LNG WAY TO THE FINAL CONSUMER: LNG SUPPLY TO THE EU'S EASTERN PARTNERS

2nd EaP LNG NETWORK WORKSHOP, May 17, 2019

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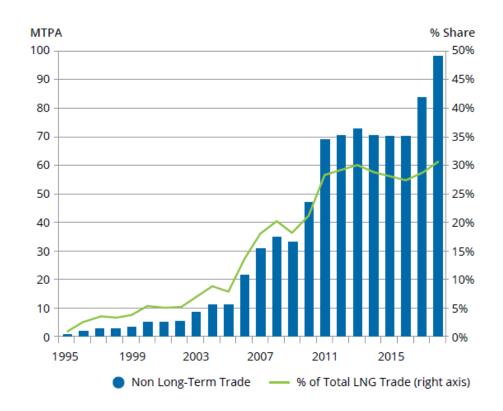
LNG TRADE IN 2018



Global LNG trade continues to grow by 7-10 % each year:

- LNG trade reached 430 BCM (+9% year-on-year (YOY) from 2017)
- Total trade value exceeded **\$150 bn**
- LNG accounted for 11% share of in global gas supply
- Spot & short-term trade reached 130 BCM (+28% YOY from 2017) and accounted for 32% of total gross LNG trade
- Europe imported 49 bcm of gas via LNG terminals and accounted for 15.6% of total LNG consumption

Non Long-Term Volumes, 1995-2018

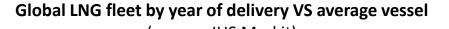


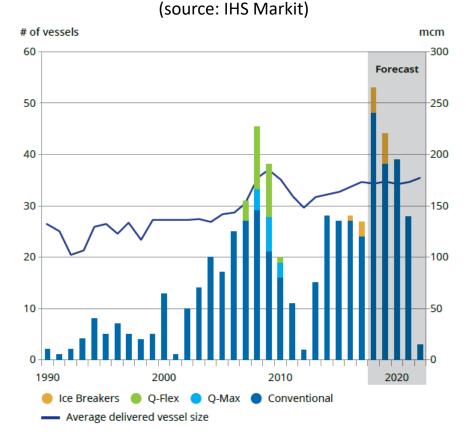


LNG SHIPPING FLEET



- The global LNG shipping fleet reached
 525 vessels as 53 new LNG carriers were added to the fleet, including 4 FSRUs
- **5,119** trade voyages made in 2018
- 118 LNG carriers are under construction till 2022, 59 of which were ordered in 2018 (+195% YOY increase)

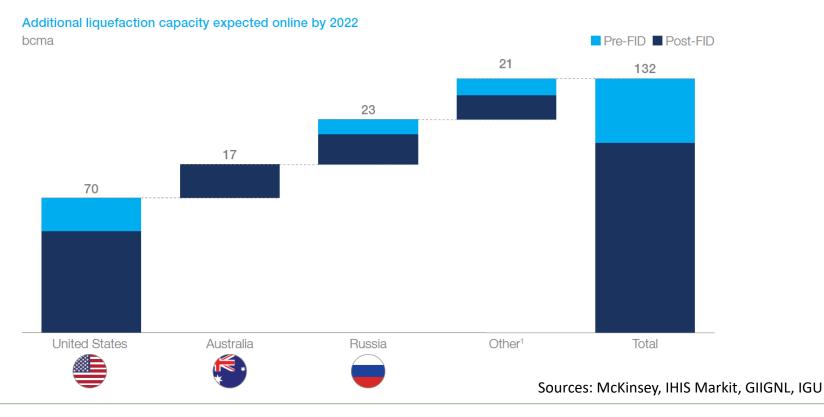






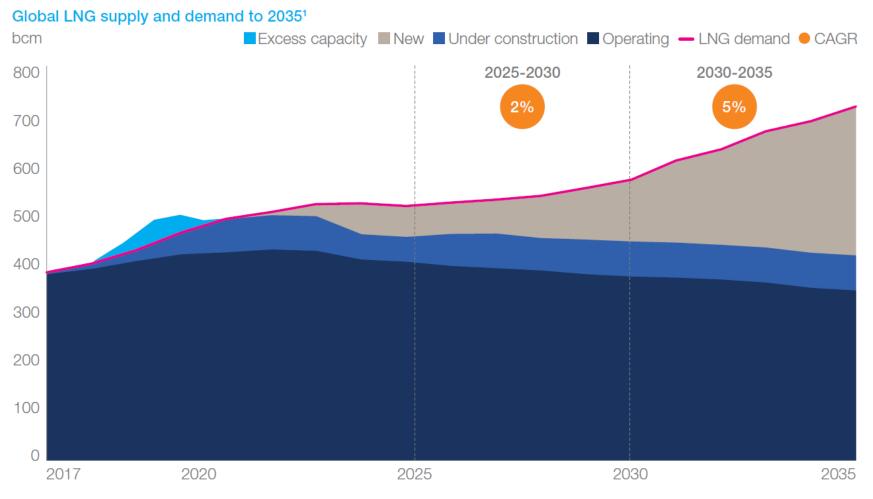
U.S. TO LEAD LNG MARKET GROWTH: **50%** OF ALL NEW LIQUEFACTION CAPACITY IN 2019-2024 WILL BE LOCATED IN U.S.

- Globally LNG export capacities are expected to grow by 22% in 2019-2024
- **132 BCM** (101.3 MTPA) **liquefaction capacity is under construction** or sanctioned for development, out of which **75% is located in North America**
- U.S. LNG export capacity will reach 90 BCM/Y in 2019 (+80% YOY from 2018);









Source: Energy Insights analysis, Energy Insights Gas Intelligence Model, IHS Vantage



5 benefits brought by Klaipeda LNG terminal

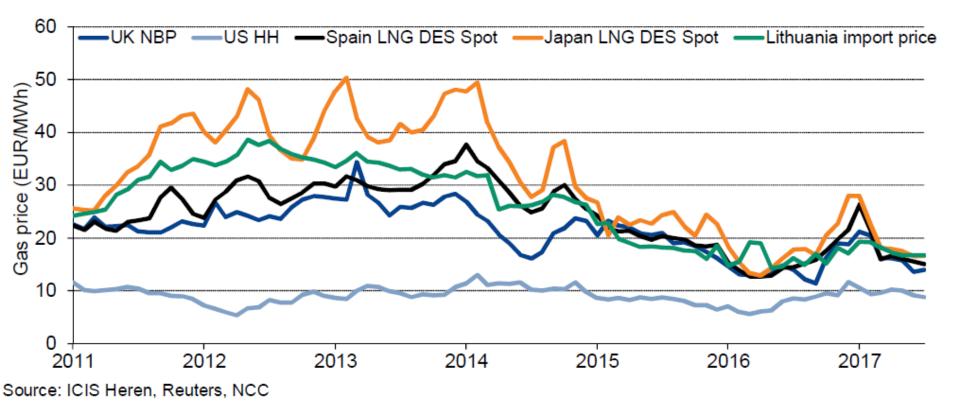
- 1. End to six-decades-long Russian gas supply monopoly in the Baltic States
- 2. Ensuring secure & **diversified natural gas supplies** at competitive prices to the whole region
- 3. Provided gates for LNG suppliers to the **broader North/East Europe gas markets**
- Eliminating gas price differences between
 Western European gas hubs and Lithuania and
 Iowering Russian gas imports by 50%
- 5. Promoting **innovative LNG use** in maritime & transport sectors as alternative fuel for ships, trucks, public transport, trains





Historical spot LNG and hub natural gas prices







PRICES IN THE BALTICS CONVERGE WITH EUROPEAN HUBS



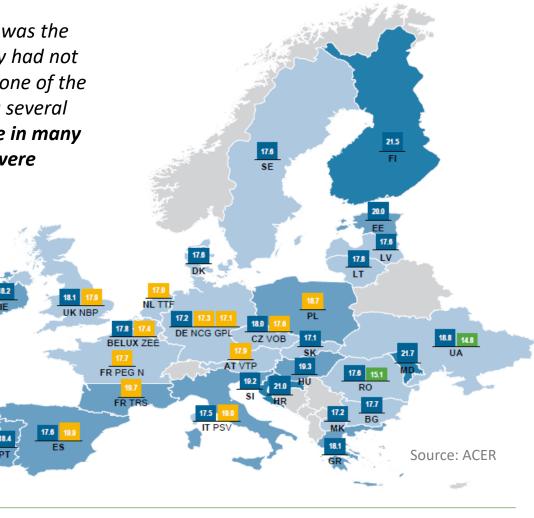
Council of European Energy Regulators (2017 report):

"Before the existence of this terminal, Russia was the only gas supplier of Lithuania and the country had not any other supply alternative. This resulted in one of the highest wholesale gas prices in the EU during several years (around 35 €/MWh by end 2014, while in many other European countries wholesale prices were around 23 €/MWh)."

Historical price spreads between TTF and average LT import price:

- 2014: 12 €/MWh
- 2015: 2,5 €/MWh
- 2017/18: <1 €/MWh

Overpayment of 12 €/MWh for LT country-wide means extra ~300 mEUR/y



Average gas price spreads between TTF and other markets in 2017:



Import prices declared at the border Hub hedging prices Indigenous production ≤1 euro/MWh 1-3 euro/MWh > 3 euro/MWh

GIPL PROJECT







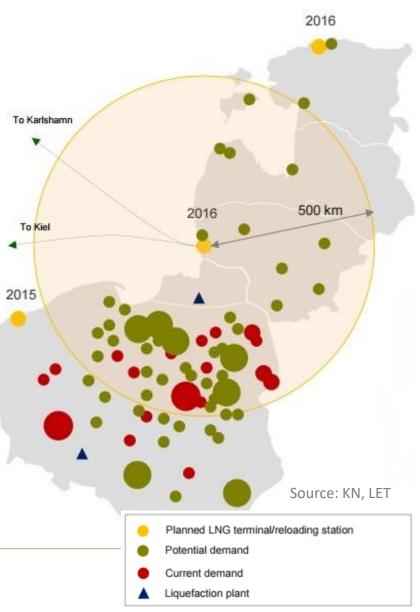
LNG RELOADING STATION IN THE PORT OF KLAIPĖDA



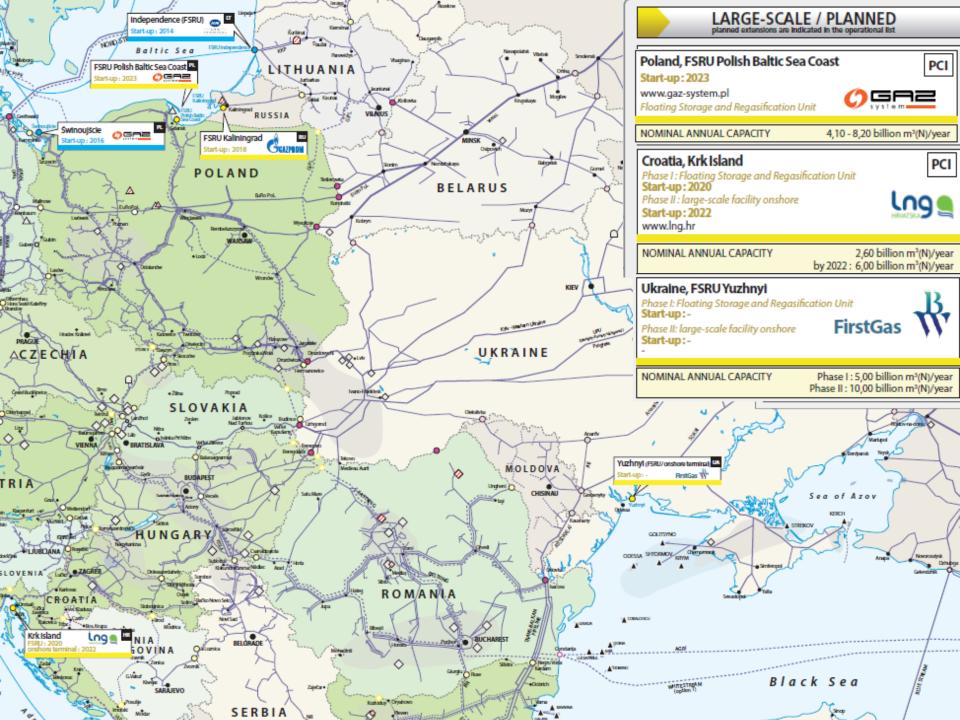


In 2017 *Klaipedos nafta (KN)* opened a small-scale LNG reloading facility in the port of Klaipeda (capacity: 5,000 m3 of LNG)

LNG reloading station is a truck-loading LNG station, LNG-loaded trucks supplies customers in the region which uses LNG as a fuel for ships and heavy vehicles, also supplies LNG to the off-grid regions which are not connected to the main gas transmission systems









Thank you for your attention

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