# Europe cementing a key role in LNG

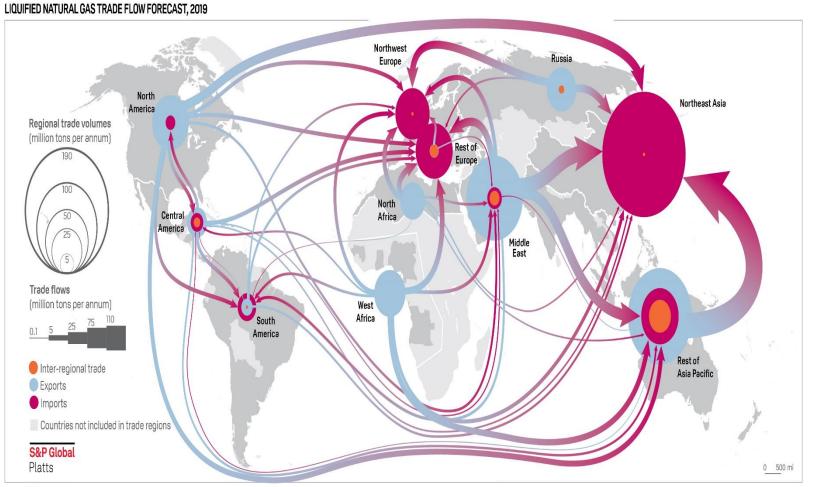
Global balancer, price anchor and demand centre in its own right

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## LNG trade flows gradually shifted from a demand pull into Asia to a supply push into Europe since Q4 -18

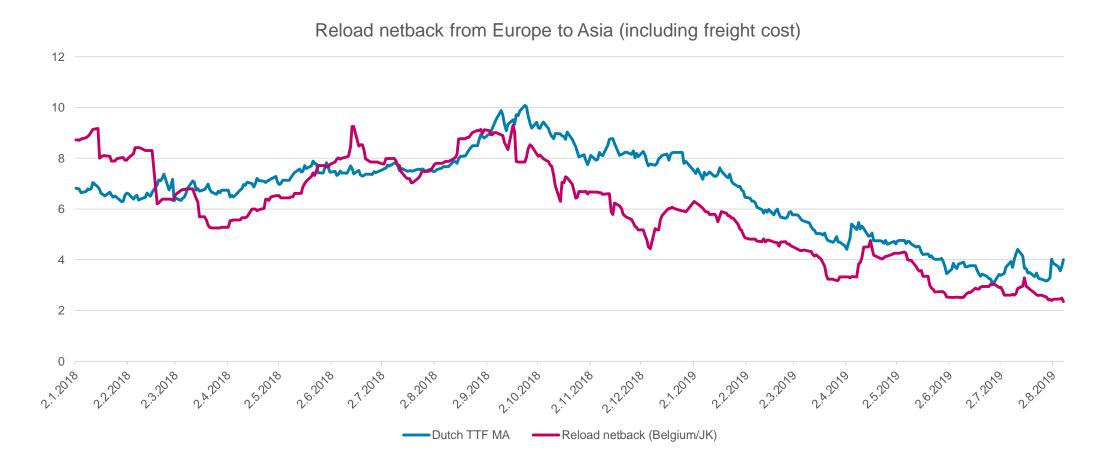


Surging supply and weaker Asian prices accentuates this shift in 2019

Source: S&P Global Platts

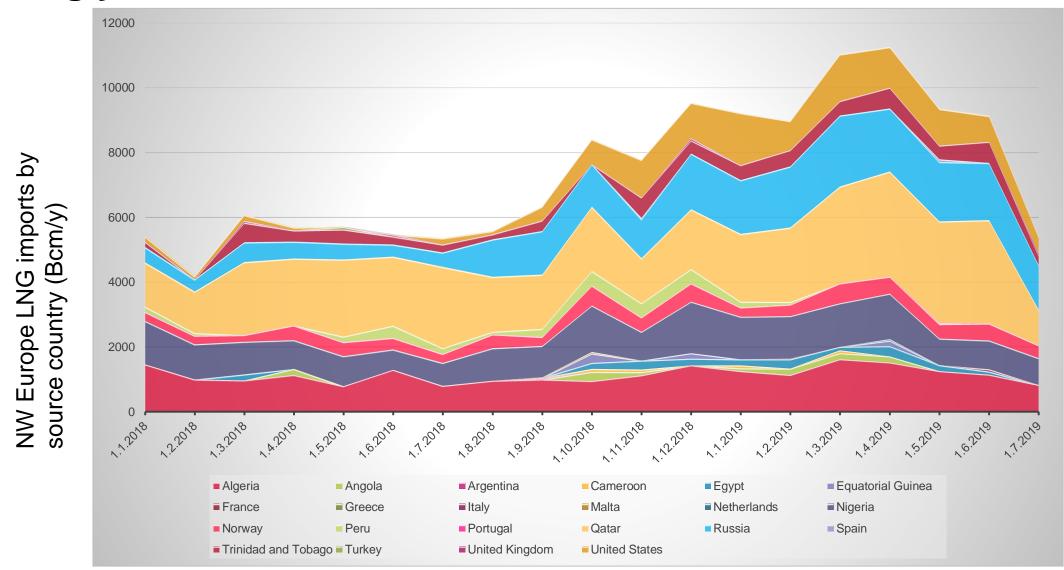
### This is because reloads from NW Europe to Asia have narrowed

\$/MMBtu



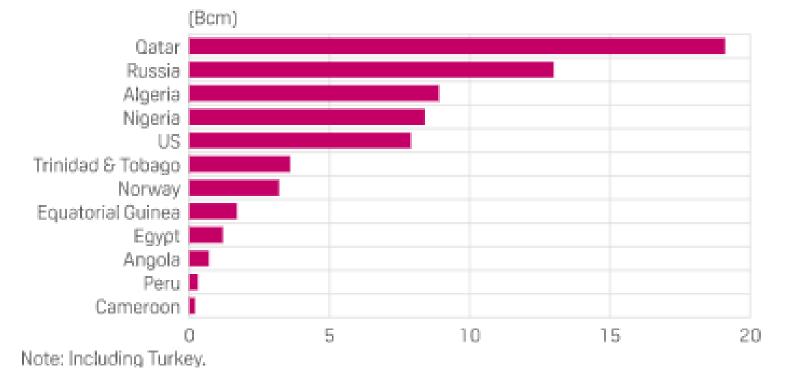
Source: S&P Global Platts

## In addition Russian and US LNG flows to Europe increased strongly since Q4 2018



Source: S&P Global Platts Analytics

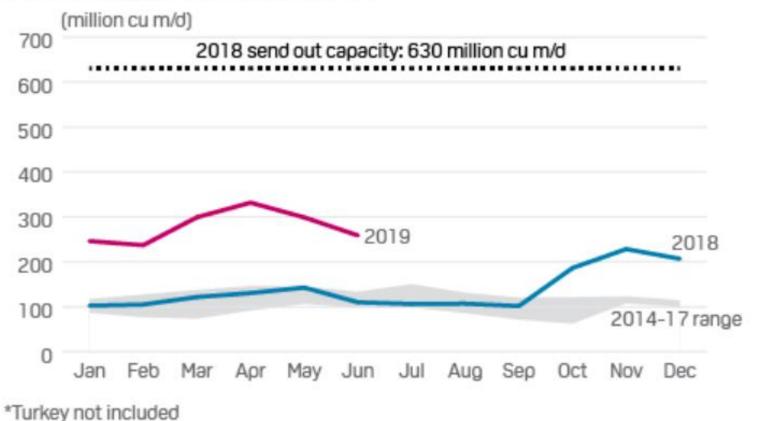
## Russia steadily rising in the ranks of European LNG suppliers: a trend likely to persist with coming new capacity



#### LNG INTO EUROPE: COUNTRIES OF PROVENANCE IN 2019

### Regasification capacity utilization up to 70% in NW Europe

#### EUROPEAN LNG SEND OUT BOOSTED BY LNG ARRIVALS SINCE Q4-18\*

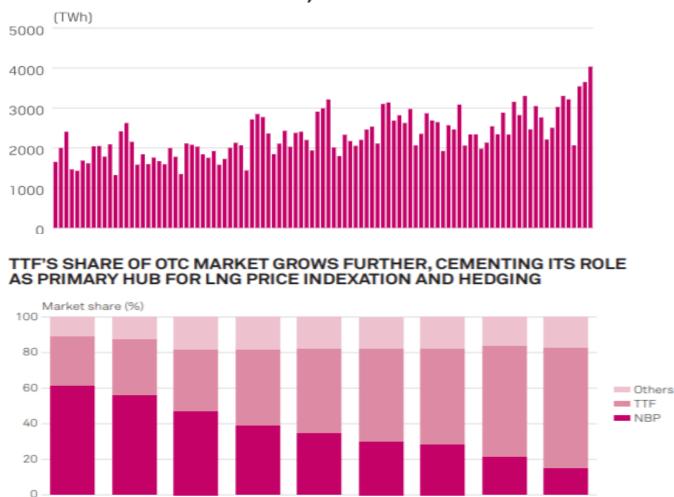


 LNG import terminals in Europe (built and planned) gain momentum

## Europe is a key LNG balancing market, price anchor and demand hub

- 100 Bcm/year of storage
- 220 Bcm/year of regasification
- More than 20 LNG regasification
- Liquid hubs, liquid NBP and TTF

### Liquidity has surged, especially at the TTF Helped by LNG imports growth



2015

2016

2017

2018

2019

#### OTC LIQUIDITY BREAKS ABOVE 4,000 TWh MARK

TTF becomes a reference to hedge even for the global LNG markets

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Several LT SPAs ٠ linked to TTF

2012 Source: S&P Global Platts Analytics, LEBA

2013

2014

2011

## Growing influence of Dutch TTF gas hub in LNG pricing

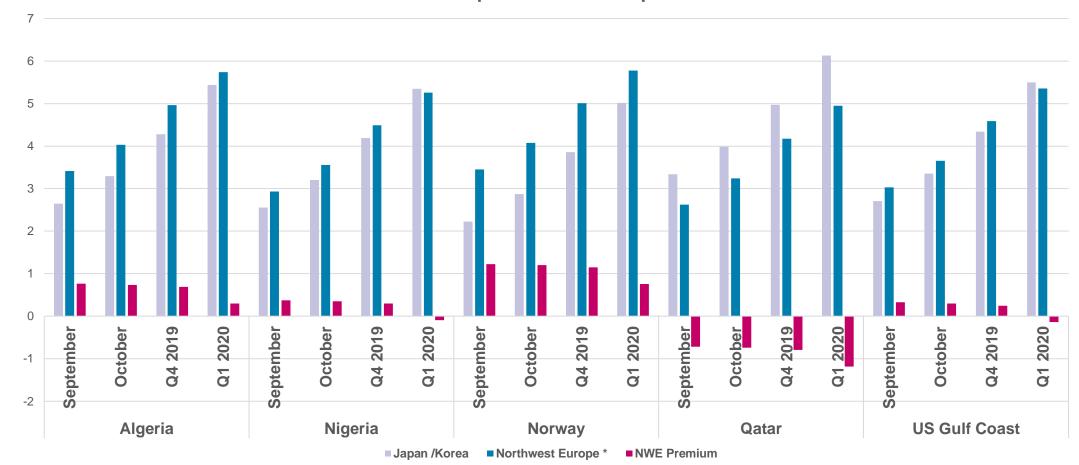


#### JKM SPOT DELINKS WITH ASIAN CONTRACTS, FALLS NEAR TTF

- Europe supports LNG prices in low demand periods, summer
- But this summer, JKM falls further from traditional Asian oillinked contracts

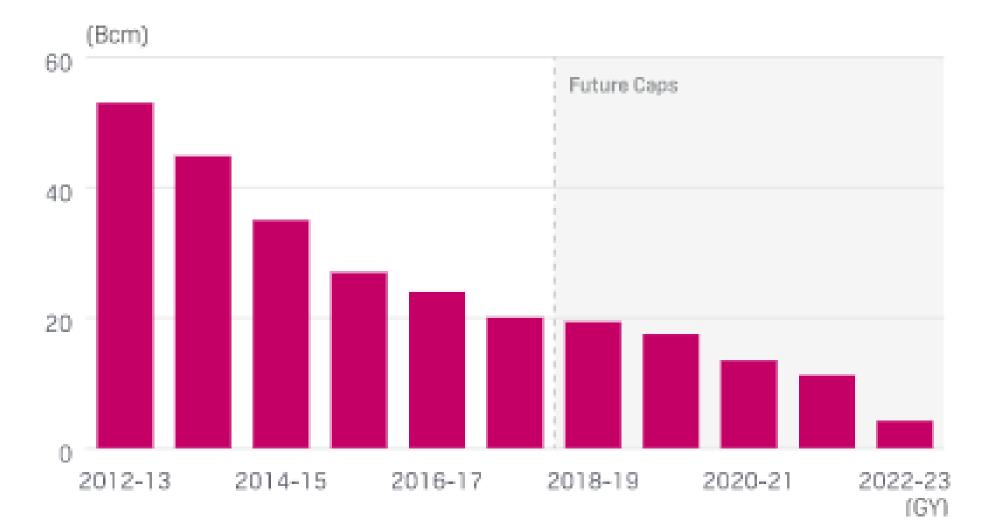
Source: S&P Global Platts Analytics

## Weak demand in Asia could be short-term: JKM/TTF spread could widen

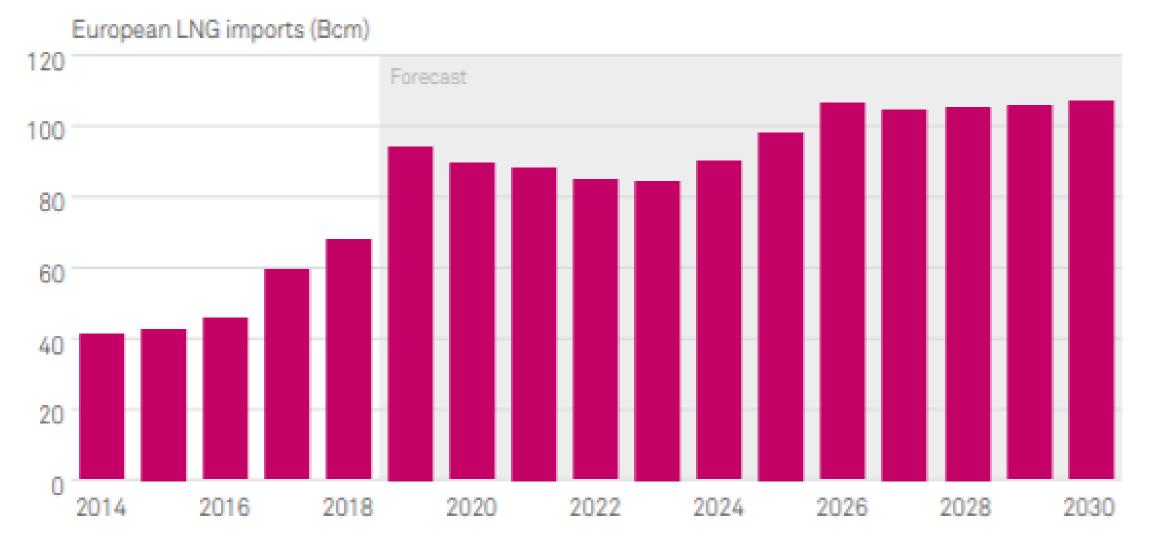


Asian/European netback comparisons

### But Groningen production in Europe set for rapid decline: More gas/LNG imports will be needed

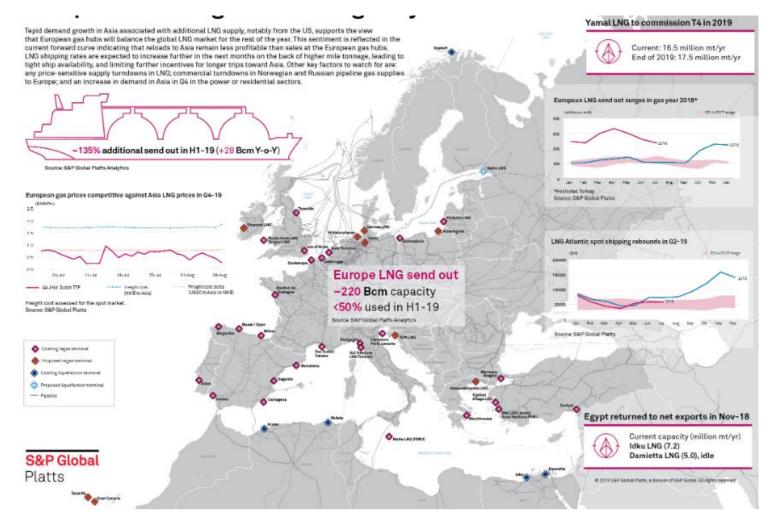


## European domestic production declines and coal is phased out from energy mix will support LNG imports



Source: S&P Global Platts Analytics

### New import LNG terminal projects in Europe: Economics, not just politics?



 Germany: <u>https://blogs.platts.com/2019/07/23/german-</u> <u>lng-does-market-need-them/</u>

The EU has also provided some initial support for four other LNG projects:

- the Shannon LNG terminal in Ireland
- the Alexandroupolis terminal in Greece
- the Gothenburg LNG terminal in Sweden
- and a capacity extension of the Swinoujscie plant in Poland

## LNG as a fuel: medium and small scales

- IMO 2020: Growing consensus that LNG is the best solution: no equivalent alternatives now that can match LNG's emissions profile and scalability, but things can change
- LNG business diversifying its operations into small scale LNG in order to create multiple income streams.



### European small scale LNG market expected to grow

- Supported by IMO 2020
- Still small part of the market
- European small scale LNG market is expected to grow from Eur1,902.6 million (2020) to Eur5818.7 million by 2030 at a CAGR of 11.8%
  - The road transport fuel segment likely to be the largest segment in 2020
  - The marine fuel segment is expected to emerge as the fastest growing segment, over the forecast period
- Some key companies: Engie; Fluxys S.A.; Gazprom; Novatek; Linde Gas; Skangas; Gasrec; Gasnor; Wärtsilä Corporation; General Electric; and LNG Gorskaya LLC, among others