Global LNG Update 2017



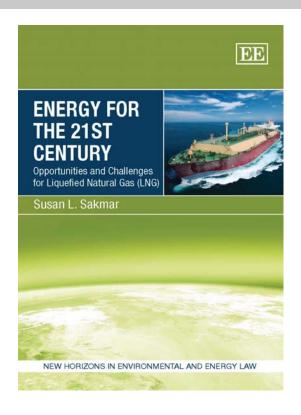


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Introduction



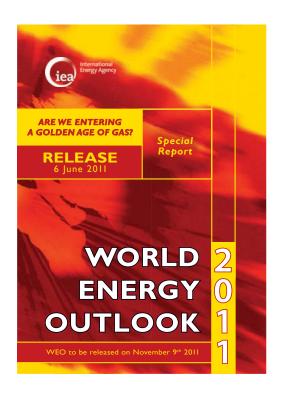


- LNG has been the fastest growing segment of the energy business.
- Policy makers, regulators, and market participants need to better understand market dynamics.
- The global gas market is challenging and dynamic and almost everyone gets it wrong!

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Golden Age of Gas Came & Went

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Prices for gas delivered in Asia have slumped this year Annual average gas prices, in dollars per million British thermal units \$20 Japan India U.K. U.S. Source: Energy Aspects THE WALL STREET JOURNAL.

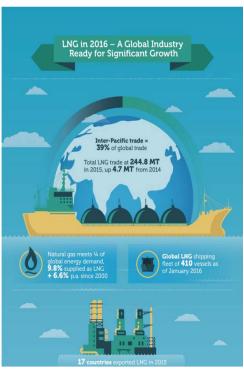
Hopes for 'Golden Age of Gas' Evaporate Slumping prices and weak Chinese demand for gas casts a pall over the LNG industry Wall Street Journal, Nov. 1, 2015

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The Golden Age of LNG?



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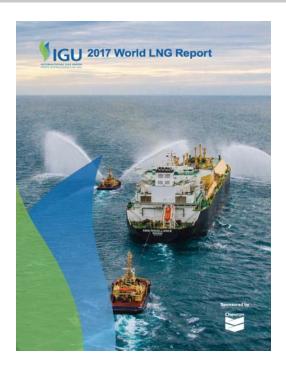


Source: IGU World LNG Repot 2016

- ➤ LNG trade reached 244.8 MT in 2015, up 4.7 MT from 2014 and the largest year ever for LNG trade.
- Major expansion of LNG supply through 2020 means LNG can further increase market share.
- New markets in Egypt, Jordan, Pakistan and Poland benefit from near record-low prices.
- Global trade in LNG could exceed \$120B, making LNG the second most valuable commodity after oil! (Goldman Sachs 2015)

World LNG Report 2017





Source: IGU World LNG Report 2017 Gastech 2017 Conference Edition "The increase in [the] number of exporters and importers amplified the complexity of the industry and introduced new permutations and linkages between buyers and sellers."

Key Trends:

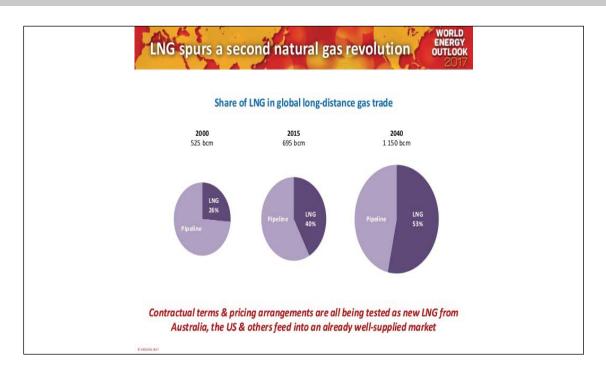
- 1. U.S. LNG exports drive change.
- 2. New and old buyers drive change in contract terms.
- 3. New pricing models are emerging

Outlook: A more responsive, competitive LNG trading system.

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LNG Revolution?





Source: IEA WEO 2017, Joint CSIS-IEA Workshop, 5 May 2017





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