The Race to Establish an Asian LNG Hub Arnaud Dubois-Denis - GM BG Singapore Gas Marketing Singapore Electricity Roundtable, St Regis Singapore, 8 July 2015



Legal notice

The following presentation contains forward-looking statements concerning BG Group plc's strategy, operations, financial performance or condition, outlook, growth opportunities or circumstances in the countries, sectors or markets in which BG Group plc operates or the recommended cash and share offer by Royal Dutch Shell plc for BG Group plc announced on 8 April 2015. By their nature, forward-looking statements involve uncertainty because they depend on future circumstances, and relate to events, not all of which can be controlled or predicted. Although the Company believes that the expectations reflected in such forward-looking statements are reasonable, no assurance can be given that such expectations will prove to have been correct. Actual results could differ materially from the guidance given in this presentation for a number of reasons. For a detailed analysis of the factors that may affect our business, financial performance or results of operations, we urge you to look at the "Principal risks and uncertainties" included in the BG Group plc Annual Report & Accounts 2014. Nothing in this presentation should be construed as a profit forecast and no part of this presentation constitutes, or shall be taken to constitute, an invitation or inducement to invest in BG Group plc or any other entity, and must not be relied upon in any way in connection with any investment decision. BG Group plc

No representation or warranty, express or implied, is or will be made in relation to the accuracy or completeness of the information in this presentation and no responsibility or liability is or will be accepted by BG Group plc or any of its respective subsidiaries, affiliates and associated companies (or by any of their respective officers, employees or agents) in relation to it.



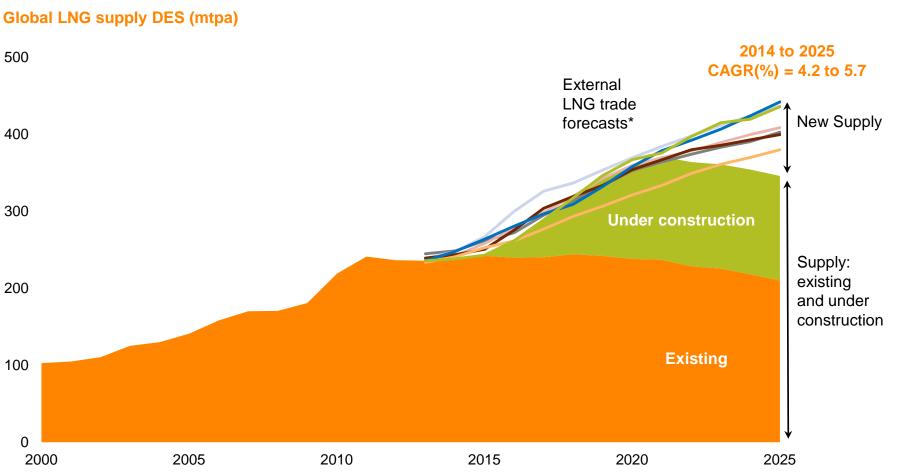
Agenda

- Global LNG market update
- Atlantic Basin: growing flexibility
- Singapore in the race towards a LNG hub



LNG trade outlook to 2025





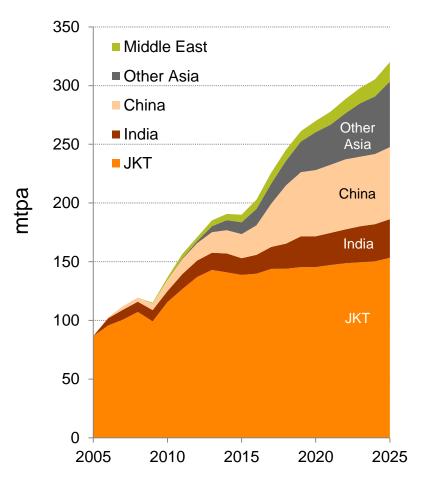
Sources: Supply (existing and under construction): BG Group interpretation of Wood Mackenzie data (Q2 2015)

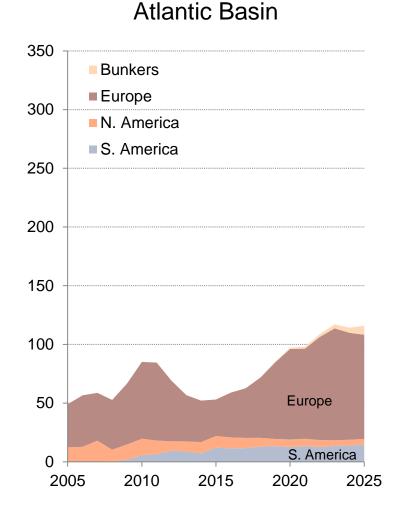
* Trade: various research house views; Wood Mackenzie, FACTS Global Energy, PFC, PIRA, IHS CERA, Gas Strategies, Poten & Partners

Demand: still driven by Asia



Pacific Basin



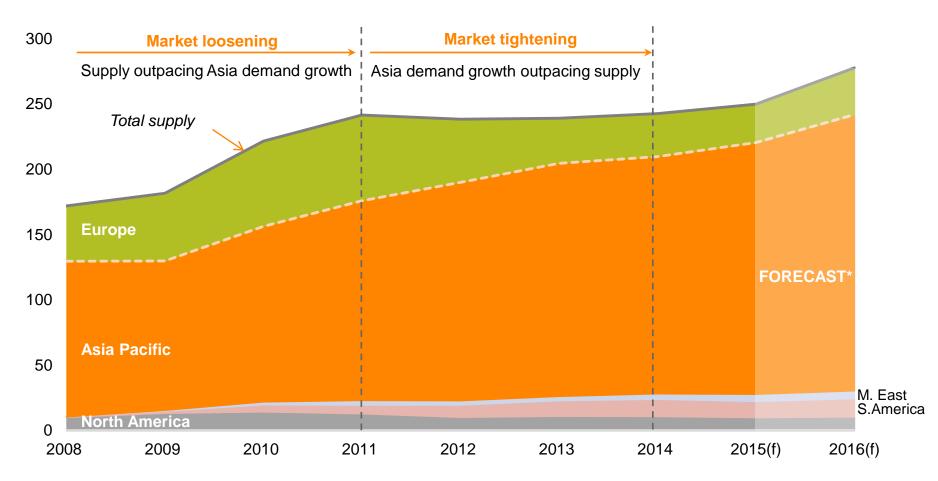


Source: BG Group interpretation of Wood Mackenzie data (Q2 2015)



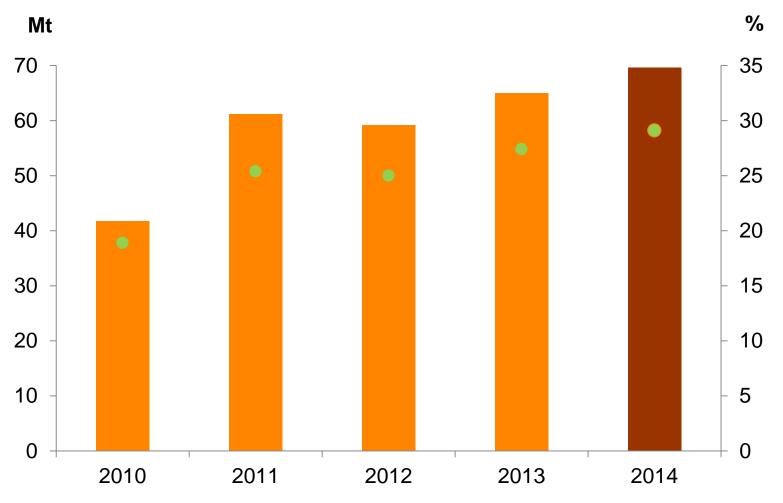
Europe, the balancing LNG market

LNG imports by region 2008-16 (mtpa)



Spot and short-term trade



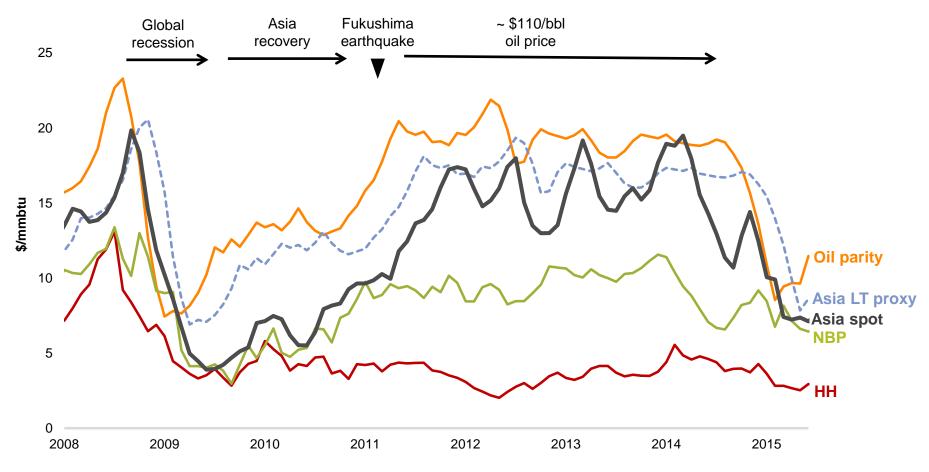


*Note: Short-term trade denotes trades under contracts of a duration of 4 years or less .

Source : GIIGNL



Gas and LNG prices (2008 – 2015)



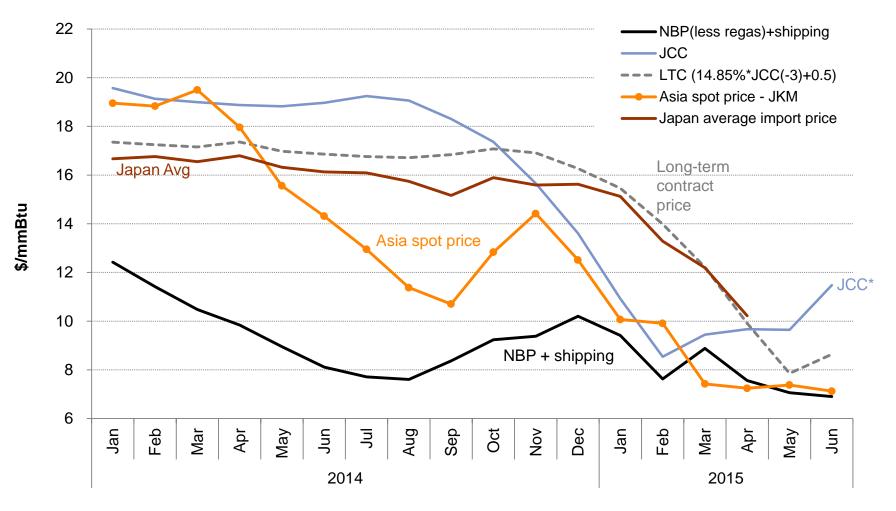
Source: Platts, Heren, Petroleum Association of Japan and Bloomberg (June 2015)

Oil parity = JCC = Japanese average crude price

Note: Asia long-term proxy = 14.85% JCC(-3) + 0.50



Gas and LNG prices Jan 2014 to date

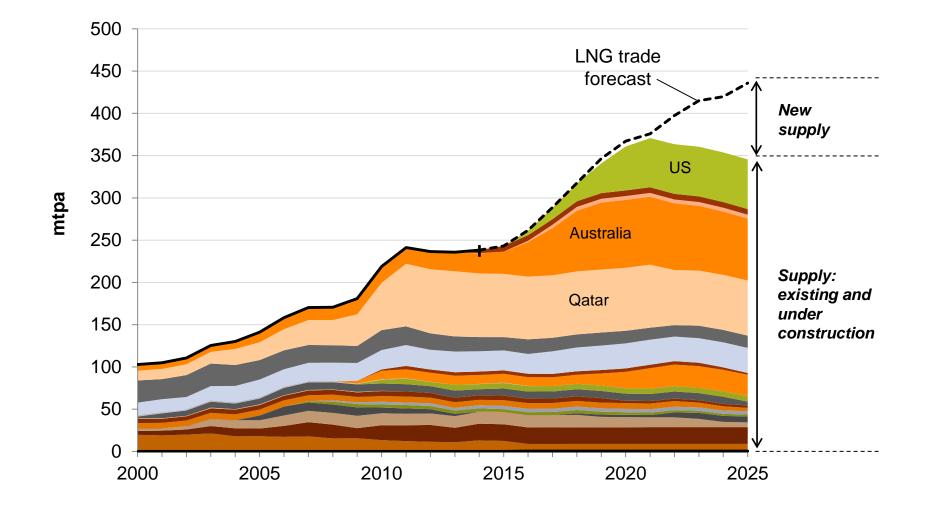


Source: Platts, Heren, Petroleum Association of Japan, Bloomberg and World Gas Intelligence (Jun 2015)

Shipping cost is the differential between shipping to Asia versus the UK at current market rates (~\$40,000/day charter rate) *JCC = actual to Apr, then calculated from Brent actuals / forward curve

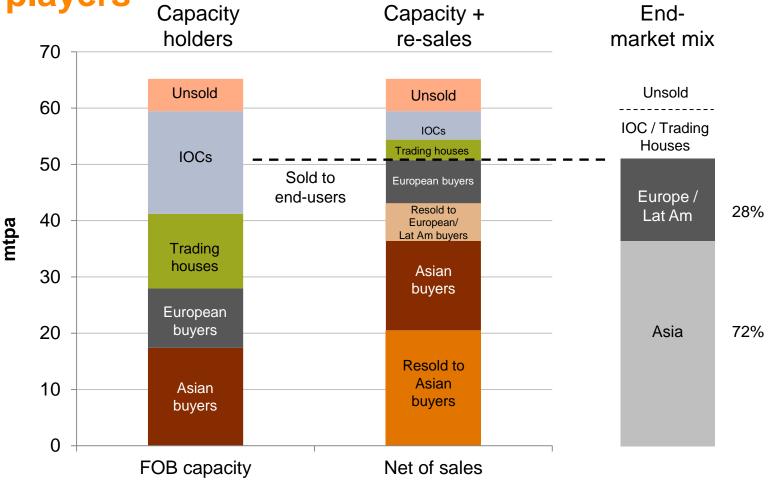


US, the next supply wave





US volumes: available to various LNG players



US projects included = those with offtake agreements: Sabine Pass T1-5, Cameron T1-3, Freeport T1-3, Cove Point, Corpus Christi T1-3, Elba. Note: excludes Lake Charles which is fully committed to BG Group

Source: Press articles and BG Group internal analysis (as of Mar 2015)



US LNG: providing new pricing constructs and additional flexibility

- No upstream development required
- Clear and transparent regulatory environment
- Projects developed by utility / infrastructure companies
 - Cost-based, HH indexed pricing to cover toll
 - Greater flexibility



Sabine Pass export terminal visualization Source: Cheniere analyst presentation (April 2014)



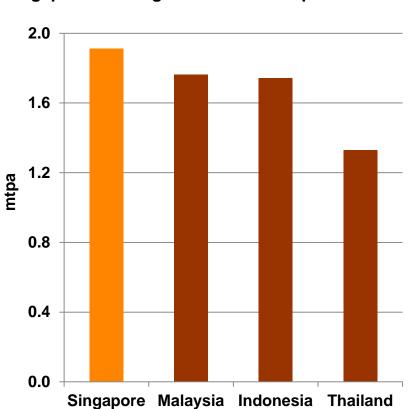
Atlantic basin: growing flexibility

- Strong supply growth
- US, a supply source providing flexibility
- Europe, a market providing flexibility
- Evolving role of buyers, sellers, portfolio-players, traders and infrastructure developers
- Growing liquidity: more flexible LNG available to more LNG players

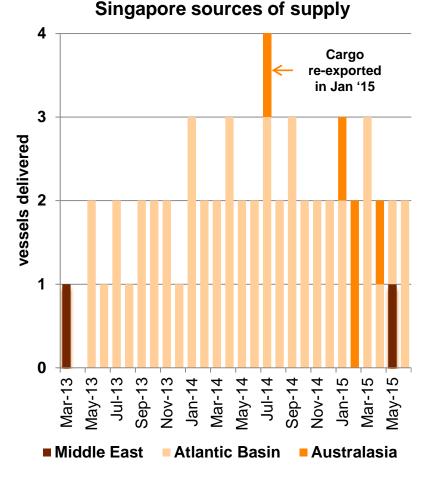


Singapore LNG deliveries





Source: BG Group interpretation of IHS Waterborne data (Jun 2015), delivered volumes



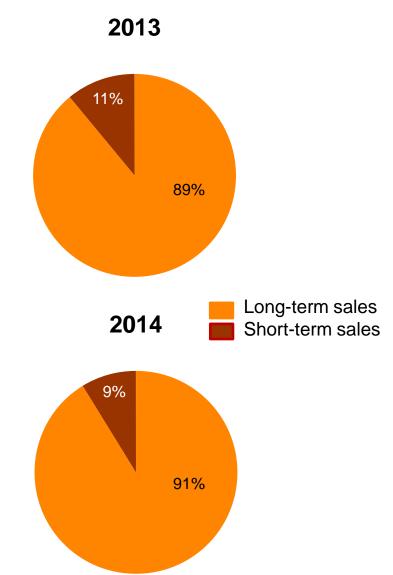
Terminal commissioned in Mar 2013, started commercial operations from May 2013

Singapore: the largest S.E. Asian importer in 2014

LNG supply into Singapore

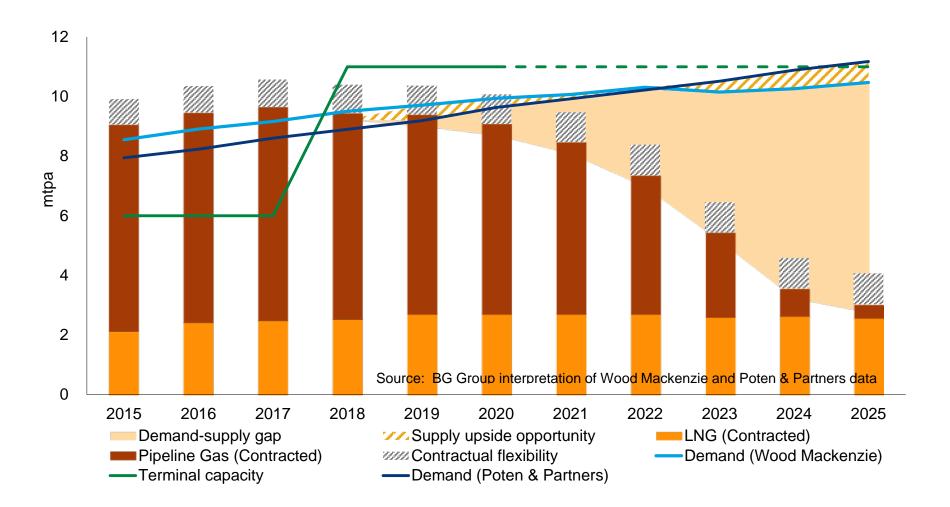


- BG Group aggregator for first 3 mtpa of long-term LNG demand
 - Connecting Singapore to the global LNG market
 - Innovative and unique aggregator business model
 - 2.63 mtpa already contracted
 - Additional short term sales and diversions taking place to optimise buyers' portfolios
- RFP process for post 3-mtpa imports underway
 - 4 companies shortlisted for Stage 2, including BG Group
- LNG demand essentially met by long term contracts





Singapore gas demand-supply balance



Singapore LNG terminal



- Asia's first open-access, multiuser terminal
- World class infrastructure
 - Current throughput capacity of 6 mtpa
 - Expansion to 11 mtpa underway
- Wide range of services:
 - Throughput
 - Cool downs
 - Storage and reloads
 - Potential for LNG bunkering
 - Potential for break bulking
 - Potential for LNG trucking





Potential of Singapore as a LNG hub

Advantages

- Singapore is already a hub of people, hosting an active LNG community
- Excellent geographical location and potential to offer a wide range of LNG support services
- Strong government ideology for traded market
- Good regulatory framework
- Existing physical gas and LNG infrastructures (except storage)
- Pipeline / LNG competition for long term demand
- Material LNG growth post 2022
- Secondary gas market reforms developing

<u>Challenges</u>

- Small gas demand in comparison to overall regional gas/LNG trade
- Pipeline gas and LNG demand essentially met by long term contracts





Conclusions

- LNG trade will continue to show strong growth
- Asia will continue to be a key market for LNG, but the buyers' needs are evolving
- The Atlantic Basin is further increasing the liquidity and flexibility available to the market
- The market continues to evolve and is meeting the buyers' needs
- No consensus on the need for a LNG hub, its structure and timing
- Singapore is a good location to host an exchange, a trading community and provide a series of LNG support services...
- ...but the underlying index of a LNG financial product will need to be based on a substantial physical spot LNG market to set the price of the global LNG spot market