# Gas Report –Q2 2024 & Northwest European Hydrogen Monitor

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#### IEA Gas Report –Q2 2024 & Northwest European Hydrogen Monitor

Gas Market Report, Q2-2024

Including Global Gas Review 2023



Northwest European Hydrogen Monitor 2024



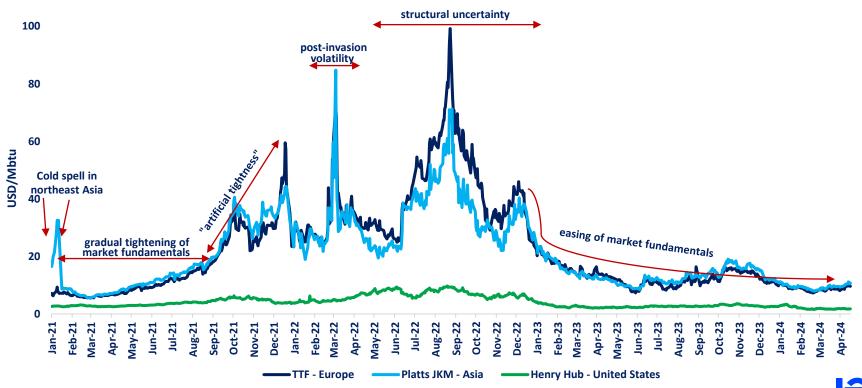
https://www.iea.org/reports/gasmarket-report-q2-2024 https://www.iea.org/reports/north
west-european-hydrogenmonitor-2024

## Recent gas market trends and global outlook



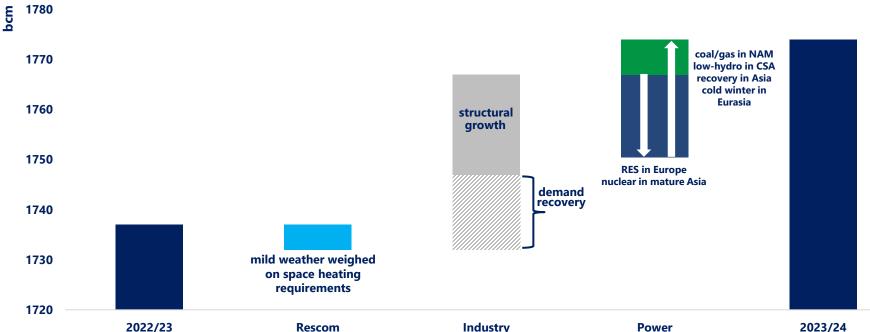
#### Gas prices fell below their pre-crisis levels in Q1 2024

Evolution of key regional natural gas prices, 2021 – 2024



#### Mild weather limited gas demand growth over 2023/24 winter

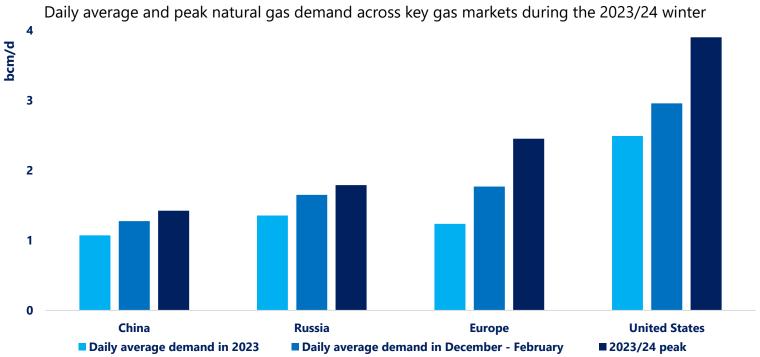
Estimated year-on-year change in natural gas demand in selected markets\* over the 2023/24 heating season



Natural gas demand grew by 2% through the 2023/24 winter. While unseasonably mild weather weighed on space heating, demand growth was largely driven by higher gas use in the power and industrial sectors.



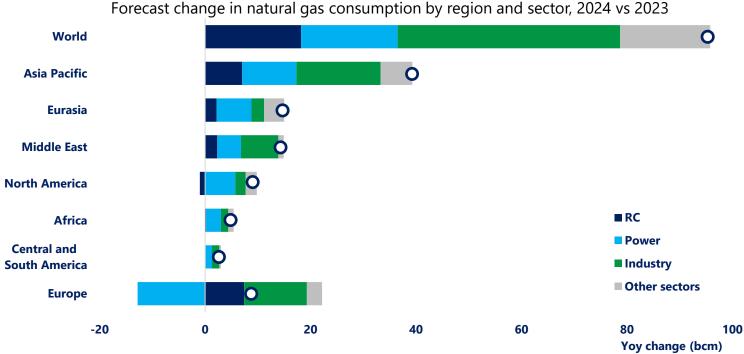
#### A winter of peaks: the need for gas supply flexibility



Despite being an unusually mild winter on average, the 2023/24 heating season witnessed several cold spells, which resulted in record-breaking demand spikes across key markets in the Northern Hemisphere.



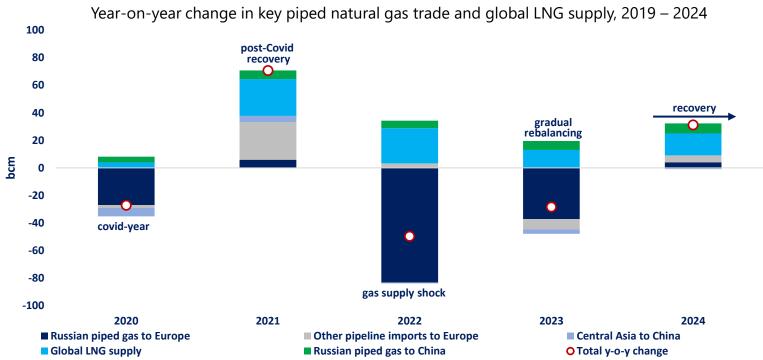
#### Industry is expected to drive demand growth in 2024



Global gas demand is forecast to increase by 2.3% in 2024, with growth primarily concentrated in fast-growing Asian markets. Industry is expected to account for 45% of incremental gas demand in 2024.



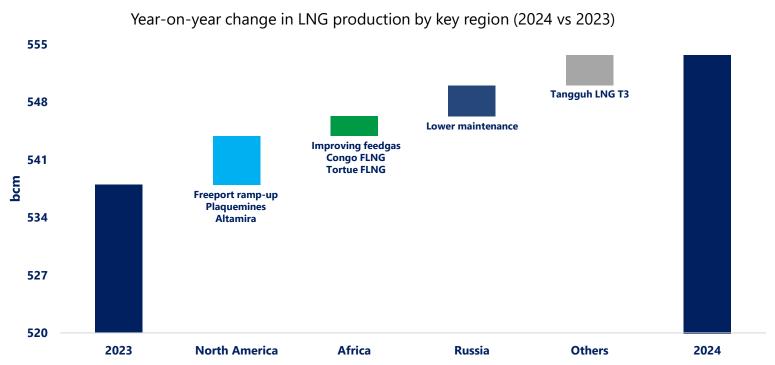
#### Global gas trade is moving towards a gradual recovery...



After two years of tightening, global gas trade is expected to expand in 2024, enabling stronger demand growth in key Asian and European import markets.



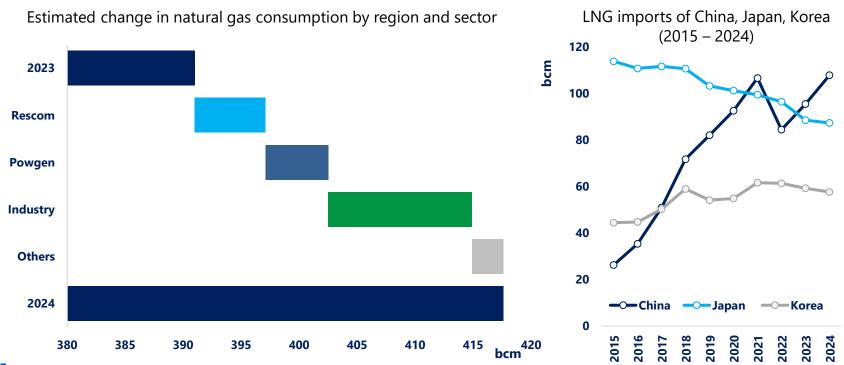
#### ...although LNG supply growth is expected to remain limited



Global LNG supply is set to increase by a mere 3% in 2024 –well-below the 8% growth rate experienced between 2016-20. Incremental supply is primarily driven by the US, Africa, Indonesia and Russia.



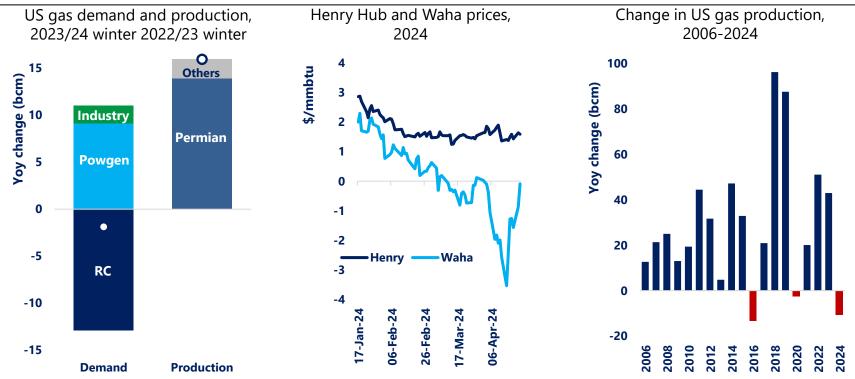
#### Year of the Dragon: China is back with full strength



China's gas demand is forecast to grow by 7% in 2024, with all sectors maintaining strong momentum. Demand growth is expected to drive-up China's LNG imports just above their 2021 record levels.



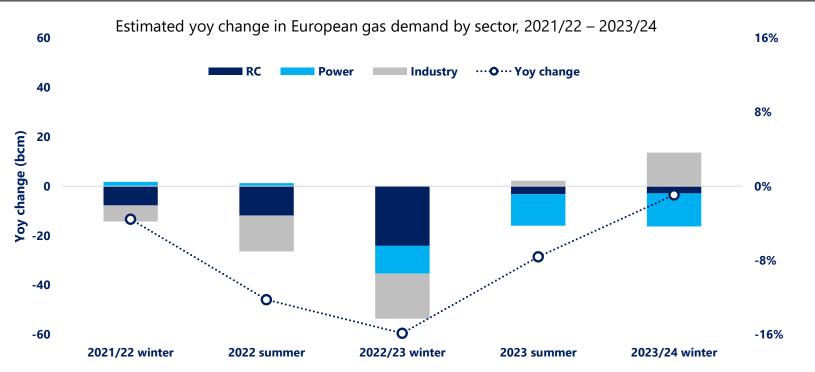
#### Drill or not to drill: US producers are facing an oversupplied market



A mild winter and strong production growth in the Permian depressed US gas prices to multi-decade lows. High storage levels with moderate feedgas demand growth could drive down US gas production in 2024.



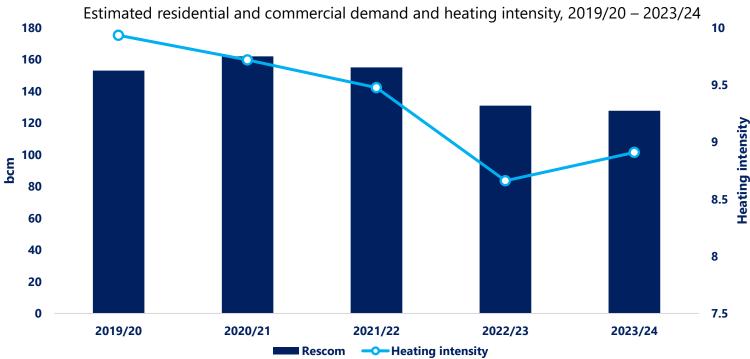
#### Blow it away: RES and mild winter depressed European gas demand



European gas demand declined marginally over the 2023/24 winter. The strong expansion of renewables and mild weather weighed on gas consumption –with losses partly offset by higher gas use in industry.



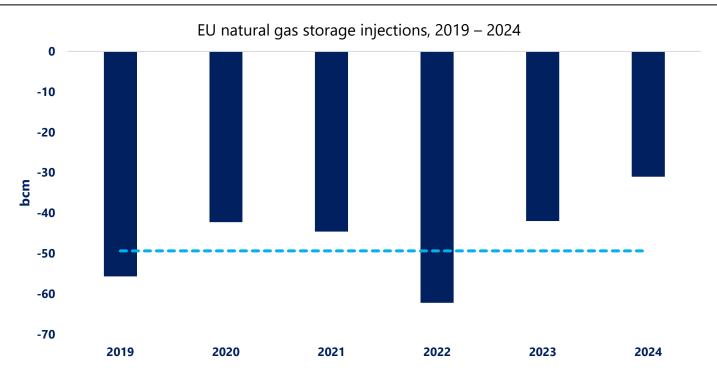
#### Heating intensity in Europe increased over the 2023/24 winter



Heating intensity in the European rescom sectors increased marginally compared to the 2022/23 winter. This could indicate that the gas-saving measures of the previous two heating seasons are wearing off.



#### Record high European stocks mean lower injection needs



Storage injections 35% below their 5y average would suffice to reach the EU's 90% fill target by the start of the 2024/25 heating season. Lower injections could contribute to a further easing of market fundamentals.



#### Geopolitics present greatest short-term risk for gas markets

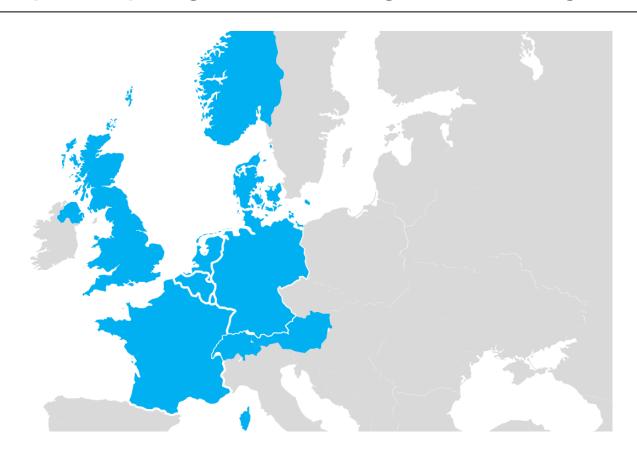




### Northwest European Hydrogen Monitor



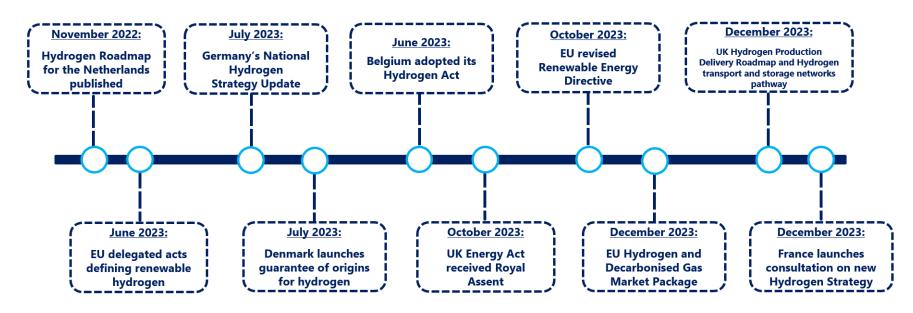
#### Northwest European Hydrogen Monitor: regional coverage





#### Hydrogen policies and regulations continued to shape up in 2023

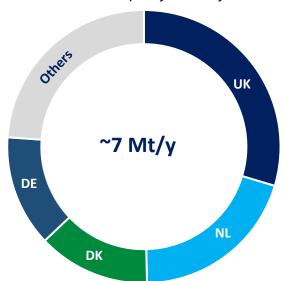
Key hydrogen policies and regulations enacted in the European Union and Northwest Europe since November 2022



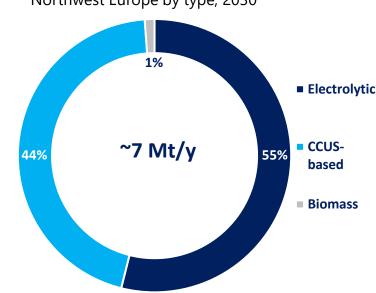


#### Low-emissions hydrogen production could reach 7 Mt/y by 2030...

Potential low-emissions hydrogen supply in Northwest Europe by country, 2030



Potential low-emissions hydrogen supply in Northwest Europe by type, 2030



The UK, the Netherlands, Denmark and Germany could contribute for three-quarters of Northwest Europe's low-emissions hydrogen production by 2030, with electrolytic hydrogen accounting for 55%.



#### ...less than 4% of projects are in advanced stage of development

Potential low-emissions hydrogen production in Northwest Europe in 2030, by status

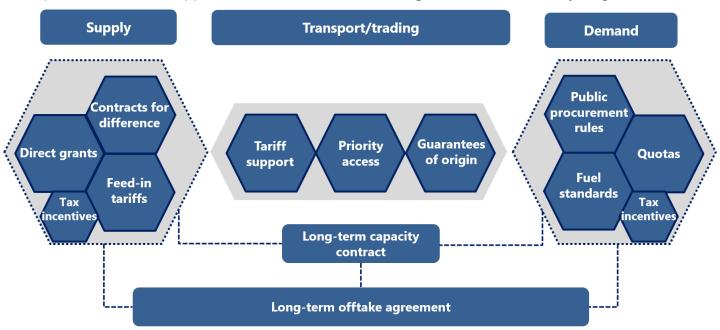


More than 95% of the projects that could provide low-emissions hydrogen supply by 2030 are either undergoing feasibility studies or are in concept phase.



#### A holistic approach is required to support mechanisms

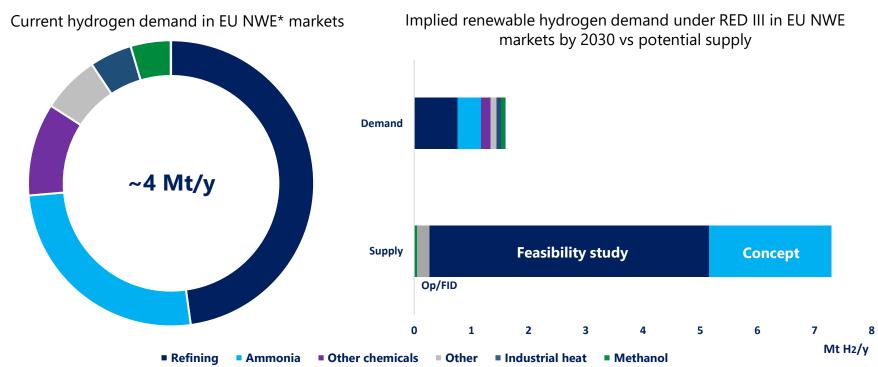
Simplified scheme of support mechanisms available along the low-emissions hydrogen value chain



The development of a low-emissions hydrogen market will require a holistic approach to support mechanisms along the entire value chain, ranging from production to end uses.



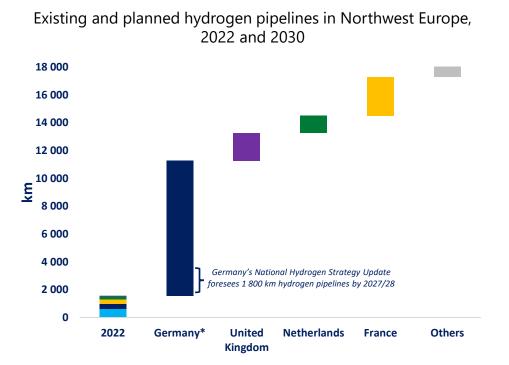
#### Demand security will be crucial to scale-up the hydrogen market

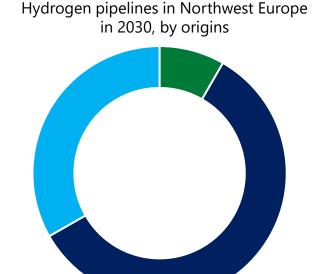


Low-emissions hydrogen projects in China and the United States have a greater level of maturity, with many of them have already taken FID and/or being under construction.



#### Hydrogen networks could reach over 18 000 km by 2030





Repurposed

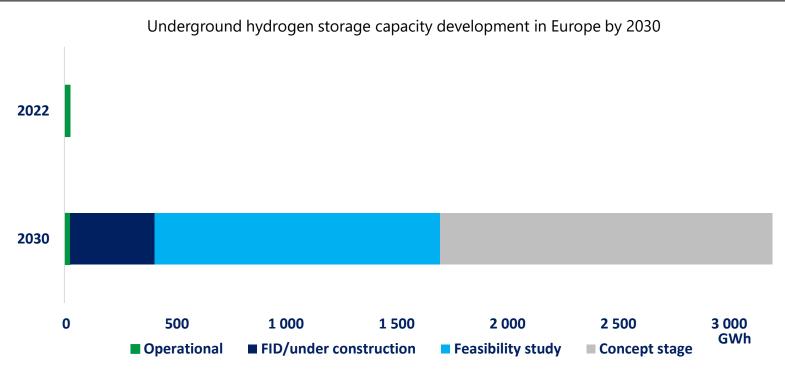
New-build

Existing

Based on the current targets set by northwest European countries, the region's hydrogen network could increase by tenfold to over 18 000 km by 2030.



#### Hydrogen storage project developments are lagging behind



Over 3 TWh of hydrogen storage projects were announced in Europe, with most of them are either at the conceptual phase or undergoing feasibility studies.



