## Will NW European gas hubs become the new Brent for LNG?

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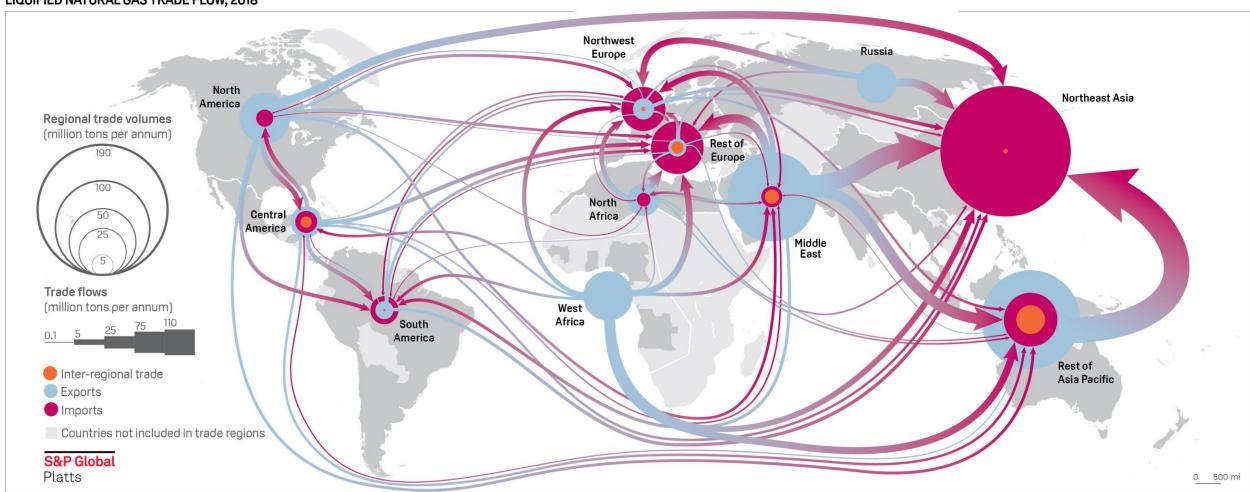
Global LNG Summit - Flame 2019





### LNG trade flows in 2018 gradually shifted from a demand pull into Asia to a supply push into Europe

LIQUIFIED NATURAL GAS TRADE FLOW, 2018

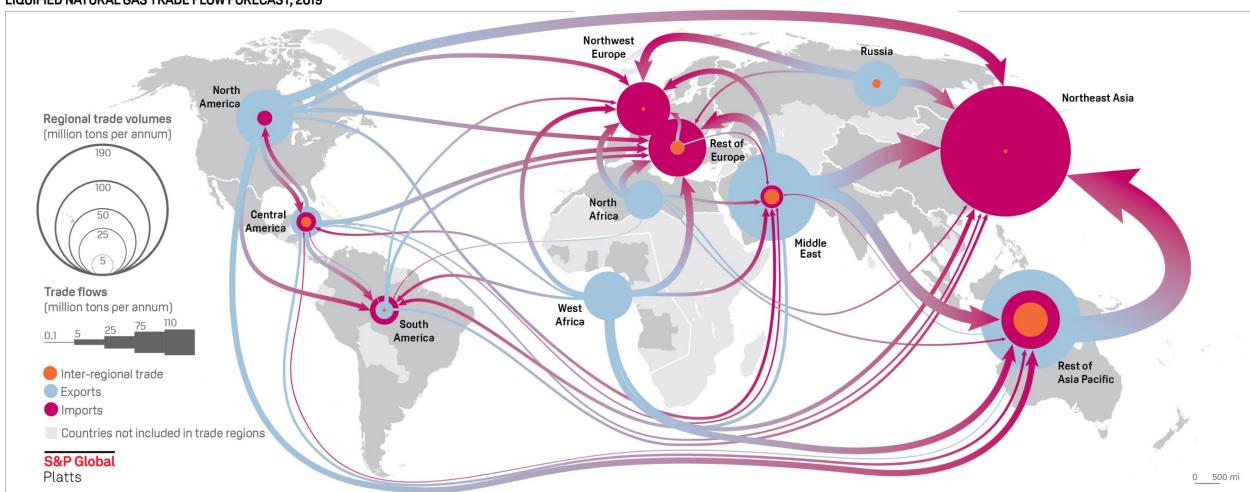


Source: S&P Global Platts



### Surging US supply will accentuate this shift into Europe in 2019 due to a weaker JKM outlook

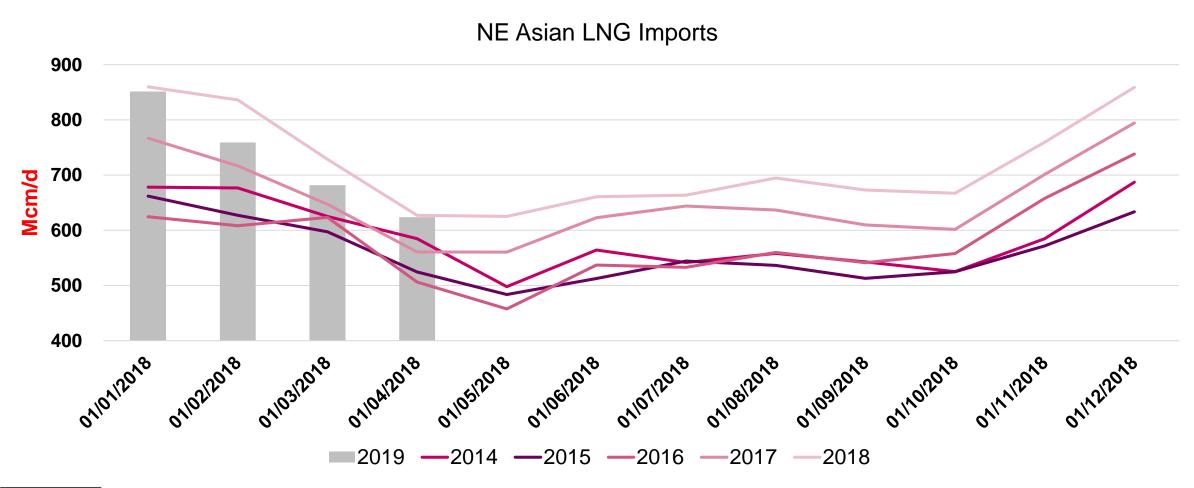
LIQUIFIED NATURAL GAS TRADE FLOW FORECAST, 2019



Source: S&P Global Platts

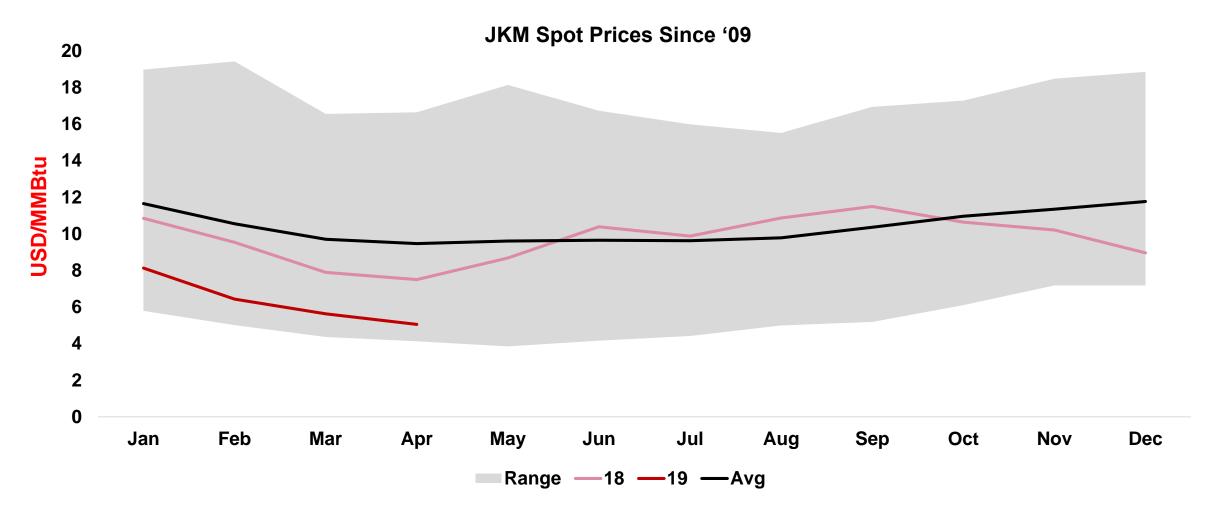


### Northeast Asian imports off to a slow start for 2019, driven largely by mild weather and high storage levels



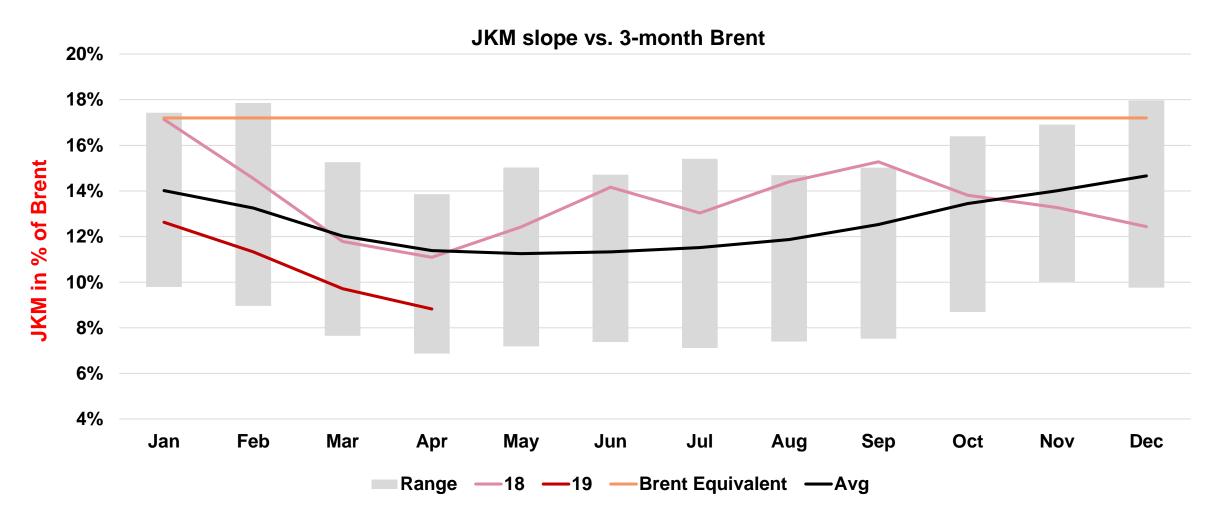


### With surging supply and muted Asian demand JKM has been in freefall since Q4 2018



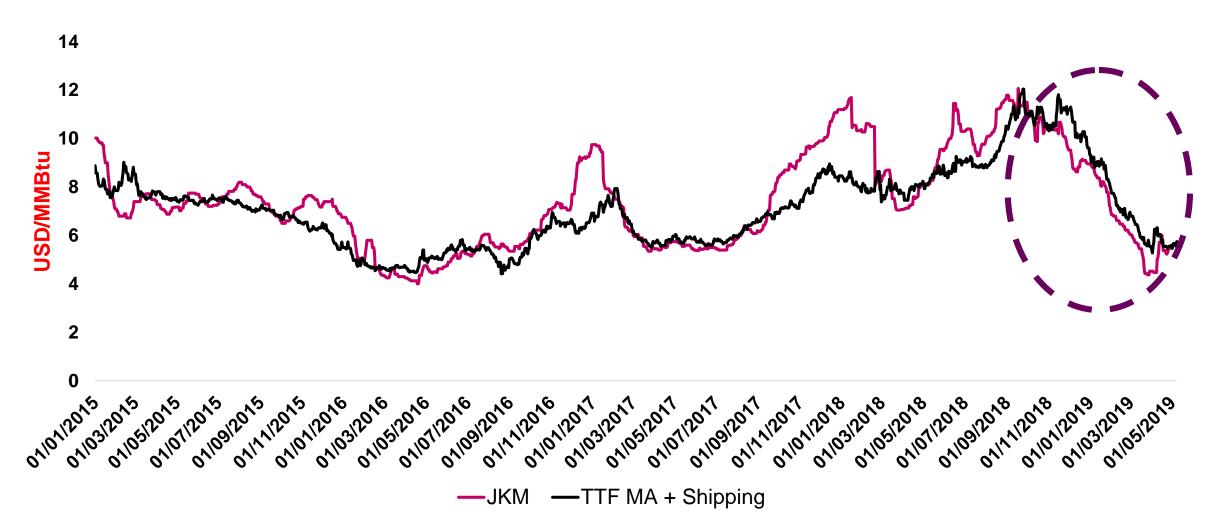


### Relative pricing of JKM to Brent still most appropriate measure of market tightness...but this may change

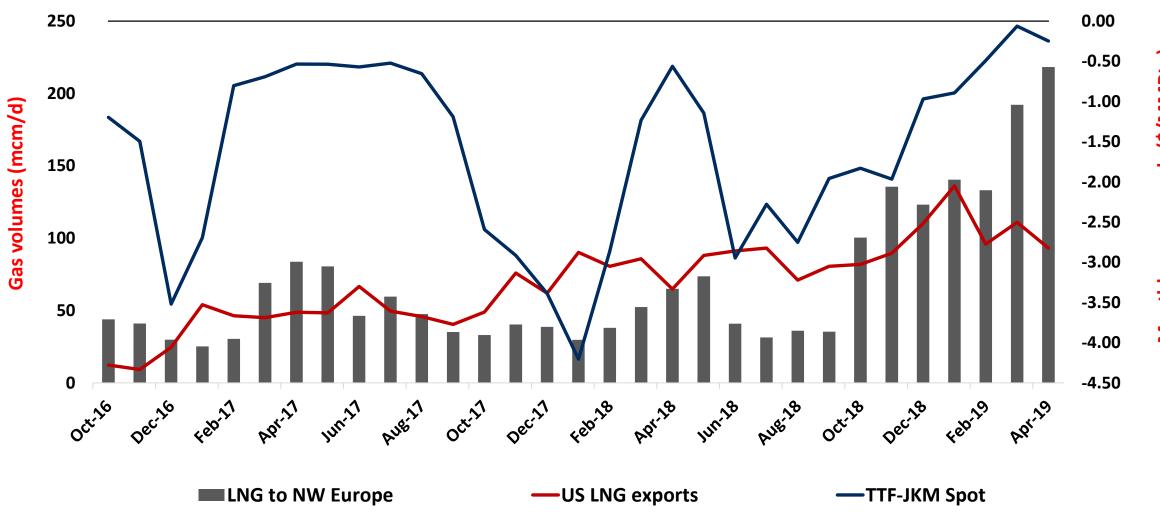




### Now JKM and TTF are chasing each other lower as growing supplies seek a home



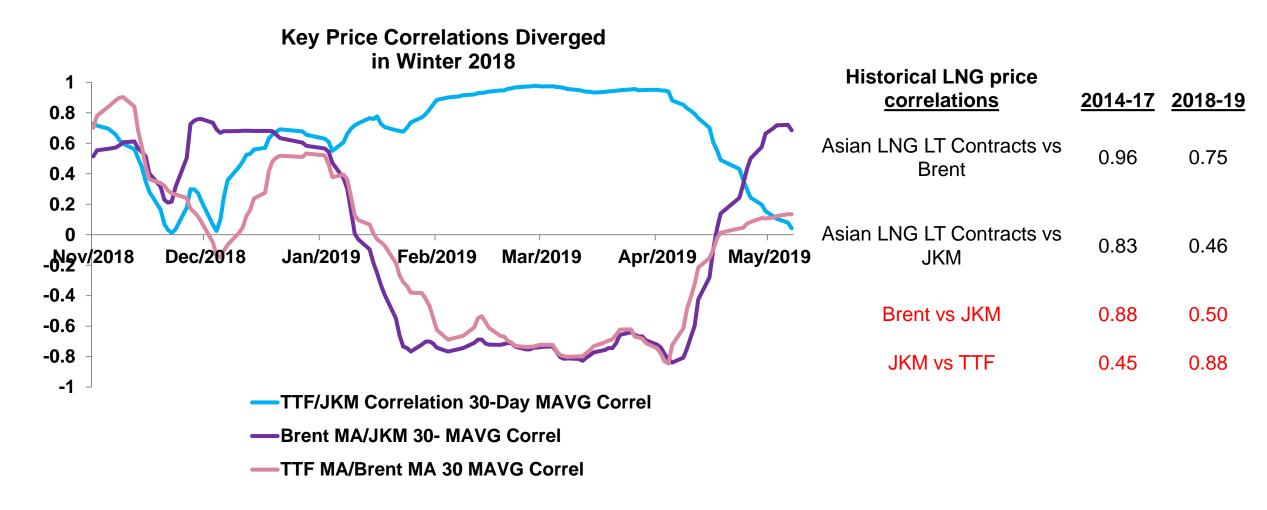
### JKM briefly falls below NBP/TTF for the first time in modern era, pushing record levels of LNG to Europe





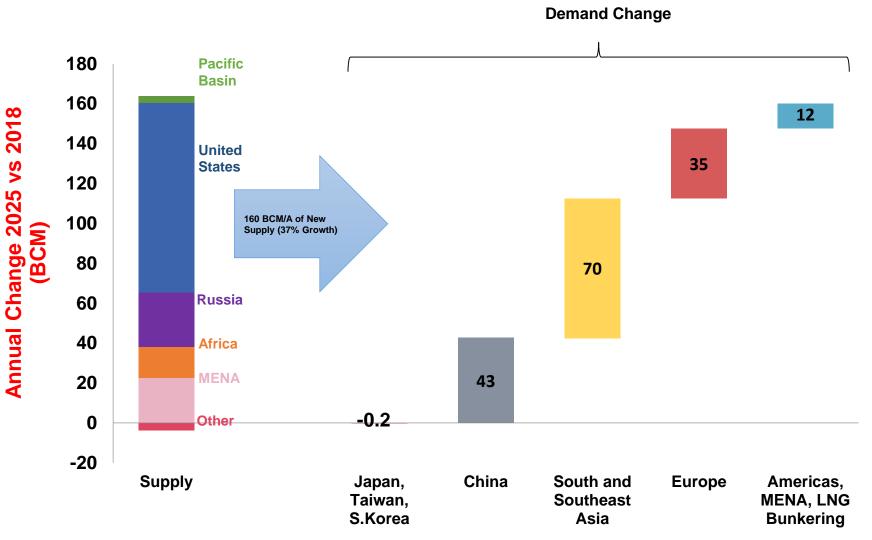
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### Commoditization of LNG market continues, increasingly trading on fundamentals of gas markets, not those of oil





#### LNG Supply/Demand Balance 2025 versus 2018



#### **Supply Side Dynamics**

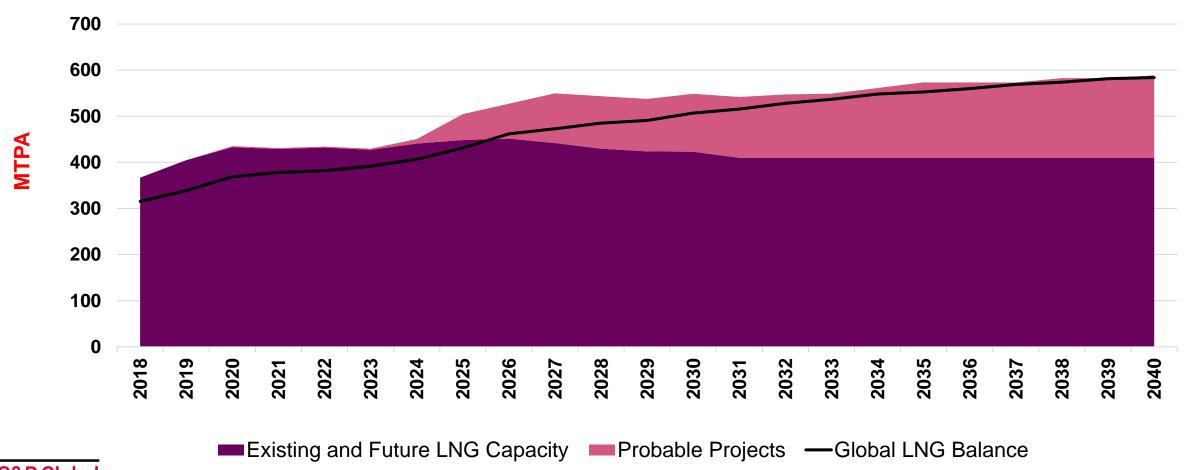
- Sustained high utilization at new projects (US, RUS, PNG) meets underutilization at legacy producers (AUS, DZA, BRN)
- NOCs take larger slice of North American LNG production

#### **Demand Side Dynamics**

- Short term upside risk (2020-2021) in Japan, S. Korea due to nuclear delays
- Southeast Asian (IND, BGD, THA) demand hinges on infrastructure build out in long term
- Europe LNG demand offsets domestic production declines

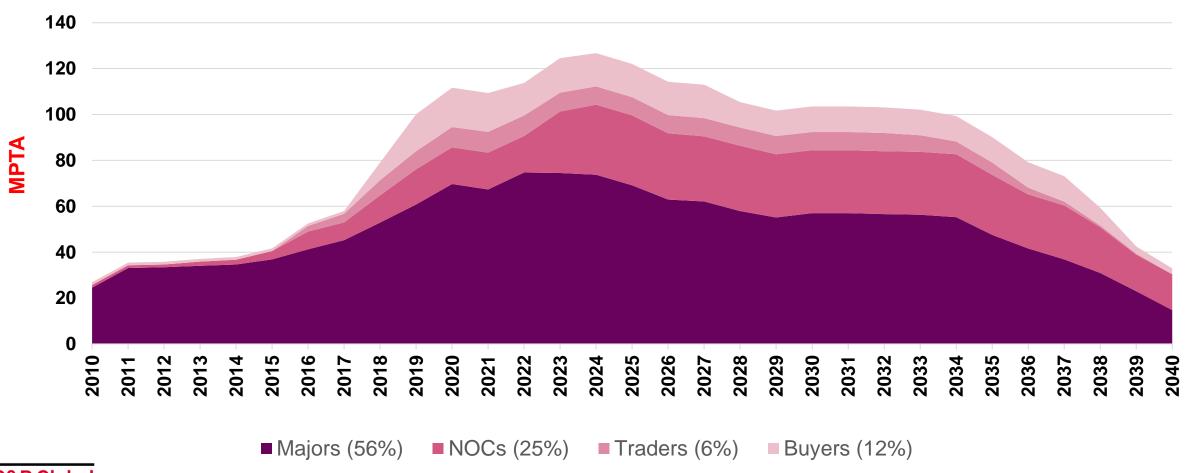
### Market growth covered by capacity through 2026; probable projects will require more aggressive pricing to build demand

LNG Capacity vs. projected demand and menu of projects

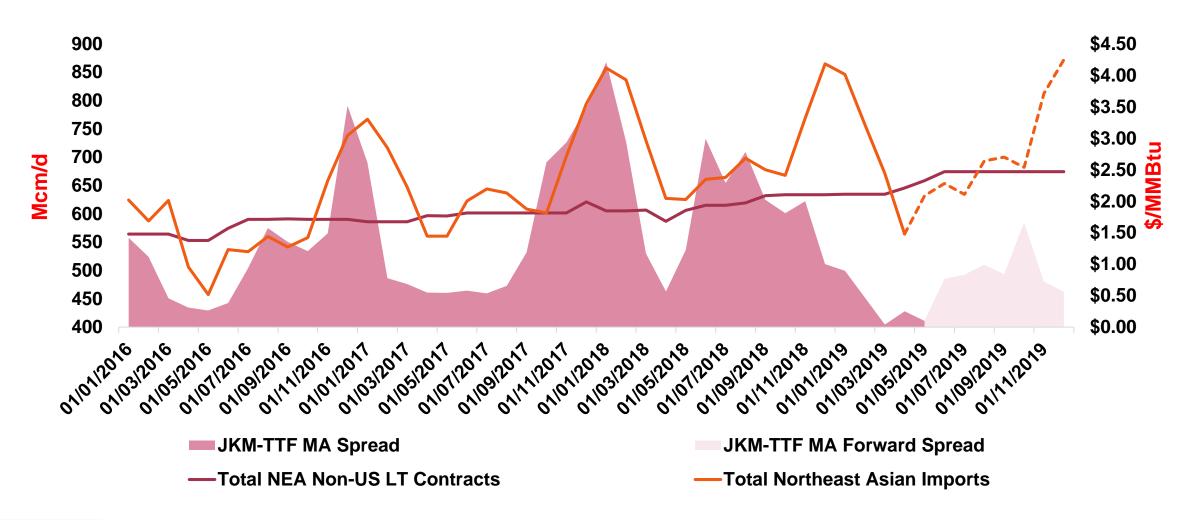


### Majors/NOCs control 80% of portfolio and will dominate spot liquidity, as projects are built without end user contracts

Portfolio volumes by type of owner



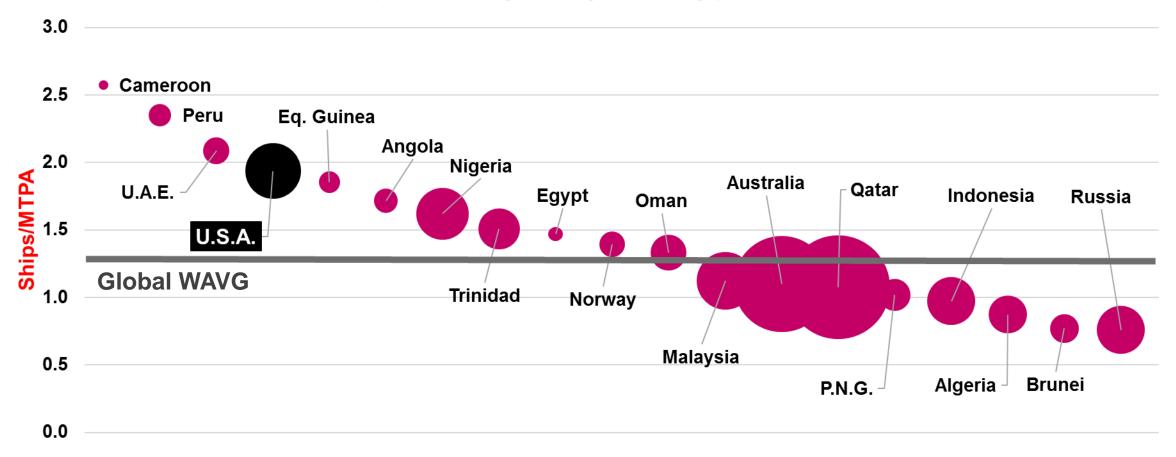
### Is contracted capacity in Northeast Asia creating market inefficiency?



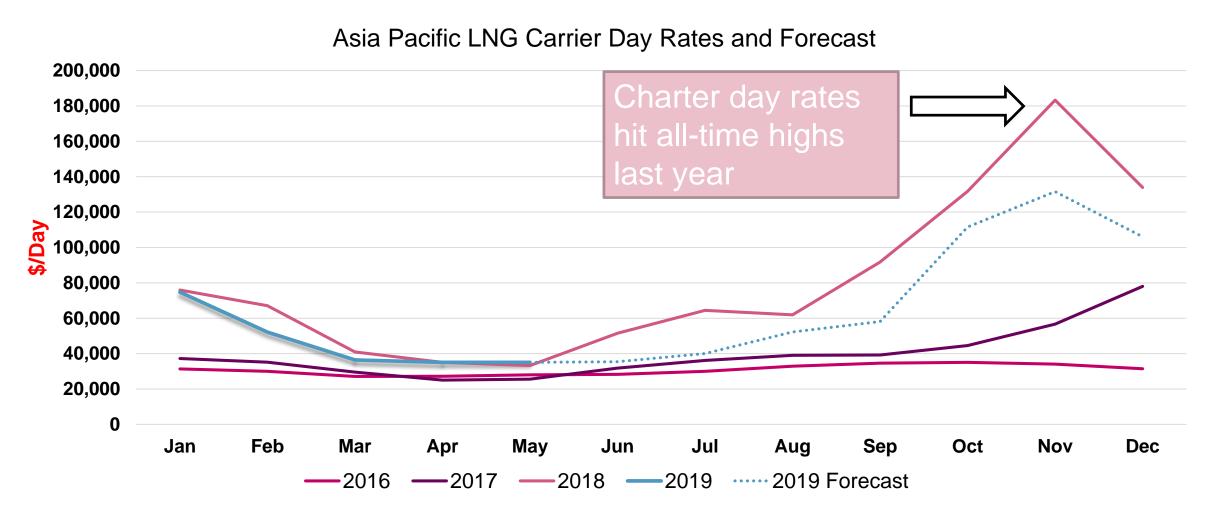


### New U.S. production will shift up global shipping demand; not only because of volume, but also due to the distance to market

#### Ships demand by country, scaled by production

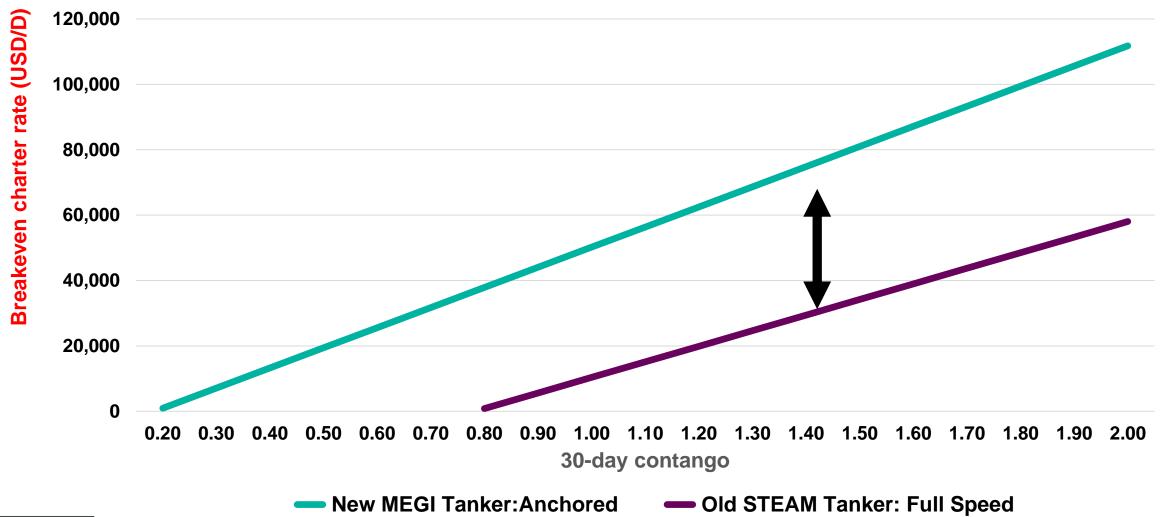


### Shipping rates expected to remain stable until this winter when spreads widen and ton miles increase

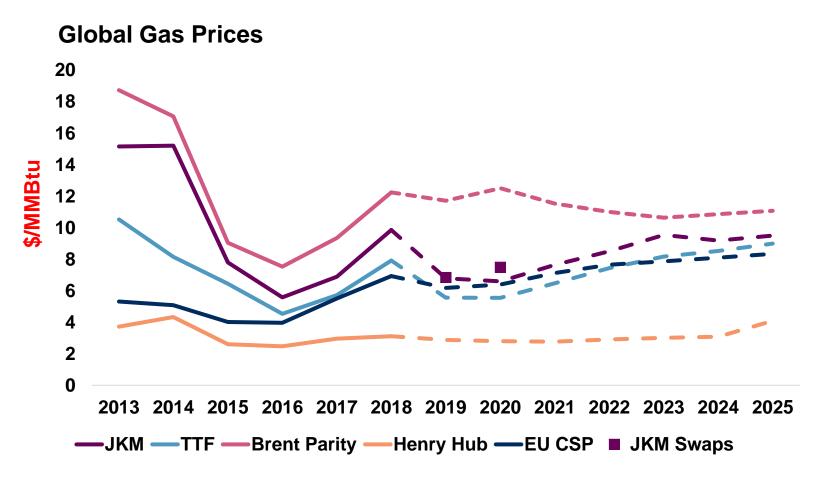




### Floating LNG storage economics: wide range of breakevens depending on technology and speed



### JKM to further decouple from Brent as market becomes more liquid with freely traded, hub-indexed US liquefaction capacity



- Flexible volumes will keep the spread between European hubs and JKM around re-load economics during tighter markets (2020-2022)
- Periods of large supply growth will catalyze convergence beyond shipping economics (2023-2025)
- Convergence below \$8/MMBtu could drive demand creation
- Downside risk to price convergence could arise from oil-price stickiness in Asia

# Decisions in the digital age?

Analytics is the answer.

