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



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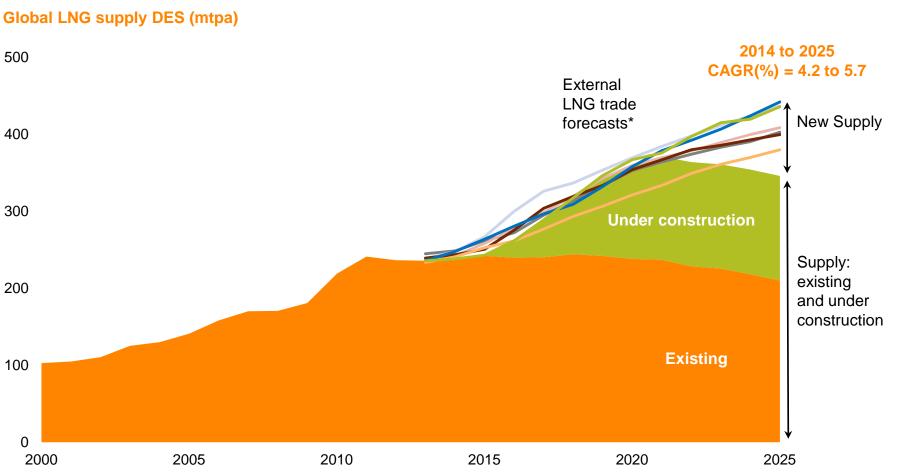
Agenda

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



LNG trade outlook to 2025





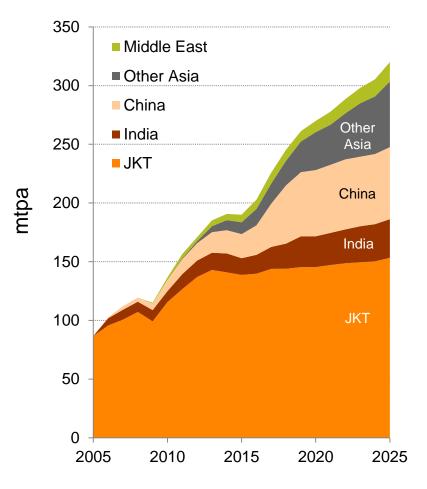
Sources: Supply (existing and under construction): BG Group interpretation of Wood Mackenzie data (Q2 2015)

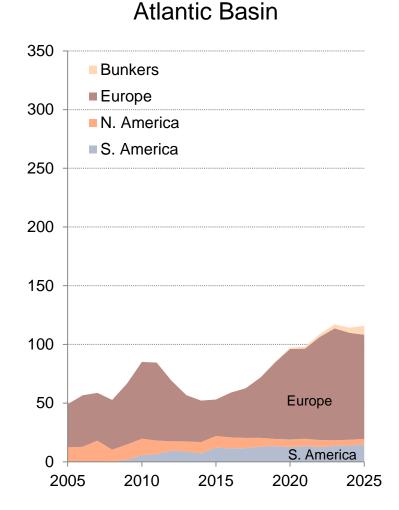
* Trade: various research house views; Wood Mackenzie, FACTS Global Energy, PFC, PIRA, IHS CERA, Gas Strategies, Poten & Partners

Demand: still driven by Asia



Pacific Basin



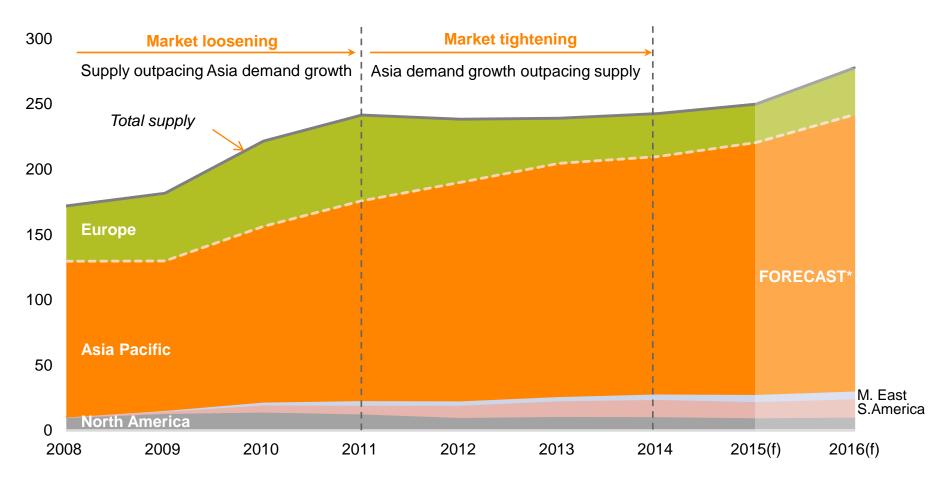


Source: BG Group interpretation of Wood Mackenzie data (Q2 2015)



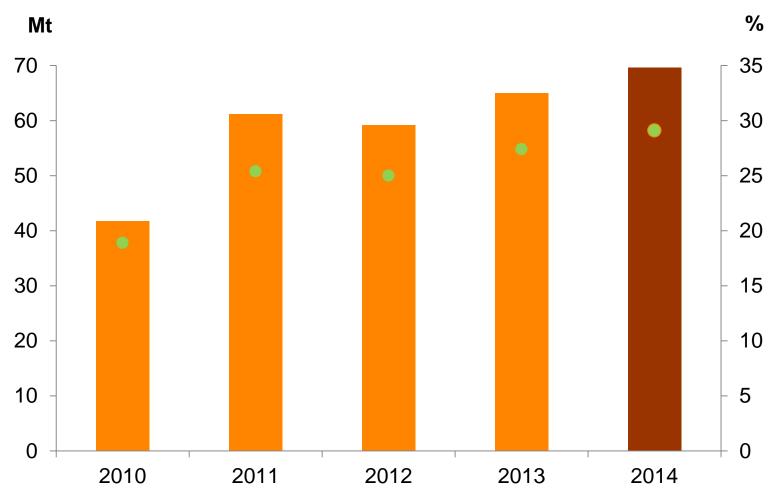
Europe, the balancing LNG market

LNG imports by region 2008-16 (mtpa)



Spot and short-term trade



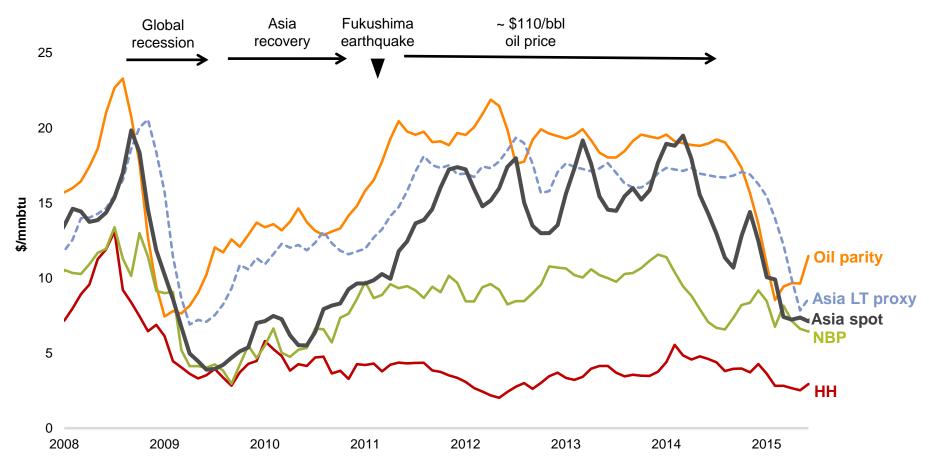


*Note: Short-term trade denotes trades under contracts of a duration of 4 years or less .

Source : GIIGNL



Gas and LNG prices (2008 – 2015)



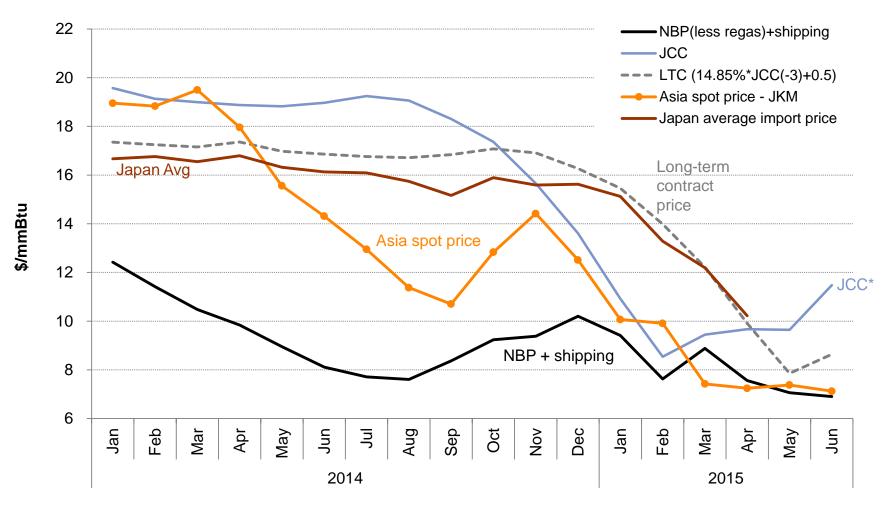
Source: Platts, Heren, Petroleum Association of Japan and Bloomberg (June 2015)

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

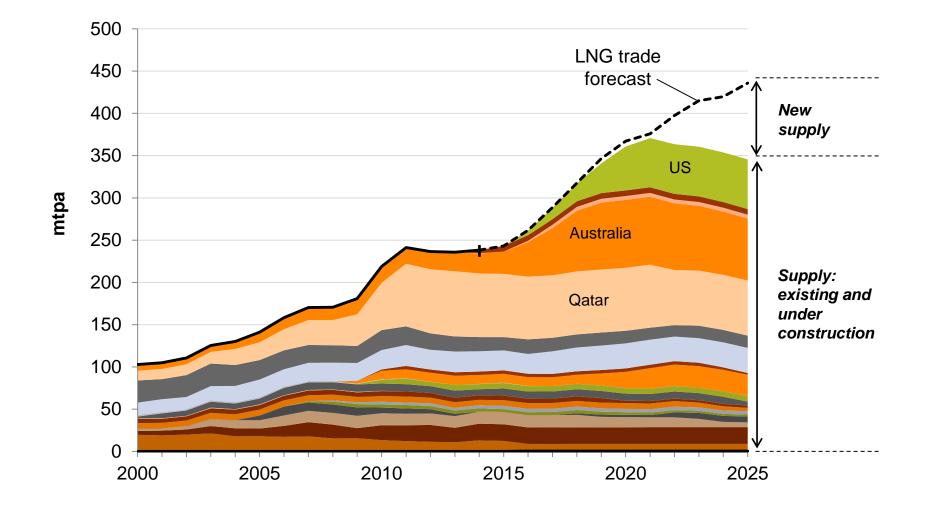


Source: Platts, Heren, Petroleum Association of Japan, Bloomberg and World Gas Intelligence (Jun 2015)

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

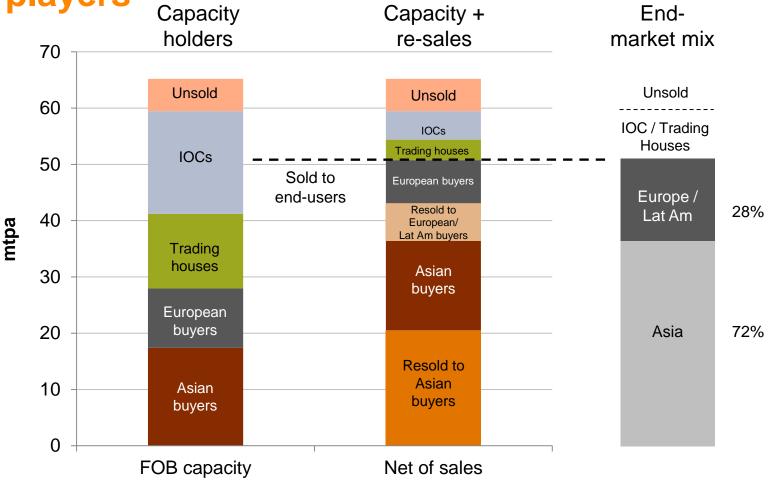


US, the next supply wave





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)



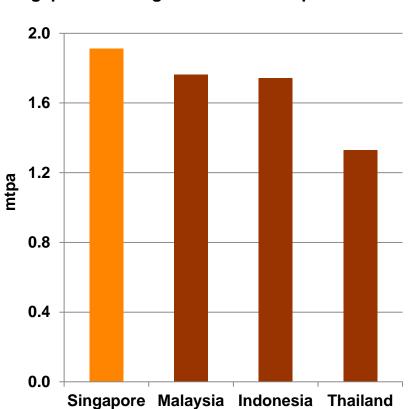
Atlantic basin: growing flexibility

- 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

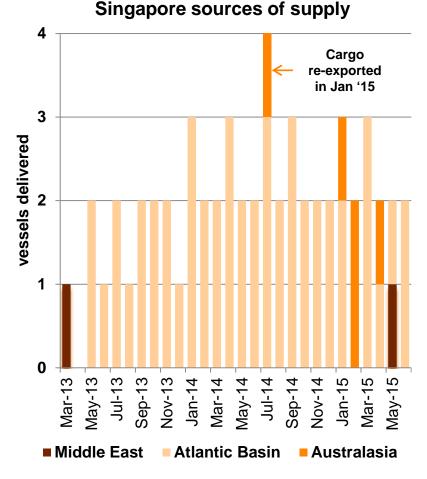


Singapore LNG deliveries





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



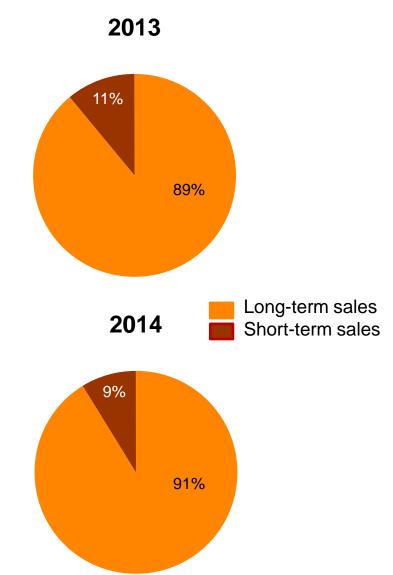
Terminal commissioned in Mar 2013, started commercial operations from May 2013

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

LNG supply into Singapore

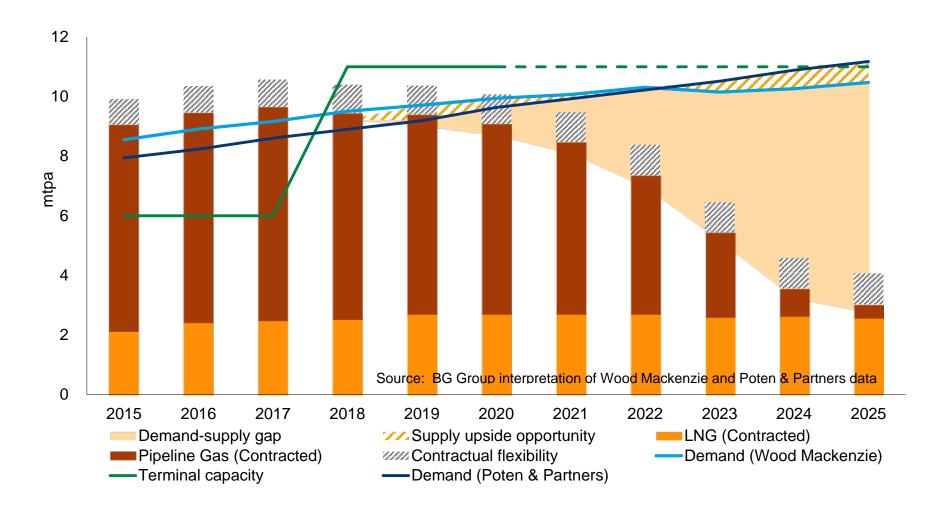


- BG Group aggregator for first 3 mtpa of long-term LNG demand
 - Connecting Singapore to the global LNG market
 - Innovative and unique aggregator business model
 - 2.63 mtpa already contracted
 - Additional short term sales and diversions taking place to optimise buyers' portfolios
- RFP process for 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





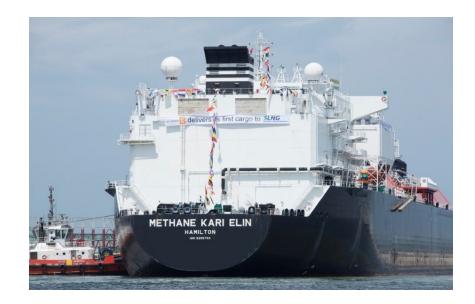
Potential of Singapore as a LNG hub

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