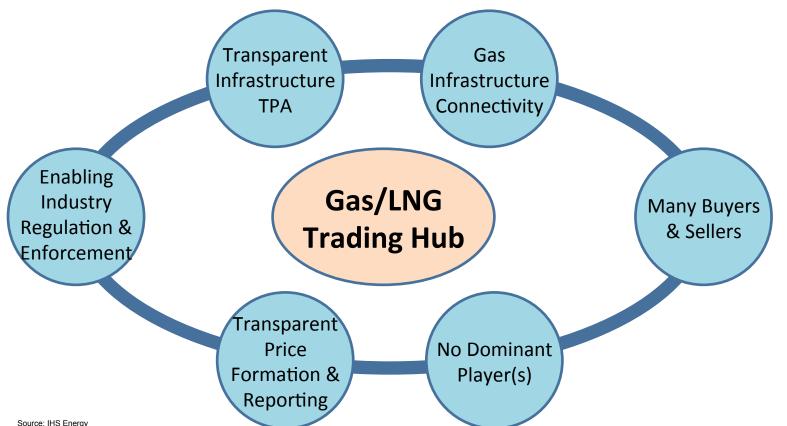
A significant change in European gas pricing since 2005



A move to hub indexation has lowered European prices



Critical success factors for gas hub development





Asian gas hub development – current status

	Japan	China	SE Asia
Number of Potential Buyers & Sellers			
Existence of One or More Dominant Player(s)			
Physical Gas Supply Infrastructure Connectivity		Improving	
Transparent TPA to Gas Supply Infrastructure		Improving?	
Enabling Gas Industry Regulation & Enforcement			
Transparent Price Formation & Reporting			
Energy Commodity Trading Environment			





So can an Asian hub evolve? Yes, but . . .

- Supply availability needs to increase to provide the desired liquidity
 - Removal of LNG supply destination restrictions and relaxation of take-or-pay obligations?
- The number of market participants needs to expand beyond the established incumbents
- Commercial agreement standardisation is required for access to LNG terminal capacity and transaction
 facilitation

Could an Asian hub become a price reference point?

- In the near /medium term unlikely
 - Liquidity and churn rates are expected to be insufficient to become a true indicator of market fundamentals
- In the longer term possibly … but will require considerable regional cooperation to create harmonised regulations
 - Atlantic Basin gas hubs took 20 years to develop and led to lower prices . . . but for different reasons
 - Physical pipeline gas/LNG supply integration necessary to facilitate development of a truly liquid hub