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#### Content



Growing recognition of the role of gas and LNG as the world tackles poor air quality and climate change

Asian LNG imports exceed expectations again in 2018 absorbing continued supply growth

Near term supply growth expected to be absorbed by Europe and Asia – continued need for investment in supply to meet long-term demand growth



Growing recognition of the role of gas and LNG as the world tackles poor air quality and climate change

#### The energy challenge

## Growing population

According to United Nations estimates, the current world population of 7.6 billion is expected to reach 8.6 billion in 2030, 9.7 billion in 2050 and 11.2 billion in 2100. Nearly a billion people still live without electricity while another billion struggle with unreliable supplies of electricity.

## Rising demand

By 2070 the world is likely to be using at least 50% more energy than it does today as population grows and people seek to improve their quality of life.

## Need for energy solutions

According to the International Energy Agency (IEA), renewable generation is expected to underpin the growth of electricity from 18% to 50% of energy supply by 2050. The remaining energy demand that is difficult to electrify will still require cleaner solutions.

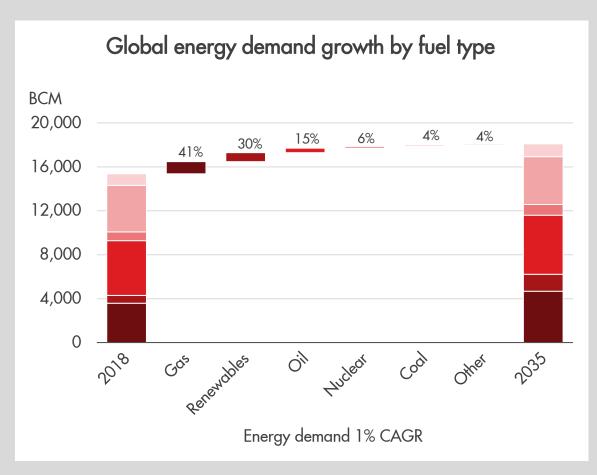
## Mitigating climate change

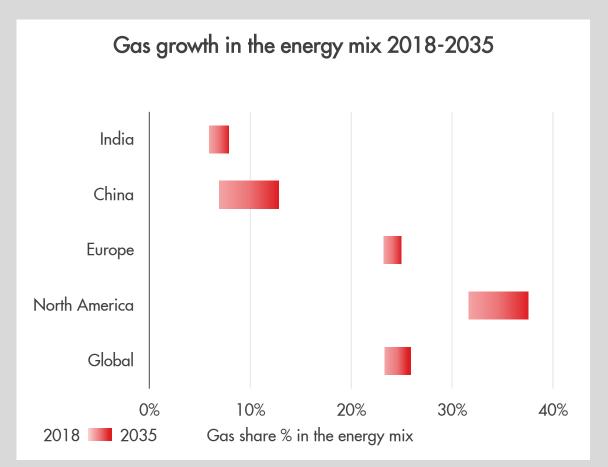
The world currently emits 33 billion tonnes of energy-related CO<sub>2</sub> each year. To limit the rise in global temperature to 2°C, the IEA has calculated that energy related CO<sub>2</sub> emissions need to fall to around 18 billion tonnes a year by 2040. The challenge is not just to reduce emissions, but to do this while providing more reliable energy supplies.

## Improving air quality

Updated World Health
Organization (WHO) estimates
reveal an alarming death toll of
7 million people every year
caused by outdoor and household
air pollution. According to WHO,
global air pollution is linked to
inefficient energy use in every
sector of human activity including
coal-fired power plants, industry,
agriculture and transport.

# Gas and renewables to play a critical role in meeting the energy challenge

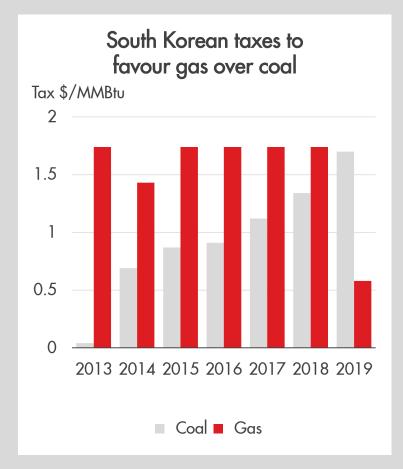


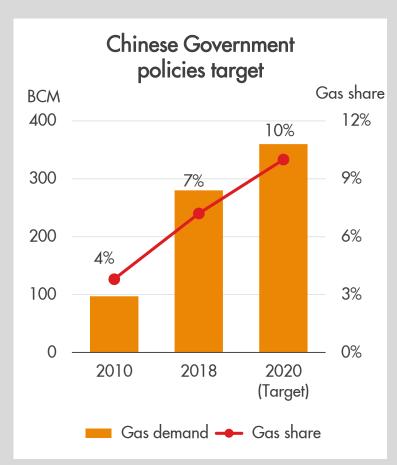


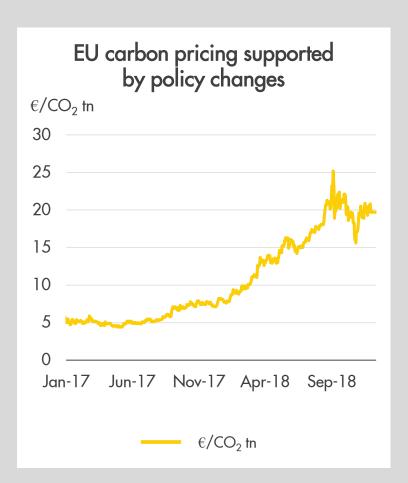
Source: Shell interpretation of Wood Mackenzie Q4 2018 data

CAGR - Compound annual growth rate

# Government policies being implemented encouraging a cleaner energy mix

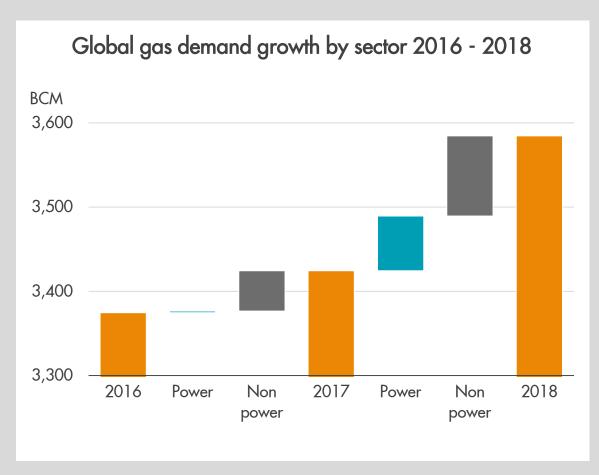


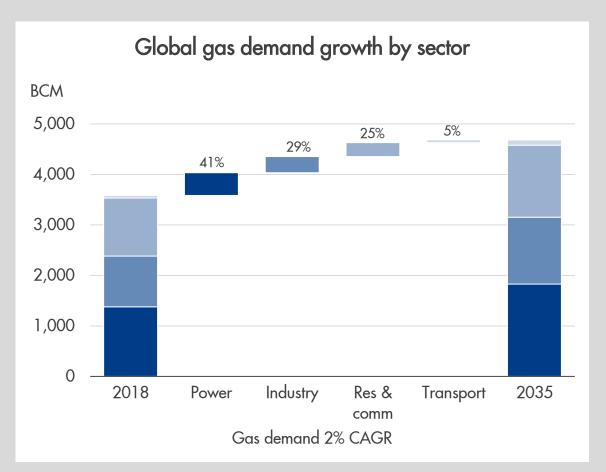




Source: Shell interpretation of IHS Markit and ICE Q4 2018 data and announced public policy

#### Gas demand growth not reliant on the power sector

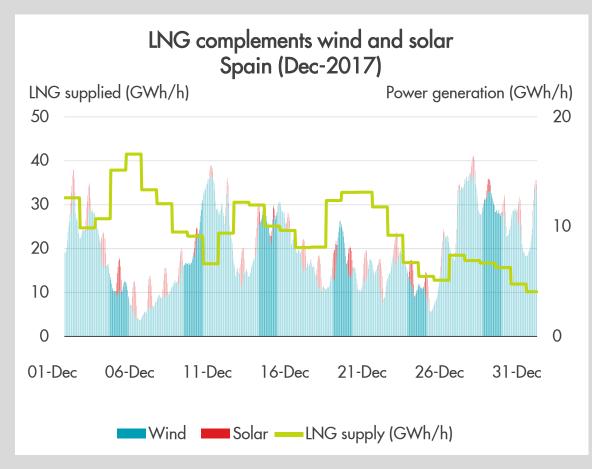


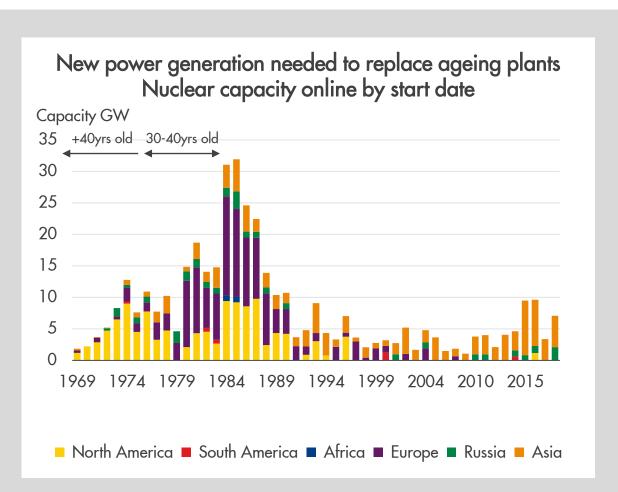


Source: Shell interpretation of Wood Mackenzie Q4 2018 data

Res & Comm - Residential and Commercial

#### Gas provides required flexibility for power generation

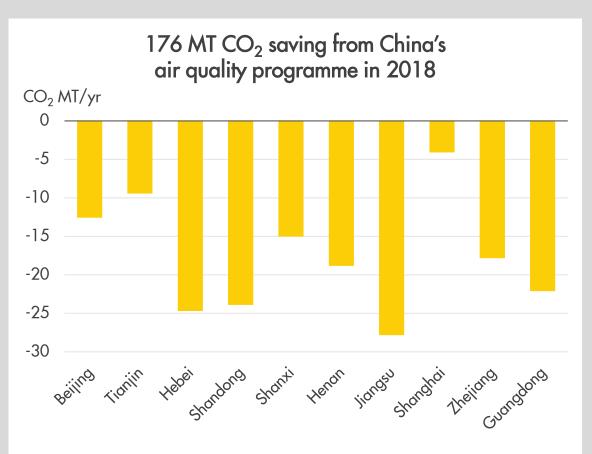




Source: Shell interpretation ENTSOG, REE, World Nuclear Association 2017 and 2018

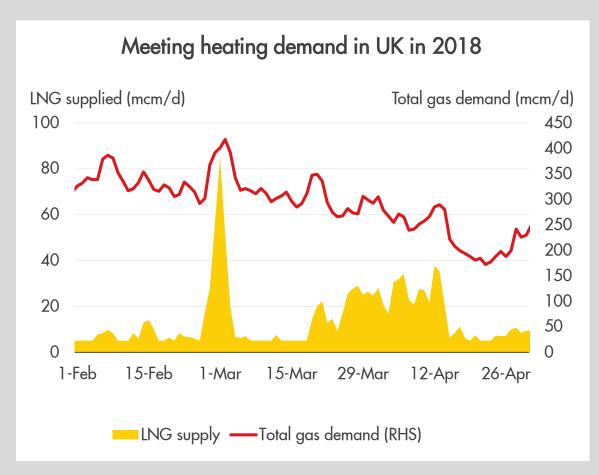
# Coal-to-gas switching in China achieves blue skies and reduces CO<sub>2</sub> emissions

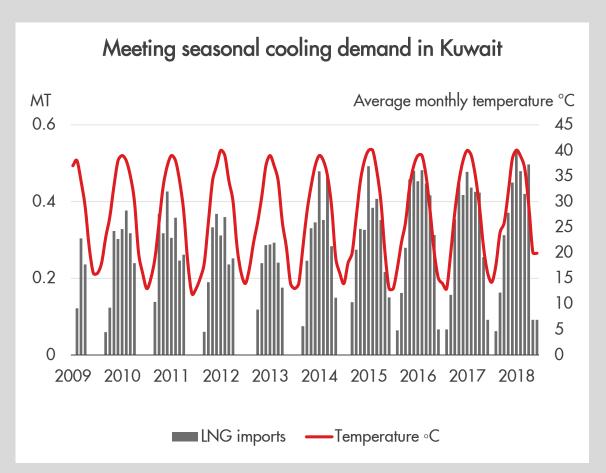




Source: Shell interpretation of IHS Markit, Beijing Gas Group and US Embassy Beijing (US State Department) 2018 data

#### LNG flexibility mitigates demand shocks and meets seasonal needs





Source: Shell interpretation of National Grid, IHS Markit, Weather Channel 2018 data

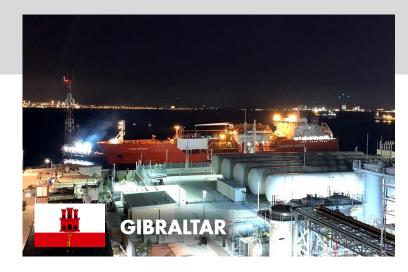
#### New countries choosing LNG for various benefits



- Natural gas meets over half of total energy demand
- Declining domestic gas production
- LNG meeting existing and new gas demand



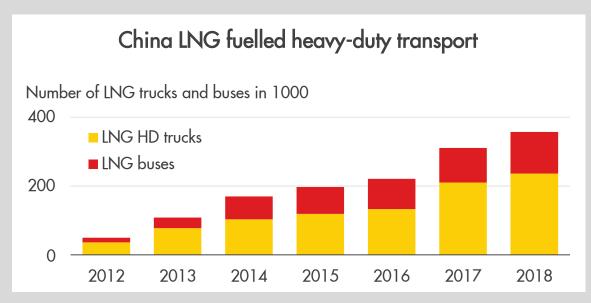
- Replacing oil-fired power generation
- Complement renewable power generation
- Strategic location of Panama Canal offers opportunities for LNG bunkering

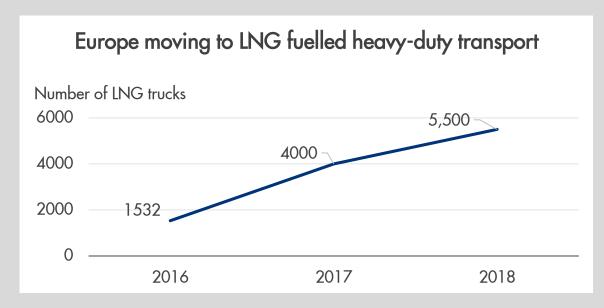


- Replacing oil-fired power generation
- Innovative small-scale LNG solution
- Increases diversity of supply

Source: Shell interpretation of Woodmac Q4 2018 Data

# Economic and environmental benefits increasing the use of LNG in road transport





Source: Shell analysis of Woodmac, SCI, and NGVA data





6.7 MT of LNG consumed in China for road transport in 2018



2,552 LNG fuel stations in 2018





280,000 LNG trucks expected by 2030

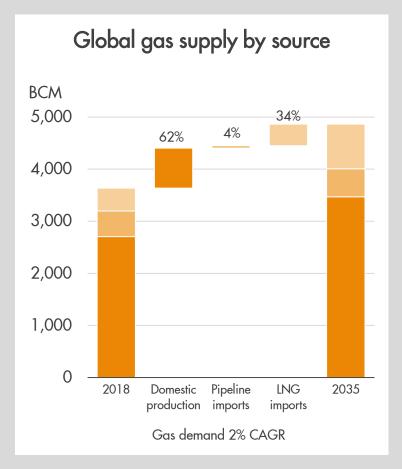


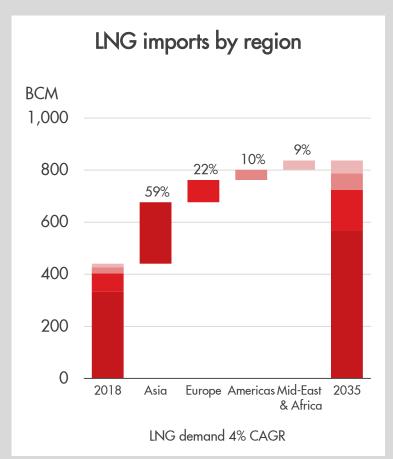
155 LNG fuel stations in 2018

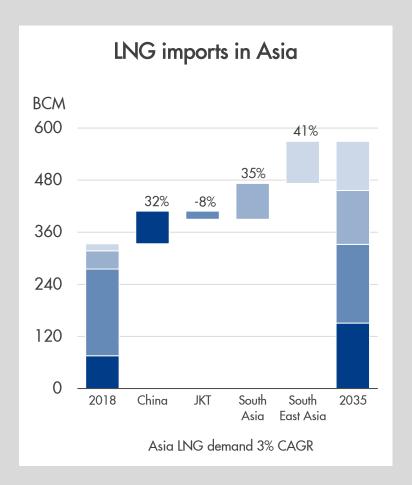


Co-financed by EU, BioLNG EuroNet is building 39 LNG stations, 2000 LNG trucks and a BioLNG production plant

#### LNG continues to be the fastest-growing gas supply source





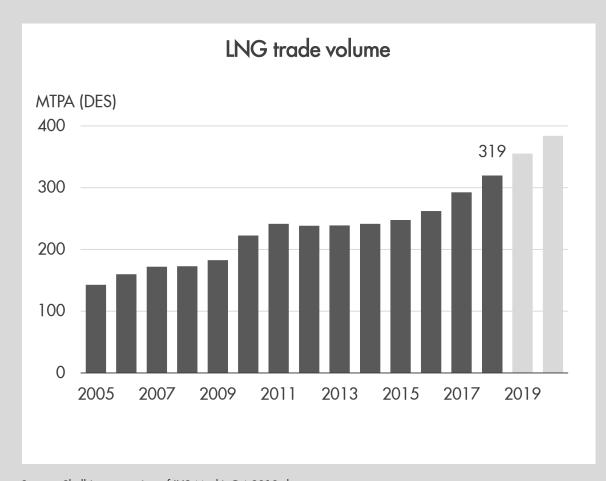


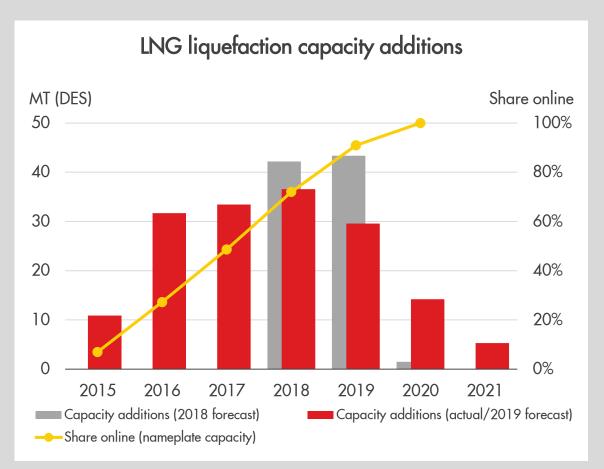
Source: Shell interpretation of Wood Mackenzie Q4 2018 data



Asian LNG imports exceed expectations again in 2018 absorbing continued supply growth

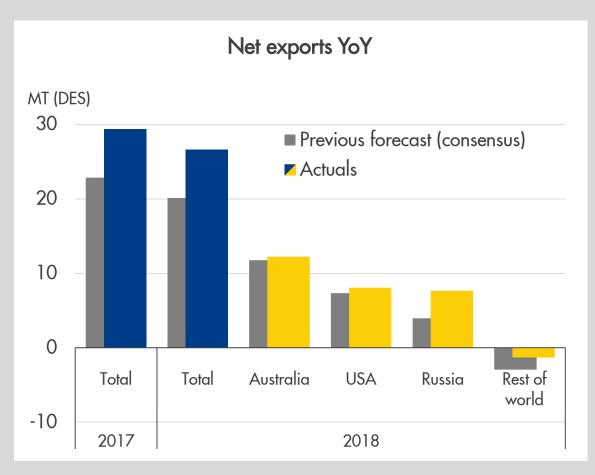
#### More than 70% of the current wave of LNG capacity additions online

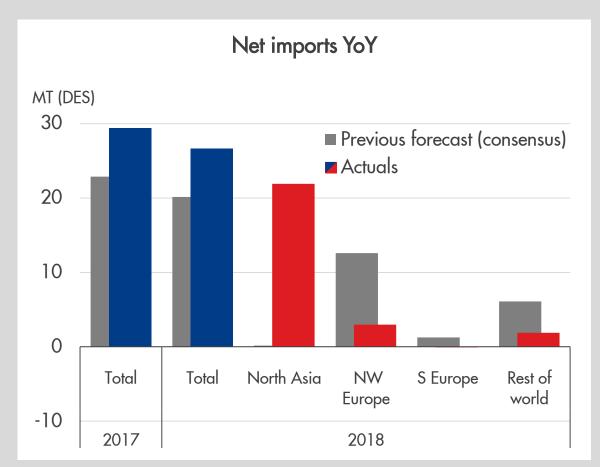




Source: Shell interpretation of IHS Markit Q4 2018 data

#### Asian LNG demand continues to exceed expectations

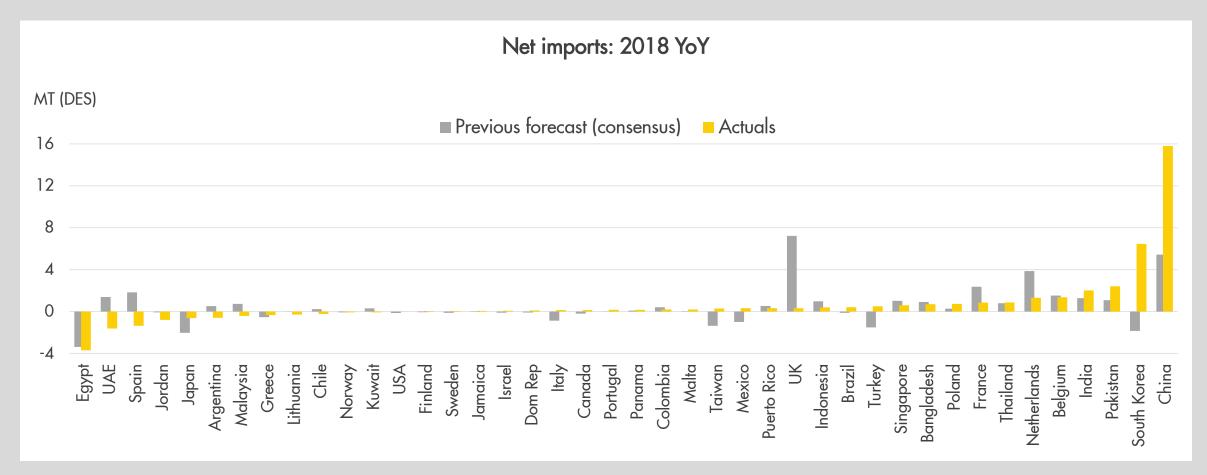




Source: Shell interpretation of IHS Markit, Wood Mackenzie and Poten & Partners 2017 and Q4 2018 data

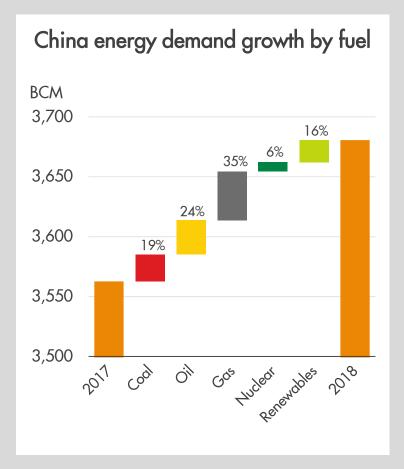
YoY: Year on Year

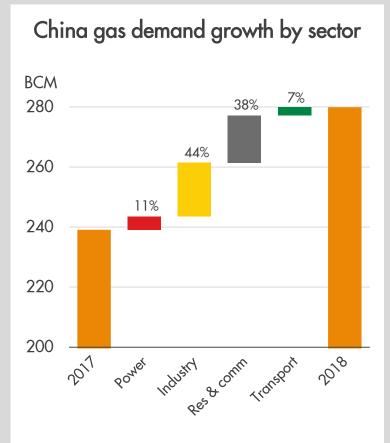
#### LNG imports increased by 27 MT in 2018

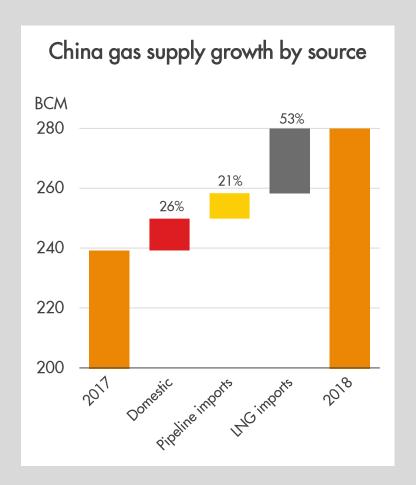


Source: Shell interpretation of IHS Markit, Wood Mackenzie and Poten & Partners 2017 and Q4 2018 data

# LNG imports continued to enable China to meet its growing need for cleaner energy

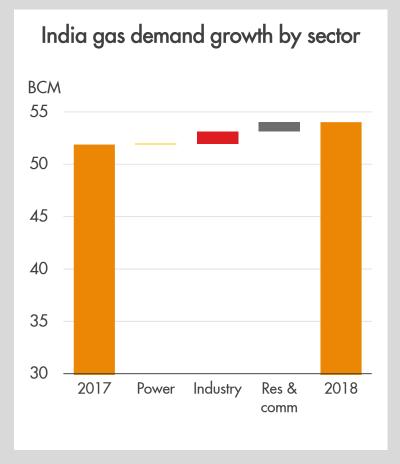


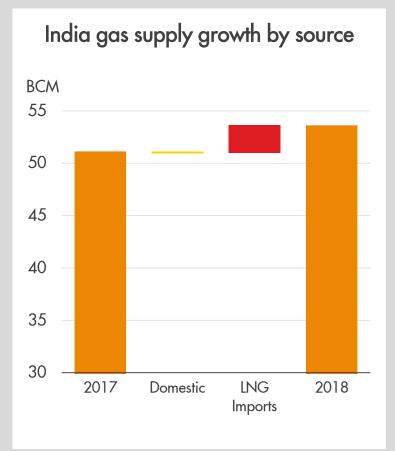


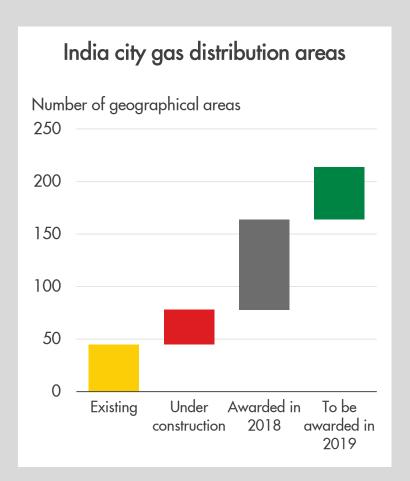


Source: Shell interpretation of IHS Markit Q4 2018 data

#### LNG provides energy security for India

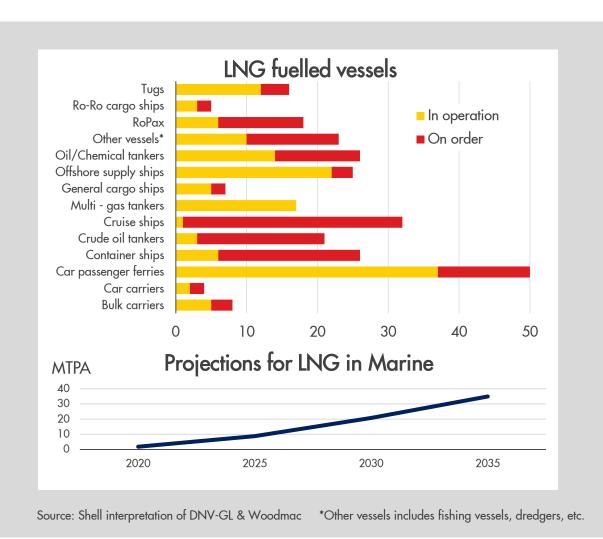




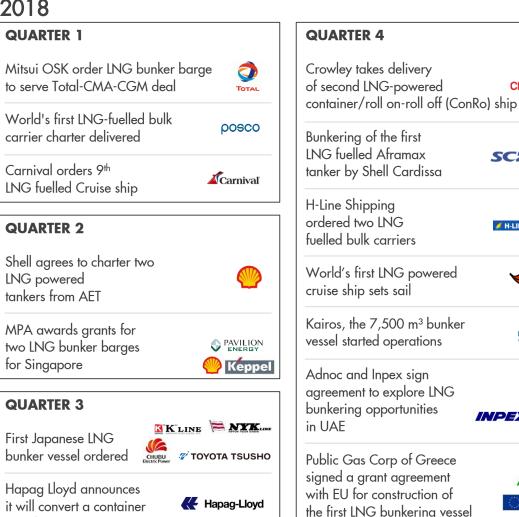


Source: Shell interpretation of PPAC and PNGRB Q4 2018 data

#### Marine LNG poised for growth



2018



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SCF

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**S**AIDA

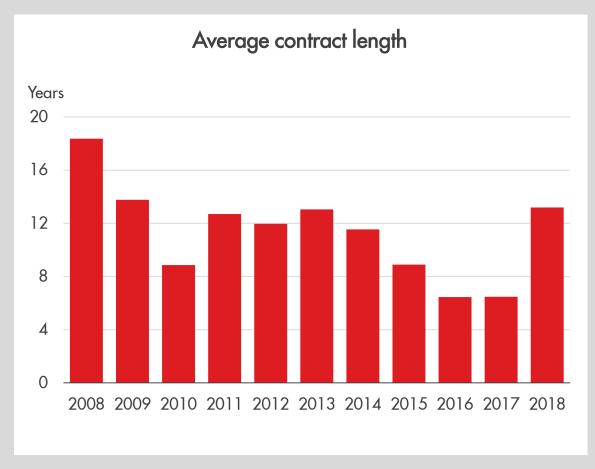
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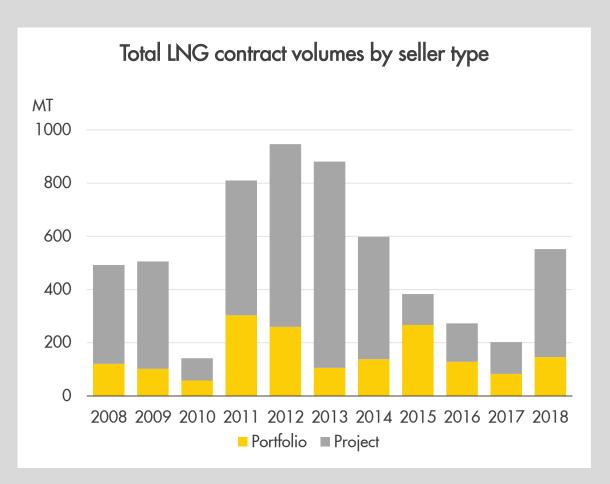
INEA

Royal Dutch Shell 21

vessel to operate on LNG

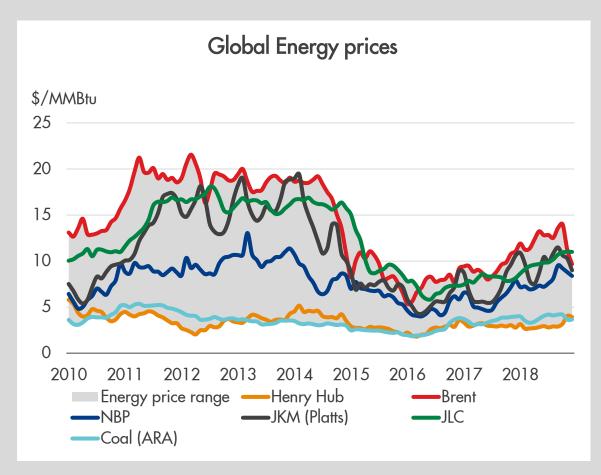
#### Resurgence of longer term contracts supports new supply projects

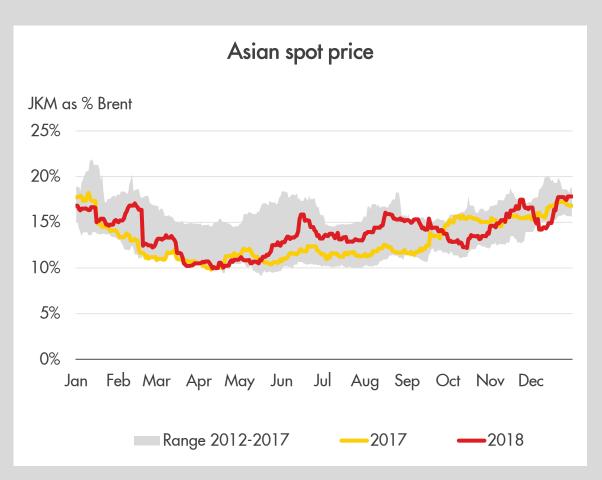




Source: Shell interpretation of IHS Markit Q4 2018 data

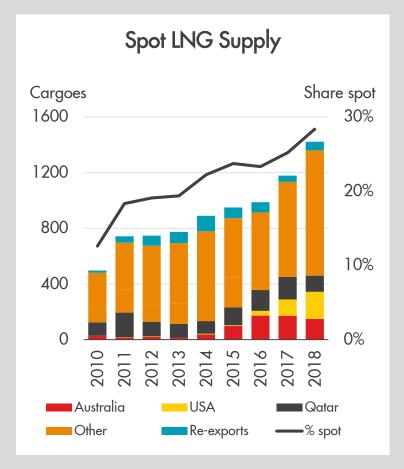
#### Spot prices remained robust

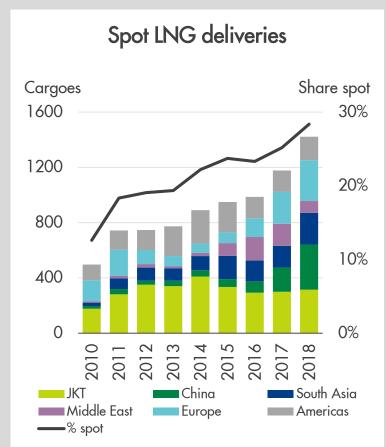


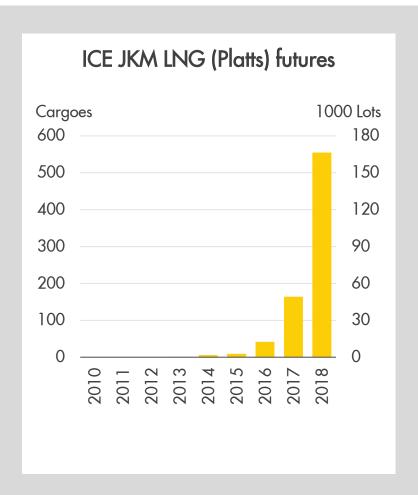


Source: Shell interpretation of Japanese customs data (Japan LNG import), S&P Global Platts (JKM), ICE (NBP, Brent, ARA coal), NYMEX (Henry Hub)

#### Spot market gains momentum with volume growth

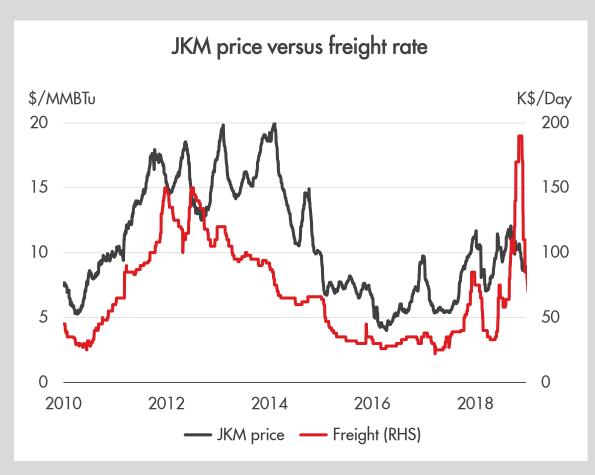


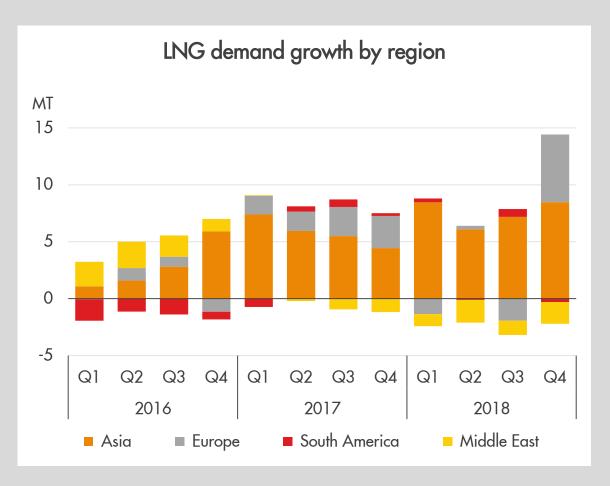




Source: Shell interpretation of IHS Markit Q4 2018, S&P Global Platts and the ICE data

#### An evolving global LNG market



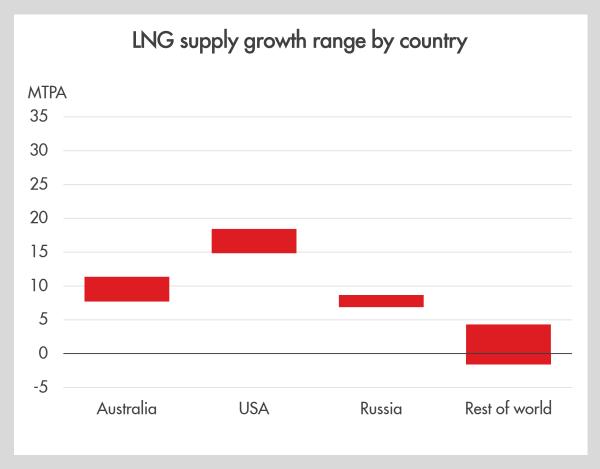


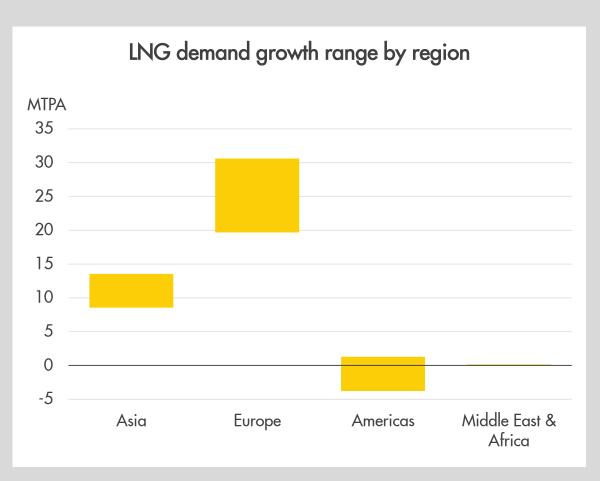
Source: Shell interpretation of S&P Global Platts data and IHS Markit Q4 2018 data



Near term supply growth expected to be absorbed by Europe and Asia – continued need for investment in supply to meet long-term demand growth

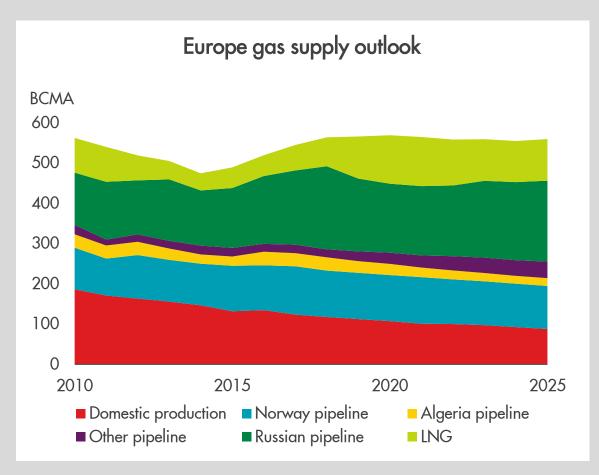
## New supply expected to be absorbed by Asia as well as Europe in 2019

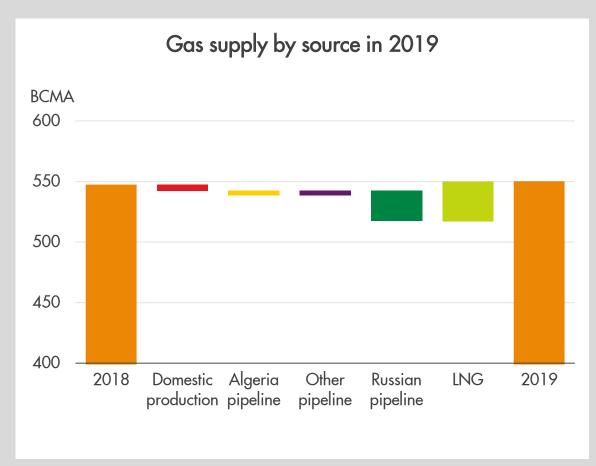




Source: Shell interpretation of IHS Markit, Wood Mackenzie, Poten & Partners Q4 2018 data

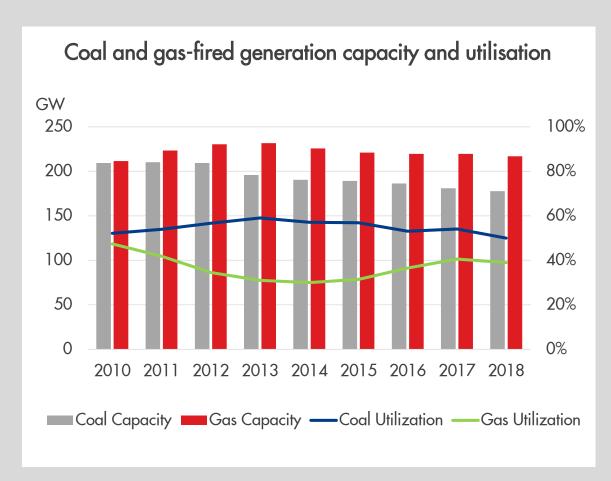
# Europe needs more imports to offset declining domestic gas production

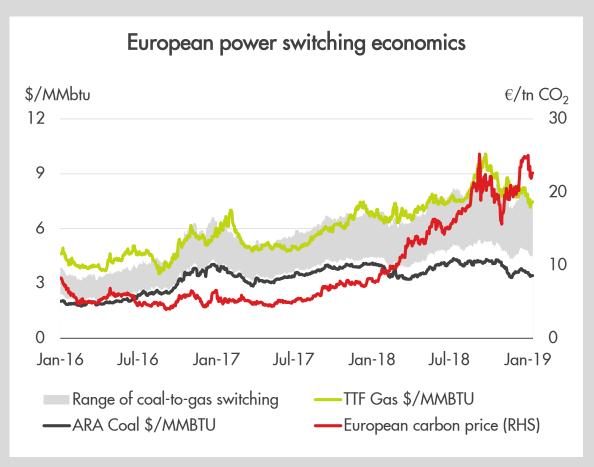




Source: Shell interpretation of IHS Markit Q4 2018 data

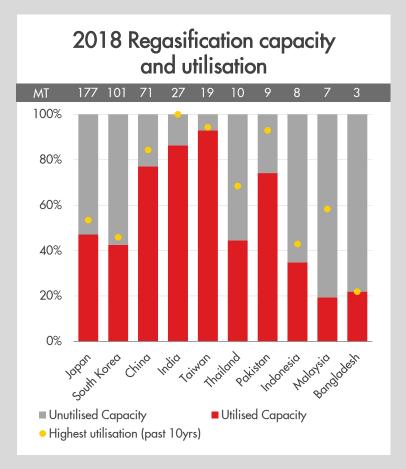
#### European power sector is also capable of absorbing more LNG

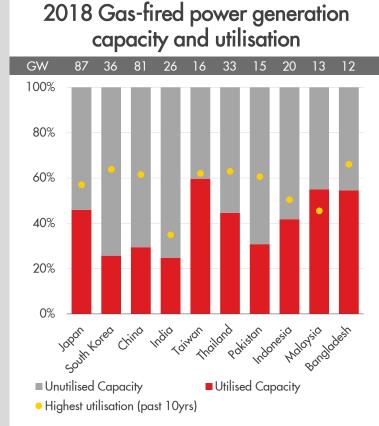


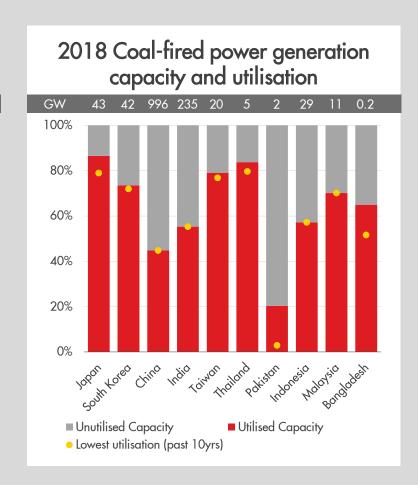


Source: Shell interpretation of IHS Markit Q4 2018 data

#### Asia has significant potential to take more LNG volumes

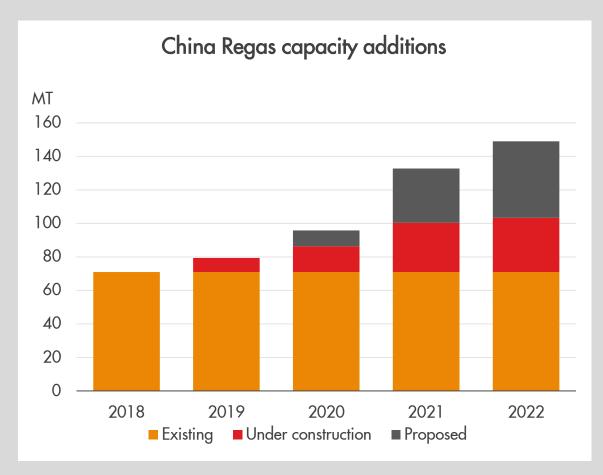


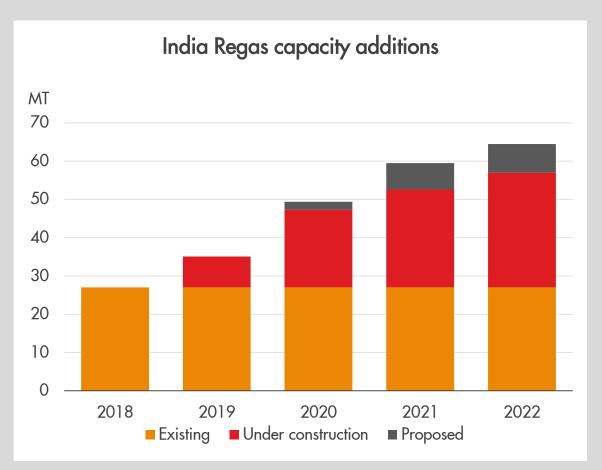




Source: Shell interpretation of IHS Markit and Wood Mackenzie Q4 2018 data

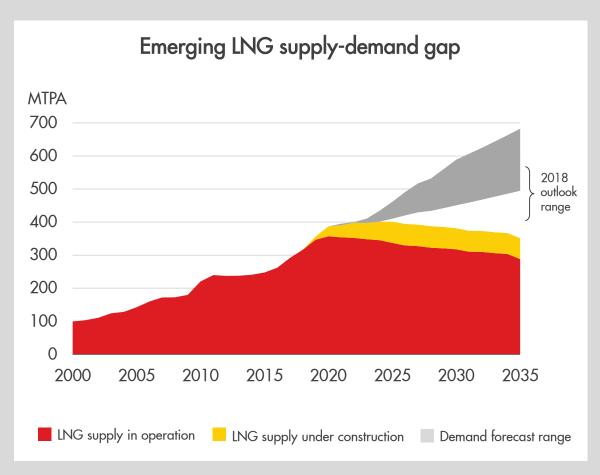
#### China and India can double import infrastructure in 5 years

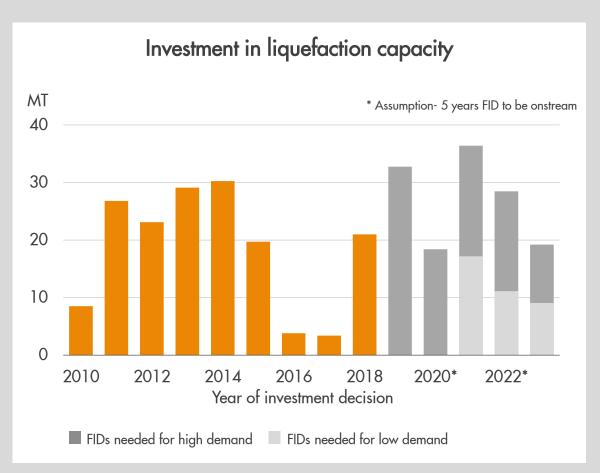




Source: Shell interpretation of IHS Markit Q4 2018 data

# Supply investment still needed to meet continued LNG demand growth





Source: Shell interpretation of IHS Markit, Wood Mackenzie, FGE and Poten & Partners Q4 2018 data



#### Growing recognition of the role of gas and LNG as the world tackles poor air quality and climate change

- Gas to supply the largest share of energy demand growth, supplying over 40% of additional demand by 2035
- Coal-to-gas switching led to 78% improvement in Beijing winter air quality over the last five years

### Asian LNG imports exceed expectations again in 2018 absorbing continued supply growth

- China became the world's largest gas importer, with LNG imports doubling over two years
- JKM futures trading volume increased ten-fold since 2016

#### Near term supply growth expected to be absorbed by Europe and Asia – continued need for investment in supply to meet long-term demand growth

- 35 MT additional supply expected in 2019
- 2018 saw final investment decisions on 21 MT of new capacity compared to a total of 7 MT in the last two years combined

