

# HUPX Group — Refinitiv Workshop Gas Session





# Recent gas market trends: turbulence and recovery

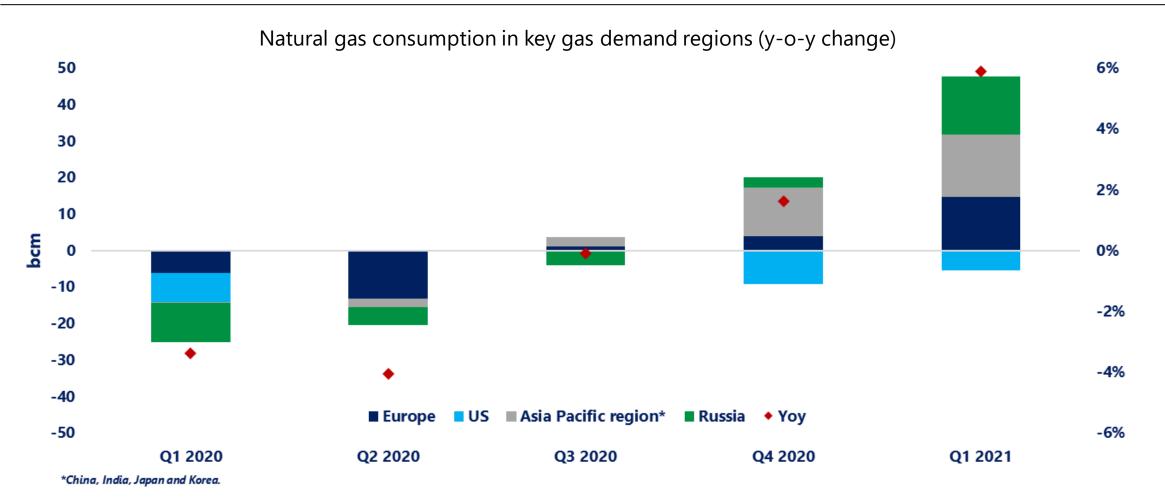
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### Global gas market dynamics



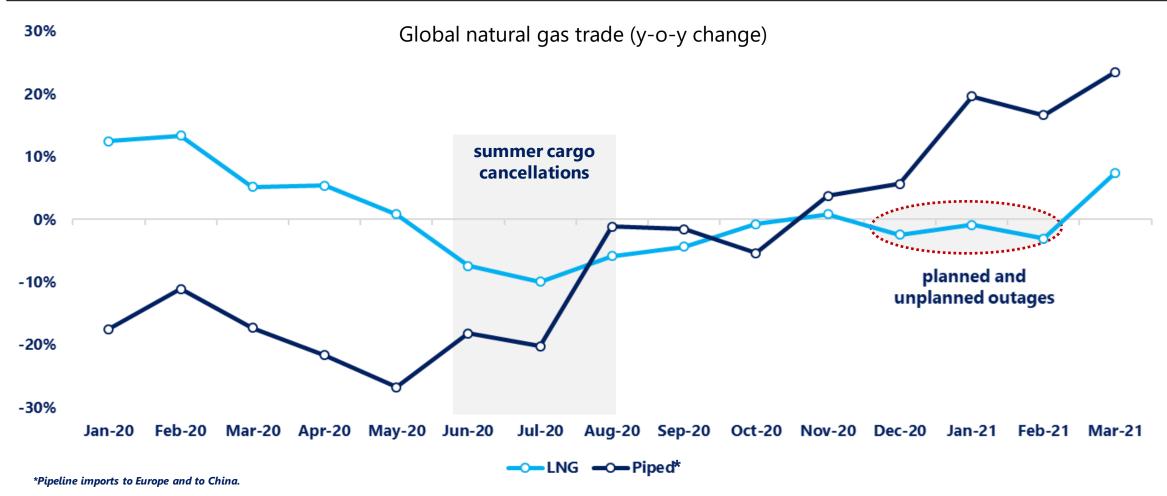
### Q1 2021: a strong start for gas demand



Northeast Asia and Europe are leading gas demand recovery in Q1 2020 supported by colder winter temperatures.



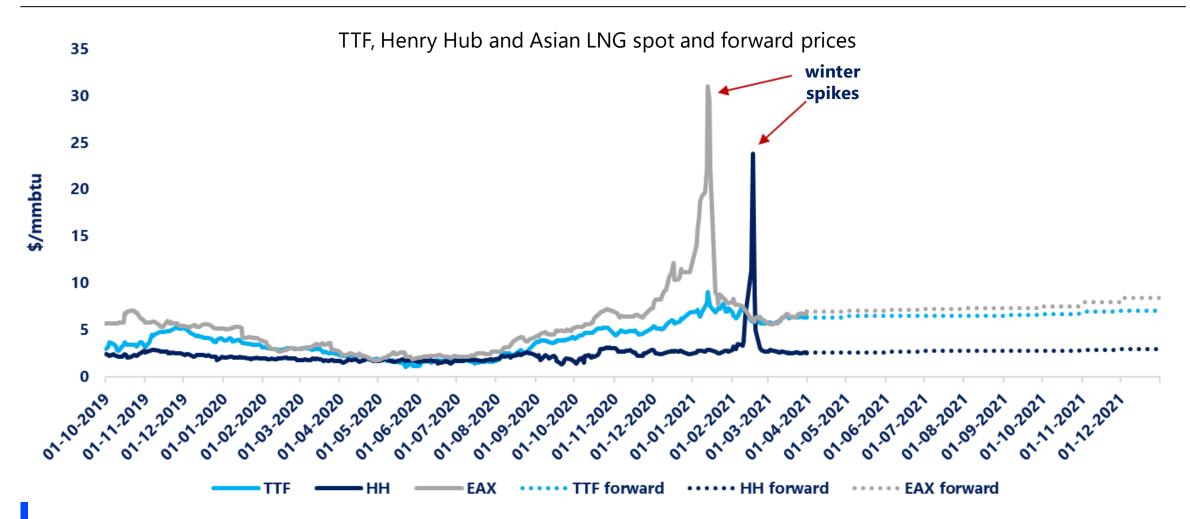
### Global gas trade: pipeline trade led the recovery



Ramp-up of supplies via new pipeline corridors and higher exports from Russia to Europe supported a strong recovery in long-distance gas pipeline trade.



### A winter of spikes: prices remained volatile



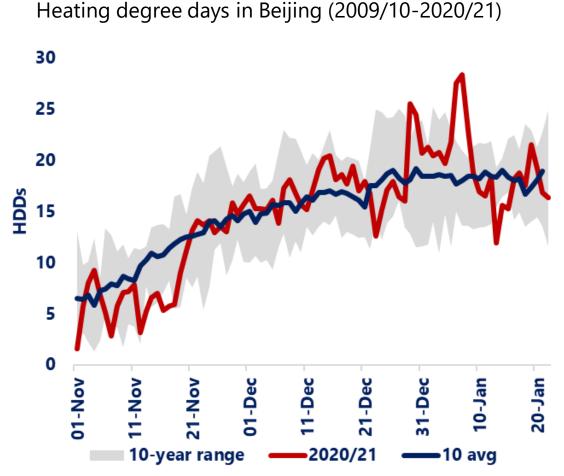
Spot prices in northeast Asia and the US climbed to record highs amidst sporadic cold spells.



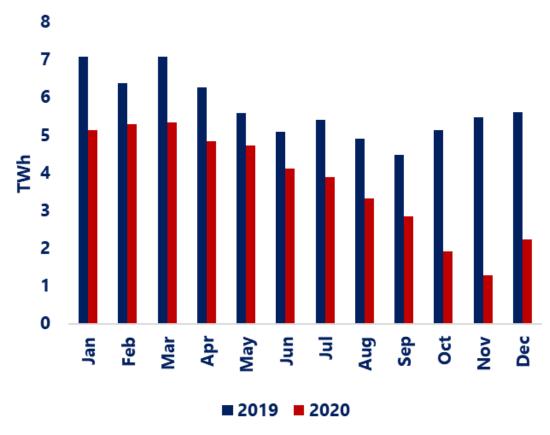
## Anatomy of a price spike



### Anatomy of a price spike: demand factors



Nuclear power generation in Japan (2019-20)

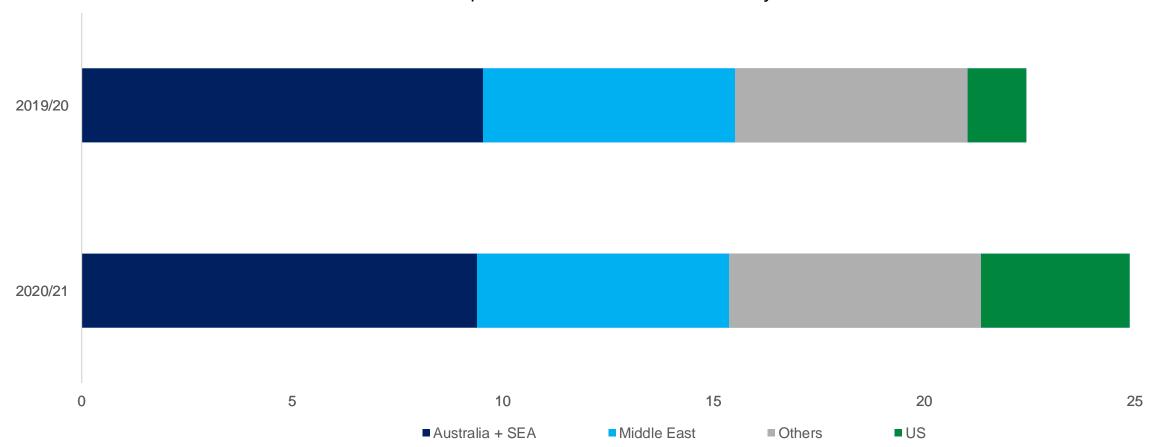


Colder winter temperatures, low nuclear availability in Japan and environmental limits imposed on coalfired power plants in Korea increased natural gas demand in northeast Asia.



### Anatomy of a price spike: supply factors

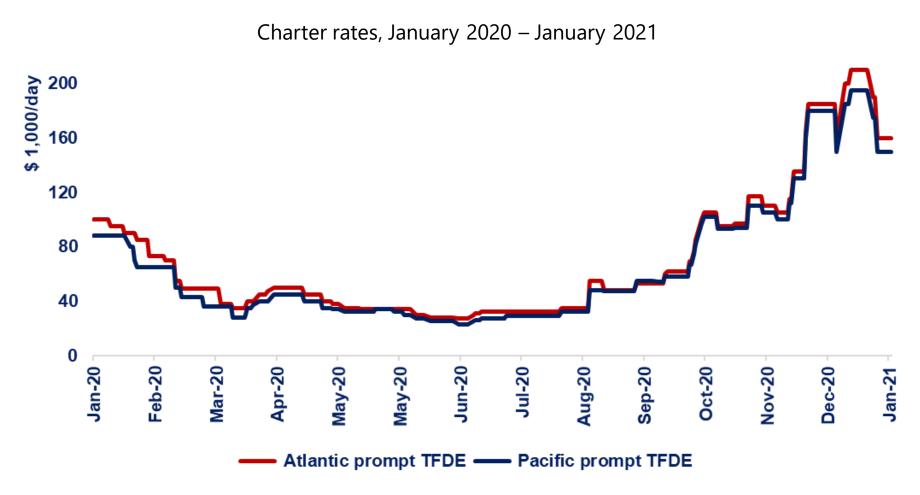




Northeast Asian LNG imports rose by over 10% between December and mid-January, with the incremental volumes supplied by the United States.



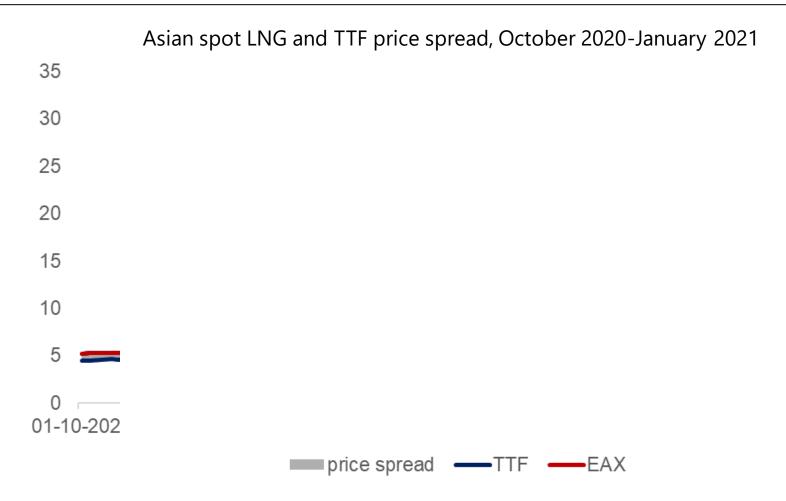
### Anatomy of a price spike: shipping factors



As a result of longer voyages and the Panama Canal congestion, spot charter rates climbed to historic highs of above USD 200,000/day.



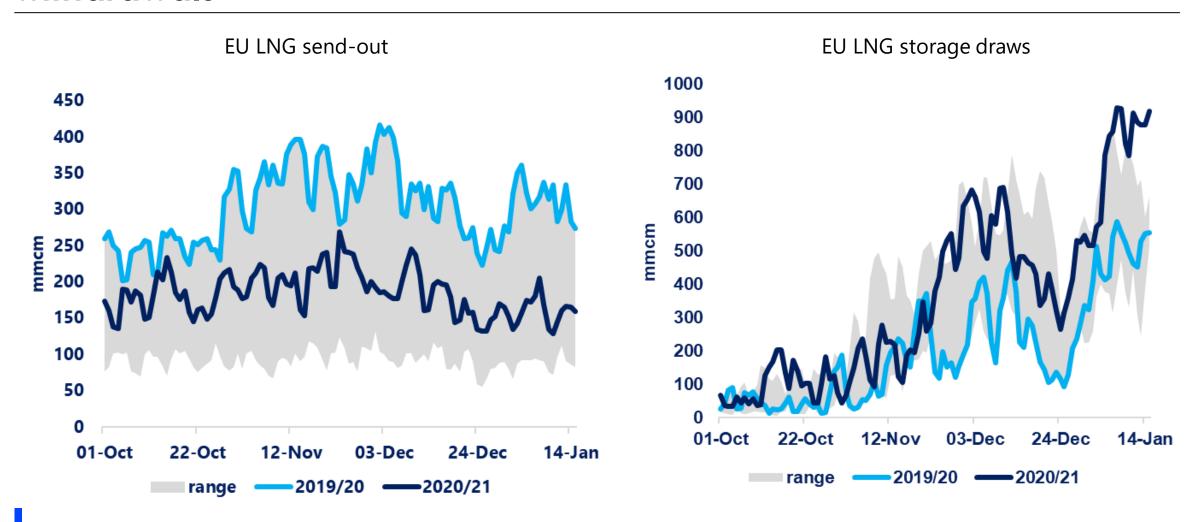
### The spread between TTF and Asian spot prices has widened...



The price spread between Asian LNG and European gas hubs rose to over USD 20/MBtu by mid-January.



# ...driving away LNG from Europe and prompting strong storage withdrawals



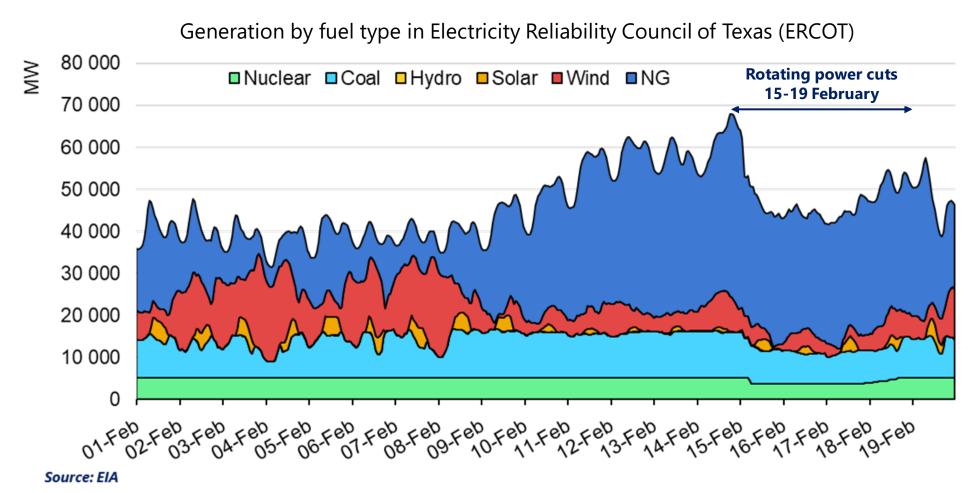
Europe played a key balancing role in the tight market conditions witnessed at the beginning of 2021.



## The "big freeze" in Texas



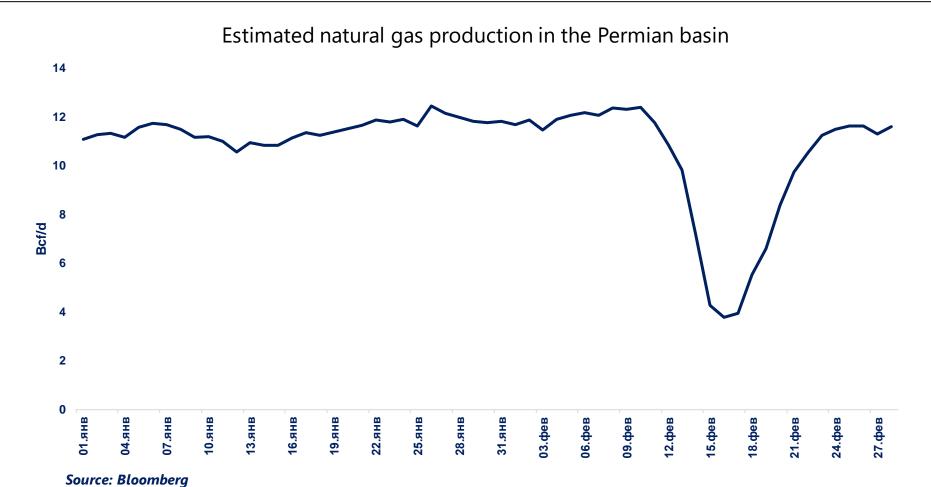
### Gas-fired power generation ramped-up amidst the cold spell...



Gas for power in ERCOT more than tripled between 6 and 15 February, before plummeting due to a combination of freezing components at power plants and lack of natural gas supply.



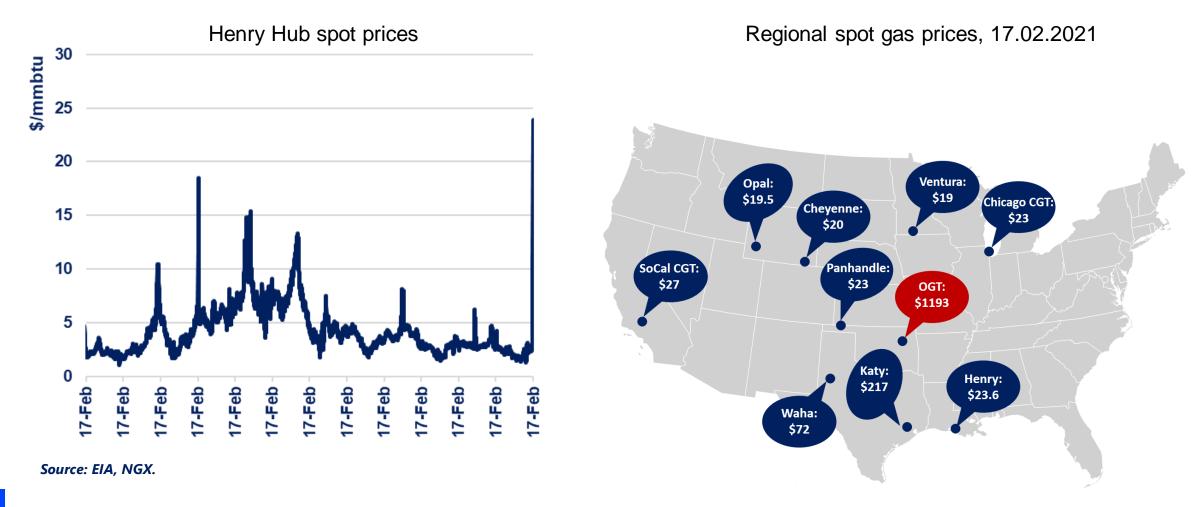
#### ...while wellhead freeze-offs led to a steep drop in gas output



Natural gas production in the shale basins supplying the Texan market plummeted due to a combination of wellhead freeze-offs and power cuts.



### Natural gas prices reached soared to record highs



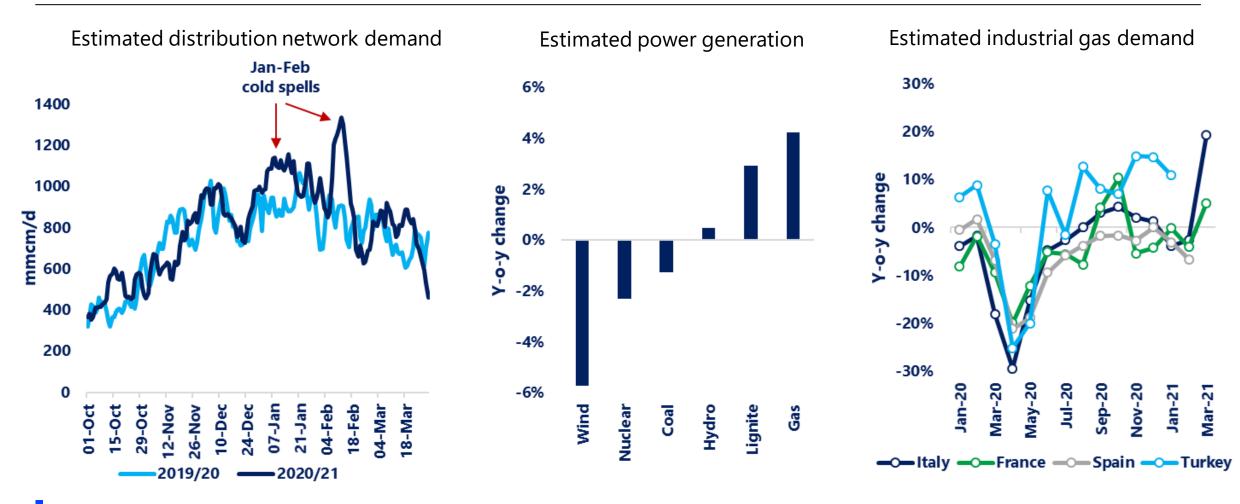
The short gas system led to a sharp increase in natural gas prices, climbing to historical records.



### Focus on Europe



# Turn the heat on: European gas demand grew by 5% over yoy through the heating season

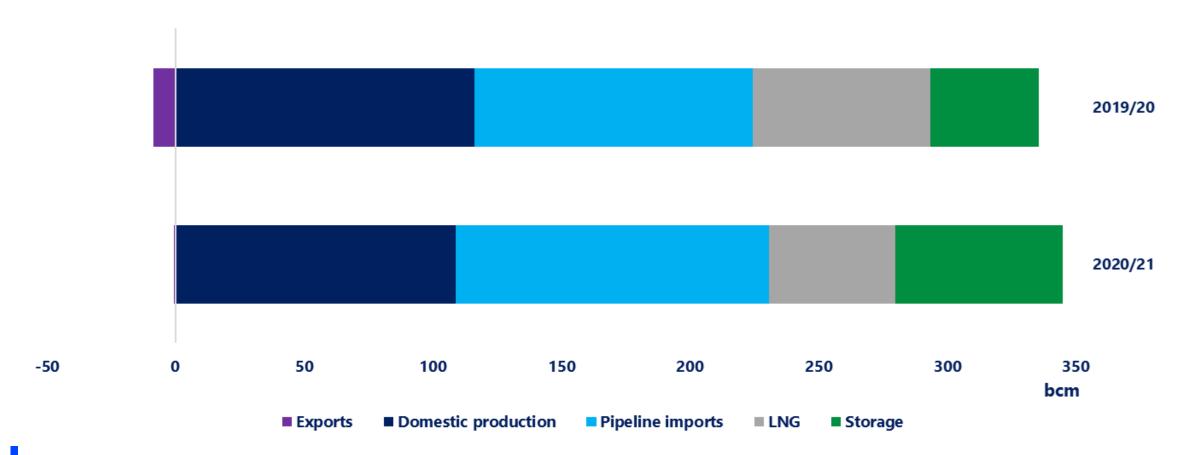


Colder winter temperatures and lower wind speeds provided support for gas demand through the heating season.



### European gas supply: lower LNG supply and higher storage draws

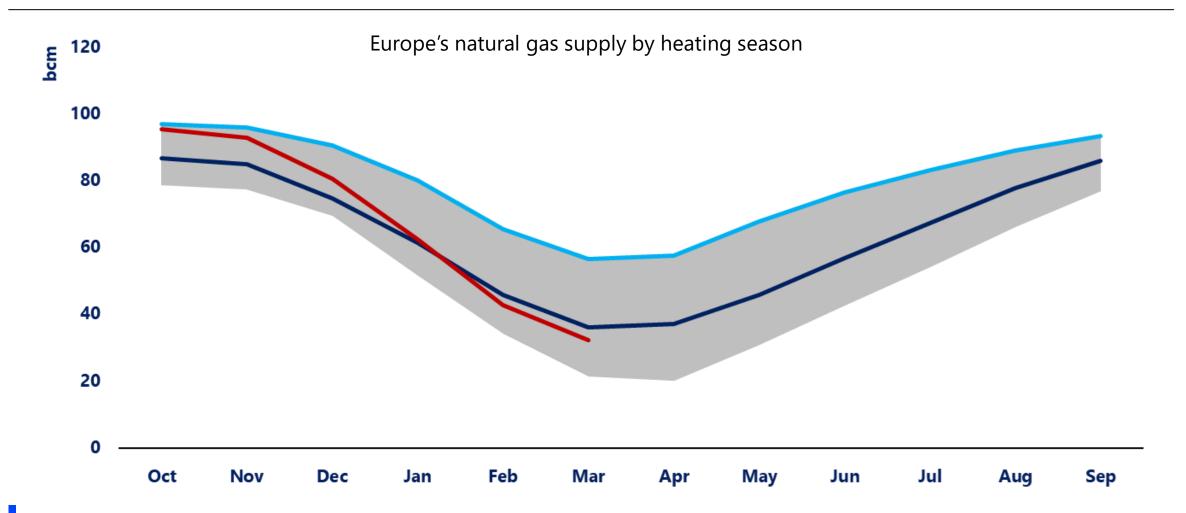




Lower LNG inflow was compensated by strong storage draws and the ramp-up of pipeline supplies.



### Driving European storage levels below 5-year average



Below than average underground storage levels indicate stronger injection needs through the summer.



#### **Conclusions**

- **Natural gas demand** opened 2021 with a **strong recovery** in Europe and northeast Asia, largely supported by colder winter temperatures.
- LNG exports remained below last year's levels due to a combination of commissioning delays and unplanned outages.
- **Prices were volatile**, with sporadic cold spells and underperforming supply driving spot prices in northeast Asia and the United States to record highs.
- Both European and US gas storage levels are expected to close the heating season below their 5year average levels, indicating higher injection demand for the summer 2021.
- Forward curves suggest **tight Asian spot LNG-TTF price spreads over the summer**, potentially leading to a recovery in LNG supplies into Europe.



