

Cautionary note



The companies in which Shell plc directly and indirectly owns investments are separate legal entities. In this LNG Outlook "Shell", "Shell Group" and "Group" are sometimes used for convenience where references are made to Shell plc and its subsidiaries in general. Likewise, the words "we", "us" and "our" are also used to refer to Shell plc and its subsidiaries in general or to those who work for them. These terms are also used where no useful purpose is served by identifying the particular entity or entities. "Subsidiaries", "Shell subsidiaries" and "Shell companies" as used in this LNG Outlook refer to entities over which Shell plc either directly or indirectly has control. Entities and unincorporated arrangements over which Shell has joint control are generally referred to as "joint ventures" and "joint operations", respectively. "Joint ventures" and "joint operations" are collectively referred to as "joint arrangements". Entities over which Shell has significant influence but neither control nor joint control are referred to as "associates". The term "Shell interest" is used for convenience to indicate the direct and/or indirect ownership interest held by Shell in an entity or unincorporated joint arrangement, after exclusion of all third-party interest.

Forward-Looking Statements

This LNG Outlook contains forward-looking statements (within the meaning of the U.S. Private Securities Litigation Reform Act of 1995) concerning the financial condition, results of operations and businesses of Shell. All statements other than statements of historical fact are, or may be deemed to be, forward-looking statements. Forward-looking statements are statements of future expectations that are based on management's current expectations and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in these statements. Forward-looking statements include, among other things, statements concerning the potential exposure of Shell to market risks and statements expressing management's expectations, beliefs, estimates, forecasts, projections and assumptions. These forward-looking statements are identified by their use of terms and phrases such as "aim", "ambition", "anticipate", "believe", "could", "estimate", "expect", "aoals", "intend", "may", "milestones", "objectives", "outlook", "plan", "probably", "project", "risks", "schedule", "seek", "should", "target", "will" and similar terms and phrases. There are a number of factors that could affect the future operations of Shell and could cause those results to differ materially from those expressed in the forward-looking statements included in this Outlook, including (without limitation); (a) price fluctuations in crude oil and natural gas; (b) changes in demand for Shell's products; (c) currency fluctuations; (d) drilling and production results; (e) reserves estimates; (f) loss of market share and industry competition; (g) environmental and physical risks; (h) risks associated with the identification of suitable potential acquisition properties and targets, and successful negotiation and completion of such transactions: (i) the risk of doing business in developing countries and countries subject to international sanctions; (j) legislative, judicial, fiscal and regulatory developments including regulatory measures addressing climate change; (k) economic and financial market conditions in various countries and regions; (I) political risks, including the risks of expropriation and renegotiation of the terms of contracts with governmental entities, delays or advancements in the approval of projects and delays in the reimbursement for shared costs; (m) risks associated with the impact of pandemics, such as the COVID-19 (coronavirus) outbreak, regional conflicts, such as Russia's invasion of Ukraine, and a significant cybersecurity breach; and (n) changes in trading conditions. No assurance is provided that future dividend payments will match or exceed previous dividend payments. All forward-looking statements contained in this LNG Outlook are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. Readers should not place undue reliance on forward-looking statements. Additional risk factors that may affect future results are contained in Shell plac's Form 20-F for the year ended December 31, 2022 (available at www.shell.com/investors/news-and-filings/sec-filings.html and www.sec.gov). These risk factors also expressly qualify all forwardlooking statements contained in this Outlook and should be considered by the reader. Each forward-looking statement speaks only as of the date of this Outlook, February 14, 2024. Neither Shell plc nor any of its subsidiaries undertake any obligation to publicly update or revise any forwardlooking statement as a result of new information, future events or other information. In light of these risks, results could differ materially from those stated, implied or inferred from the forward-looking statements contained in this LNG Outlook.

Shell's net carbon intensity

Also, in this LNG Outlook we may refer to Shell's "Net Carbon Intensity", which includes Shell's carbon emissions from the production of our energy products, our suppliers' carbon emissions in supplying energy for that production and our customers' carbon emissions associated with their use of the energy products we sell. Shell only controls its own emissions. The use of the term Shell's "Net Carbon Intensity" is for convenience only and not intended to suggest these emissions are those of Shell plc or its subsidiaries.

Shell's net-Zero Emissions Target

Shell's operating plan, outlook and budgets are forecasted for a ten-year period and are updated every year. They reflect the current economic environment and what we can reasonably expect to see over the next ten years. Accordingly, they reflect our Scope 1, Scope 2 and Net Carbon Intensity (NCI) targets over the next ten years. However, Shell's operating plans cannot reflect our 2050 net-zero emissions target and 2035 NCI target, as these targets are currently outside our planning period. In the future, as society moves towards net-zero emissions, we expect Shell's operating plans to reflect this movement. However, if society is not net zero in 2050, as of today, there would be significant risk that Shell may not meet this target.

Shell expects to publish its 2024 Energy Transition Strategy on March 14, 2024, which will include an update on Shell's energy transition strategy and set out Shell's climate targets and ambitions for the future.

Forward Looking Non-GAAP measures

This LNG Outlook may contain certain forward-looking non-GAAP measures such as [cash capital expenditure] and [divestments]. We are unable to provide a reconciliation of these forward-looking Non-GAAP measures to the most comparable GAAP financial measures because certain information needed to reconcile those Non-GAAP measures to the most comparable GAAP financial measures is dependent on future events some of which are outside the control of Shell, such as oil and gas prices, interest rates and exchange rates. Moreover, estimating such GAAP measures with the required precision necessary to provide a meaningful reconciliation is extremely difficult and could not be accomplished without unreasonable effort. Non-GAAP measures in respect of future periods which cannot be reconciled to the most comparable GAAP financial measure are calculated in a manner which is consistent with the accounting policies applied in Shell plc's consolidated financial statements.

The contents of websites referred to in this report do not form part of the LNG Outlook 2024.

We may have used certain terms, such as resources, in this LNG Outlook that the United States Securities and Exchange Commission (SEC) strictly prohibits us from including in our filings with the SEC. Investors are urged to consider closely the disclosure in our Form 20-F, File No 1-32575, available on the SEC website www.sec.gov.

Shell plc February 2024

Summary

Shell LNG

Industry, heating and emerging Asia to drive LNG demand growth

- Demand for natural gas has peaked in some regions and globally is set to peak after 2040.
- The global LNG market will continue growing into the 2040s, mostly driven by China's industrial decarbonisation and strengthening demand in other Asian countries.



Shell plc



Gas prices more stable in 2023 but volatility lingered in a tight market

- Global trade in LNG expanded slightly in 2023, with tight supplies constraining growth and prices staying above historic averages.
- A milder winter, high gas storage levels, modest economic recovery in China and lower demand in Europe helped balance the global gas market during 2023.

Rising global demand for LNG expected to keep pace with new supply

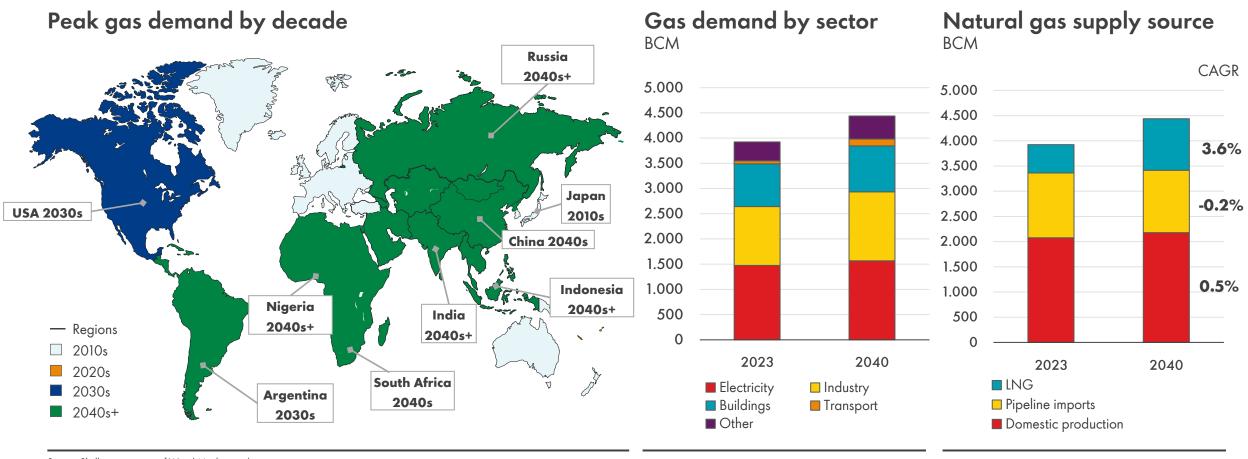
- In the medium term, latent demand for LNG especially in Asia is set to consume new supply that is expected to come onto the market in the second half of the 2020s.
- To offset falling domestic gas production in South-east Asia, significant infrastructure investment will be needed to access the LNG that these countries need for their economic development.





Gas use peaks in some markets, continues to grow globally LNG to play increasingly important role in global gas supply





Source: Shell interpretation of Wood Mackenzie data

CAGR: Compound annual growth rate

Industry, buildings to be key demand drivers in emerging Asia LNG expected to meet more than 75% of this growth



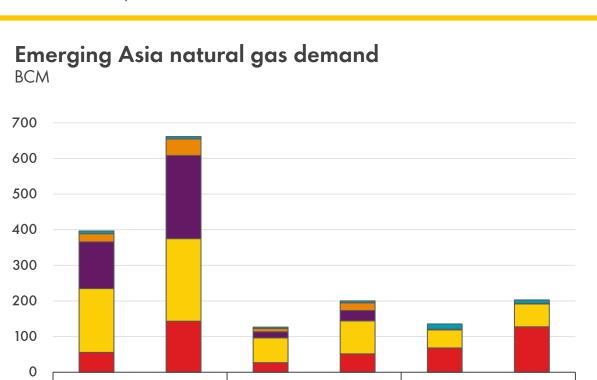
2023

Other

South-east Asia

2040

2040



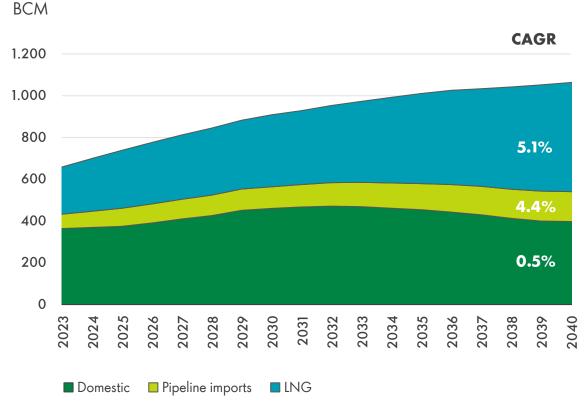
2023

Buildings

South Asia

Transport





Source: Shell interpretation of Wood Mackenzie data

Mainland China

Industry

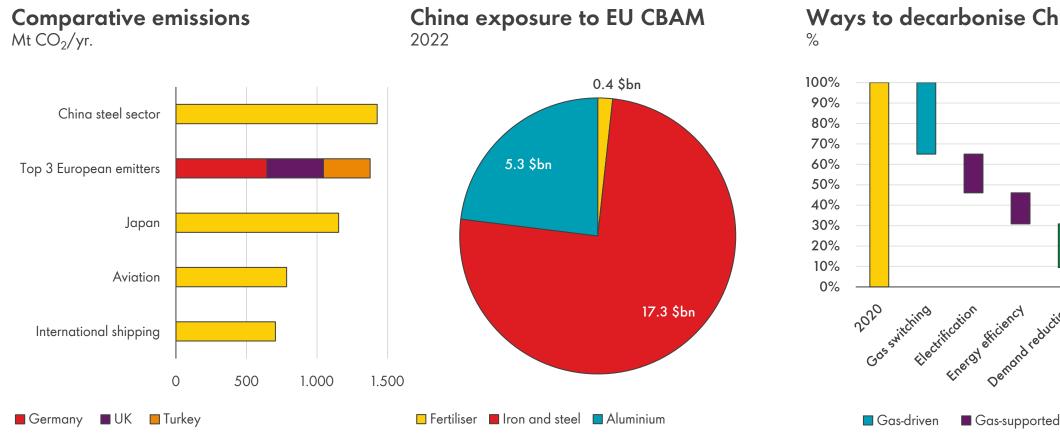
2040

2023

Industry must address CO₂ emissions



Gases expected to play an important role in reducing sector emissions



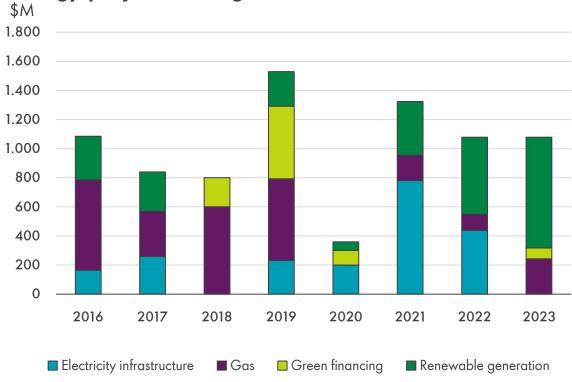
Ways to decarbonise Chinese steel

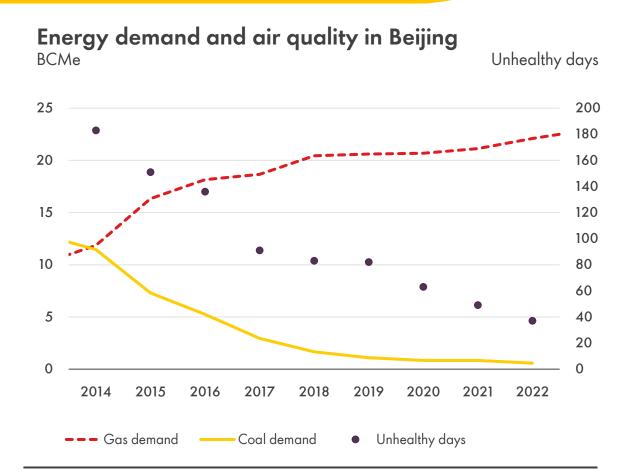
Source: Shell interpretation of Wood Mackenzie, IEA data, Net Zero Roadmap for China's steel industry study for Global Efficiency Intelligence & Lawrence Berkeley National Laboratory 2023 CBAM: Carbon Border Adjustment Mechanism. Value of Chinese exports to EU that will be covered by CBAM at implementation. CCUS: carbon capture, utilisation and storage (includes bio-energy CCUS). Three largest European emitters: Germany, UK, Turkey Other

Policy and investment continues for gas projects with environmental and emissions benefits





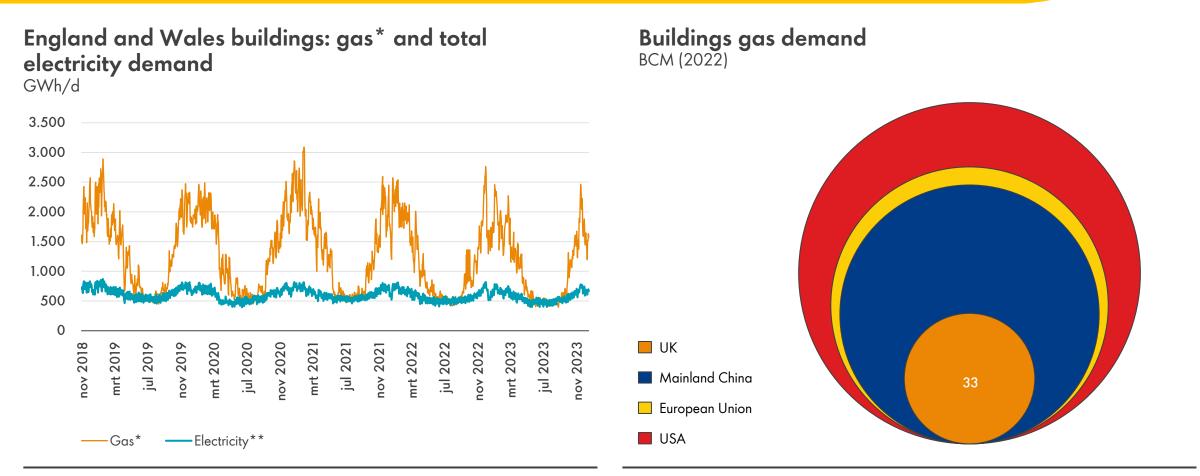




Sources: Shell interpretation of Asia Infrastructure Investment Bank data, Beijing Municipal Bureau of Statistics and Air Quality Index data Unhealthy days: defined as an Air Quality index with PM 2.5 greater than $150 \ \mu g/m^3$

Gas currently plays key role in meeting heating demand Electrification will need investment, supply chain and buildings improvements





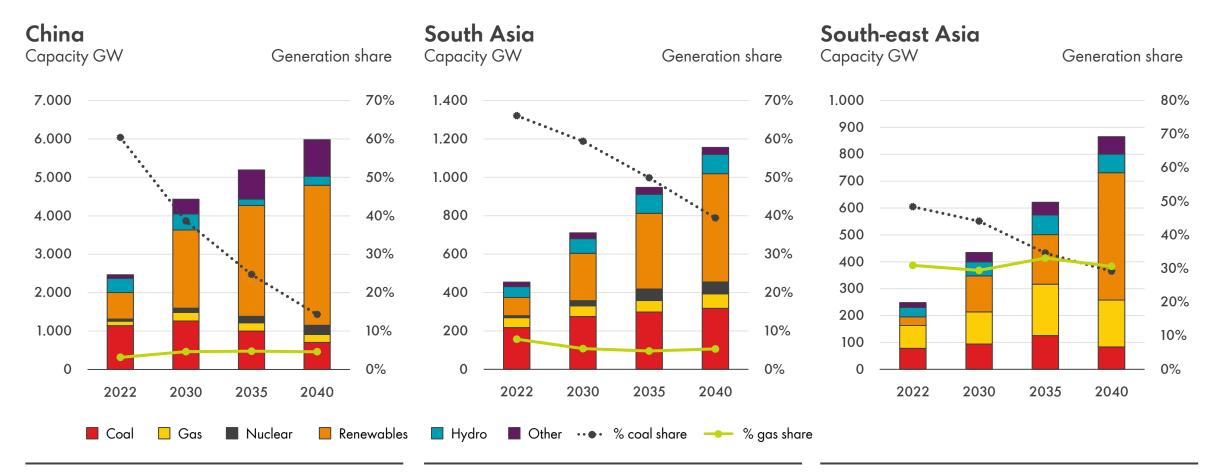
Sources: Shell interpretation of UK National Grid ESO and UK National Gas data 2023, Wood MacKenzie data 2023

^{*}Local Distribution Zones (low-pressure gas supplied to buildings) in England and Wales

^{**} Total electricity demand for England and Wales

Renewables, supported by gas, erodes coal's role in Asia





Source: Shell interpretation of Wood Mackenzie data

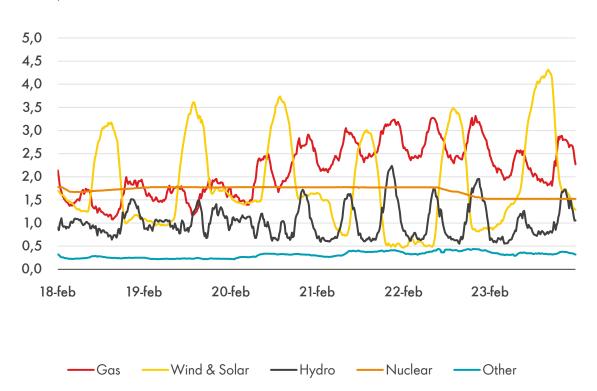
Gas provides grid stability, enabling a higher share of renewables in generation



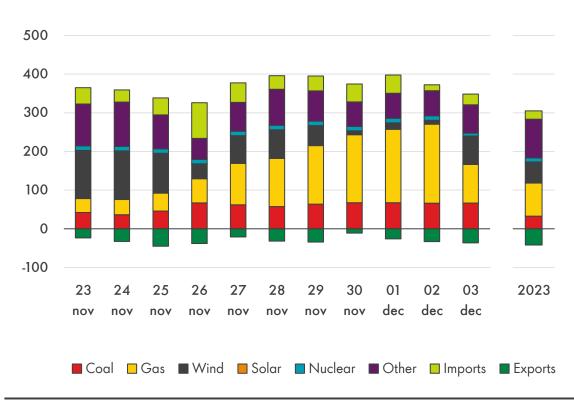
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Variable hourly power generation in Spain GWh/h



Variable daily power generation in the Netherlands GWh/d



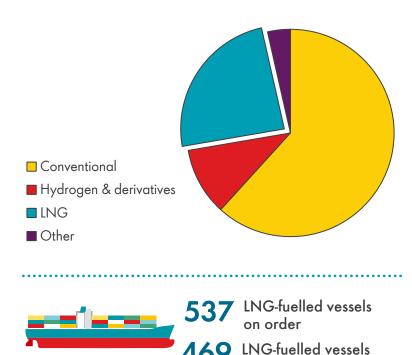
Source: Shell interpretation of European Network of Transmission System Operators data 2023 Spanish figures calculated from 15-minute intervals Other includes biomass, other renewables and coal

Marine sector continues to reduce emissions through LNG



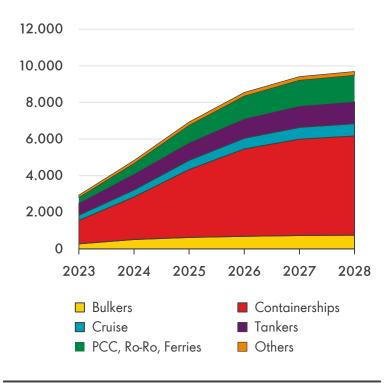
Liquefied gases can combine with technologies to help reduce emissions



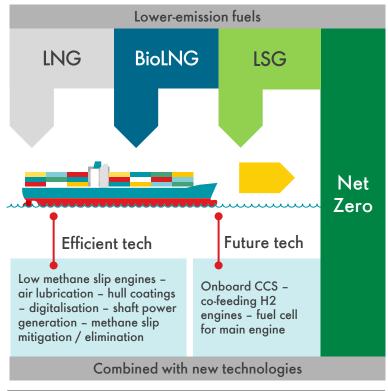


in operation

Projected LNG bunkering to 2028 ('000 tonnes)



Pathways to CO₂e reduction



Source: Shell interpretation of Clarksons Research, DNV

Hydrogen & derivatives: methanol, ammonia, hydrogen, biofuel. Other: Ethane, LPG, nuclear. PCC: pure car carriers. Ro-Ro: roll-on/roll-off. Others: dredgers, ferries, multi-purpose, LPG, tugs. LSG: liquefied synthetic gas. Energy efficient technologies include air lubrication, shaft power generation, digital technologies, wind technologies and improved hull coatings. Future Technologies include onboard carbon capture and storage, co-feeding hydrogen combined with dual-fuel LNG engines, fuel cell for main engine.

LNG decarbonisation pathways need to be explored together

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To address emissions today and progress zero emission options



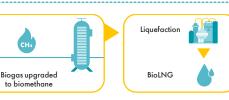


2100% emissions compensated Carbon credits can be used to compensate for CO₂e lifecycle emissions of LNG cargoes









2 100% emissions reduced

Depending upon percentage of bio blending





~10%

emissions reduced

For example, using renewable electricity in liquefaction processes can help reduce emissions by 8%

When produced













990-95% emissions

emissions electricity & using bio-CO₂





~80%+

CO₂ removal

CO₂ emissions removal with CCS in LNG liquefaction

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Source: Shell interpretation of UK Department for Environment, Food and Rural Affairs (DEFRA) GHG conversation factors 2022, JEC Well-to-Tank report v5, Wood Mackenzie announcement

Surplus

electricity

renewable

energy

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A common goal: reducing methane emissions to 'near zero'



Driven by government, institutions and policy



156 countries now part

of Global Methane Pledge, covering 86% of LNG importing countries*



Groundbreaking methane
regulation for oil and gas,
including imports of gas and
LNG into the EU

Agreement of EU, Japan, South Korea, USA and Australia to harmonised MRV



\$255 mln mobilised

for World Bank methane and flaring fund

Source: Oil & Gas Methane Partnership (OGMP), public announcements, Methane Intelligence (MiQ) announcements, **including EU; **Announcement by Daphne Technologies (SlipPure **)



Driven by industry



120 companies and 70 countries

have joined OGMP 2.0

52 signatories

to oil and gas decarbonisation charter launched at COP 28

Lab tests of new shipping technology shows methane reduced to

low levels**



Driven by customers



First GIIGNL's MRV and GHG Neutral aligned cargo delivered in Taiwan



Increasing customer led demand for transparency and third-party verification

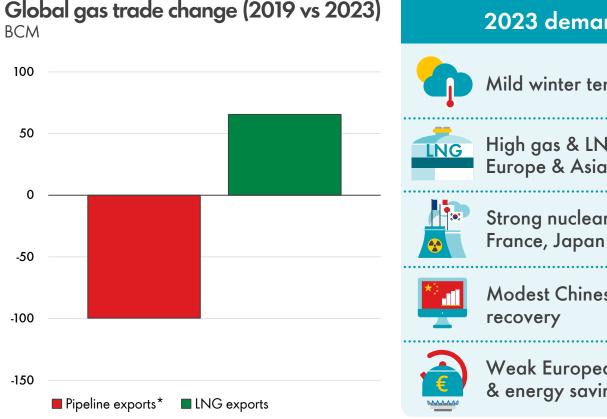
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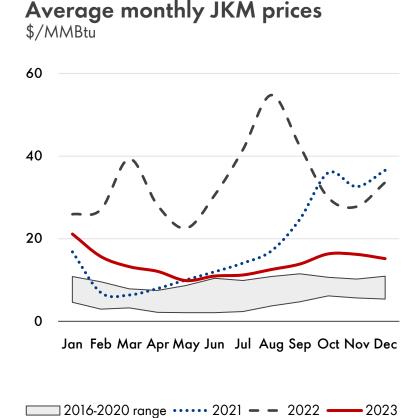


Despite structural tightness prices moderated in 2023 JKM prices fell but remained above historical norms







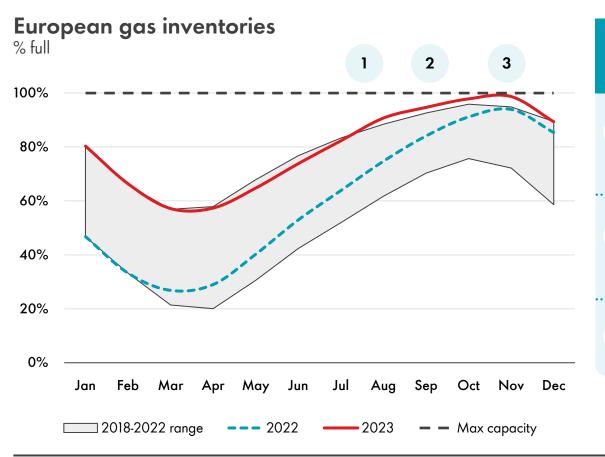


Source: Shell interpretation of Intercontinental Exchange (ICE) and Wood Mackenzie data JKM: Japan Korea Marker

^{*}Pipeline exports exclude North America pipeline trade

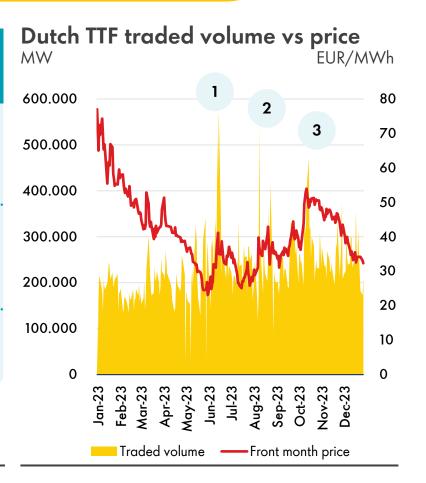
Supply security concerns sparked periods of volatility Global events impacted market even with record-high inventories





Event-driven volatility

- **Prolonged** Norwegian maintenance
- Australian industrial action concern
- Israel-Hamas conflict

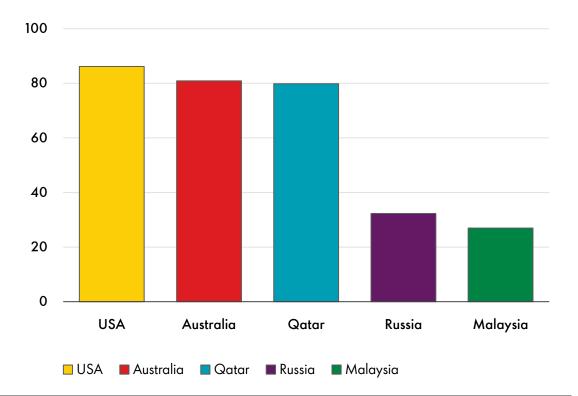


Source: Shell interpretation of Commodity Essentials and ICE data Europe includes UK, Germany, Belgium, France, Denmark, Netherlands, Spain, Italy, Austria, Slovakia, Czech Republic and Switzerland TTF: Title Transfer Facility

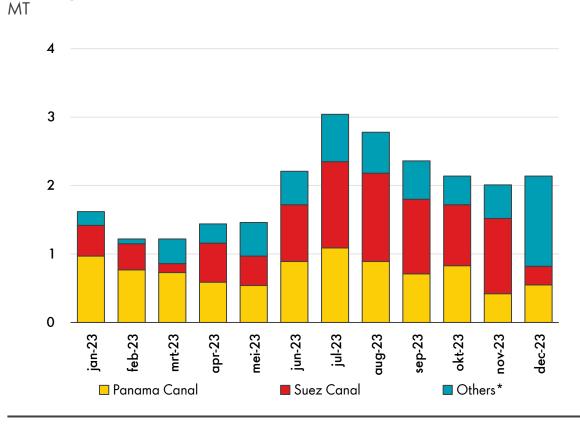
USA became the largest LNG exporterPanama Canal constraints shifted trade patterns







US exports to Asia

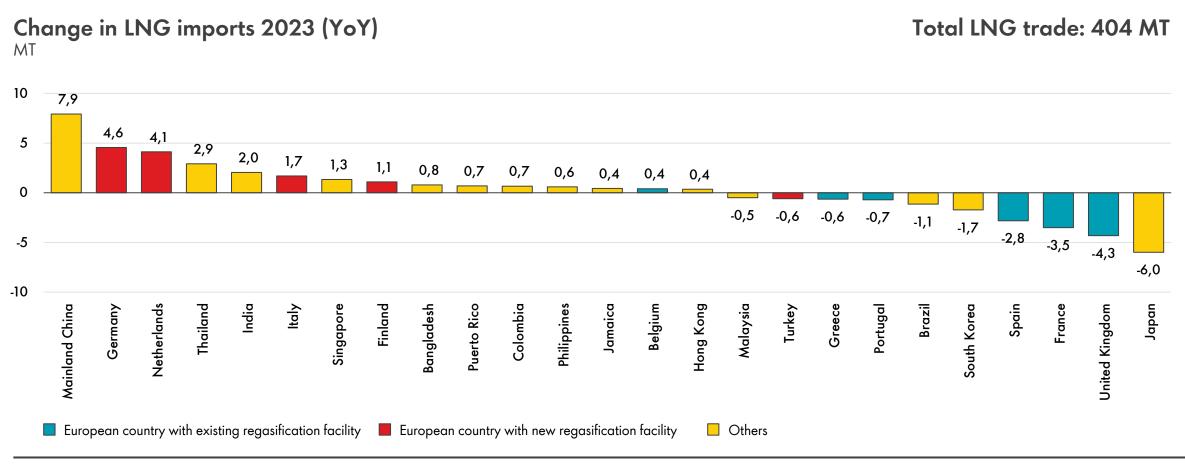


Source: Shell interpretation of Kpler data *Others: Cape of Good Hope

New infrastructure helps redistribute European LNG imports



China retook top importer spot, emerging Asia shows growth potential

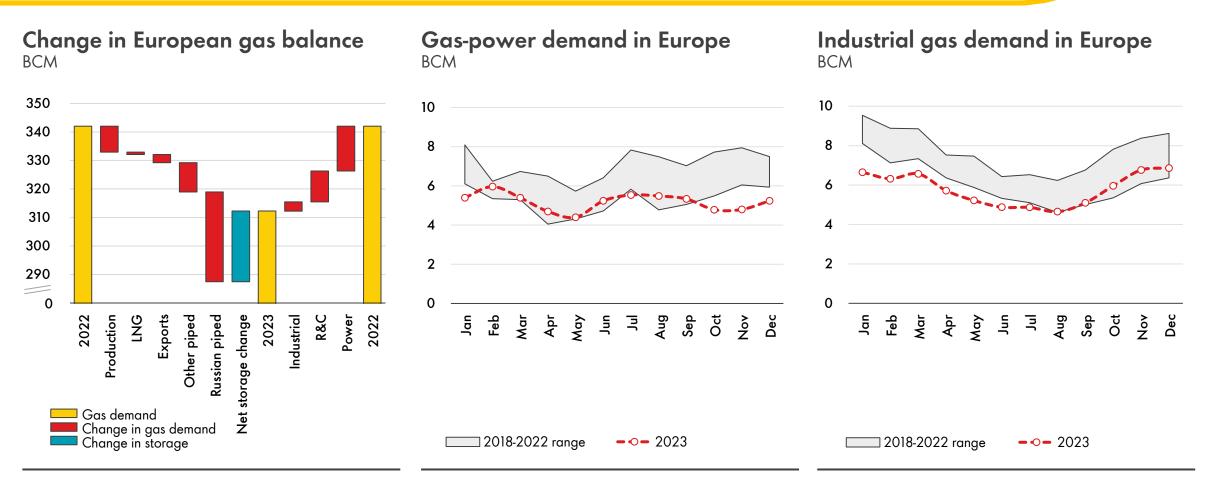


Source: Shell interpretation of Kpler data

European gas demand fell in 2023



Demand destruction continued due to lower supplies and elevated prices

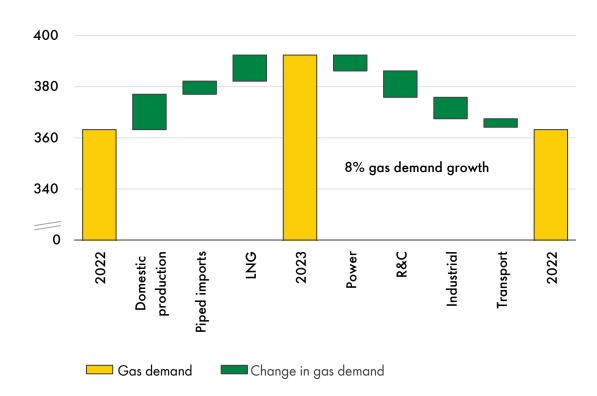


Source: Shell interpretation of Commodity Essentials data European demand includes UK, Germany, Belgium, France, Denmark, Netherlands, Spain, Italy, Austria, Slovakia, Czech Republic and Switzerland R&C: Residential and commercial

China gas demand outpaced moderate economic growth Robust domestic supply, piped imports and term LNG limited spot buying

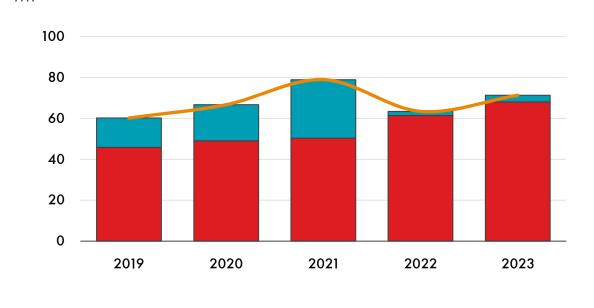
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Change in China gas balance BCM



China term vs spot LNG imports

Term



Implied spot

Source: Shell interpretation of National Bureau of Statistics of China and Wood Mackenzie data

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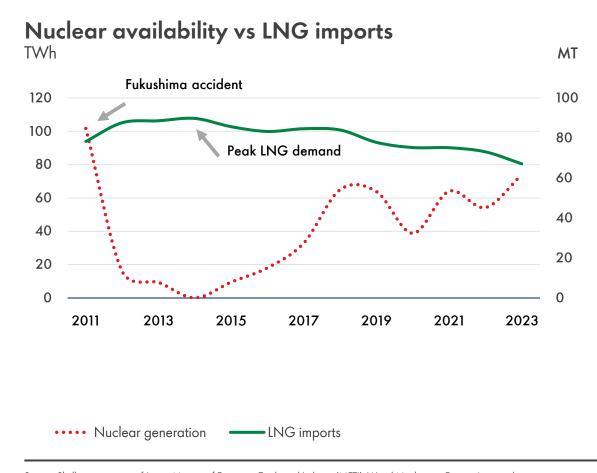


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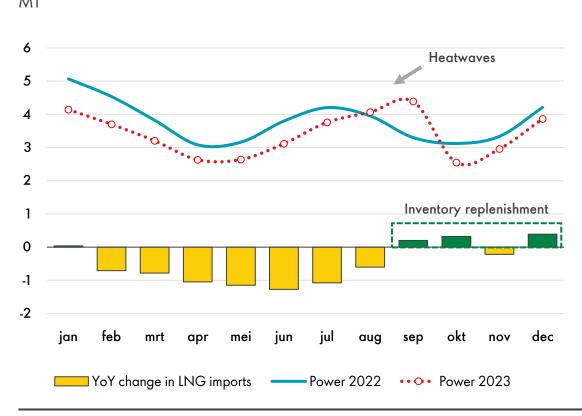
Total LNG imports

Japan gas demand declines as more nuclear plants restart Heatwaves drove up imports briefly









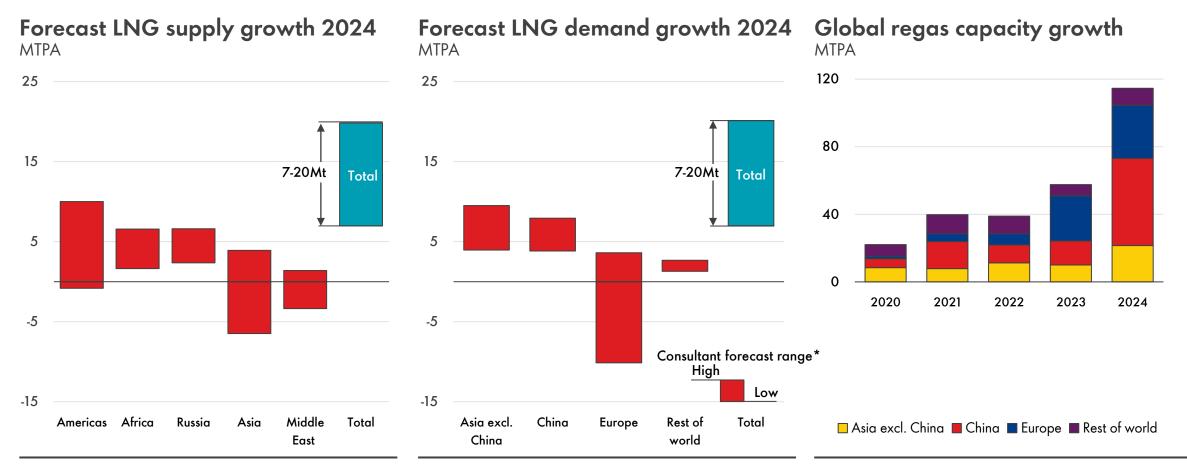
Source: Shell interpretation of Japan Ministry of Economy, Trade and Industry (METI), Wood Mackenzie, Energy Aspects data

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US supply and Asian demand to lead growth in 2024

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Import infrastructure ready to meet potential demand upsides



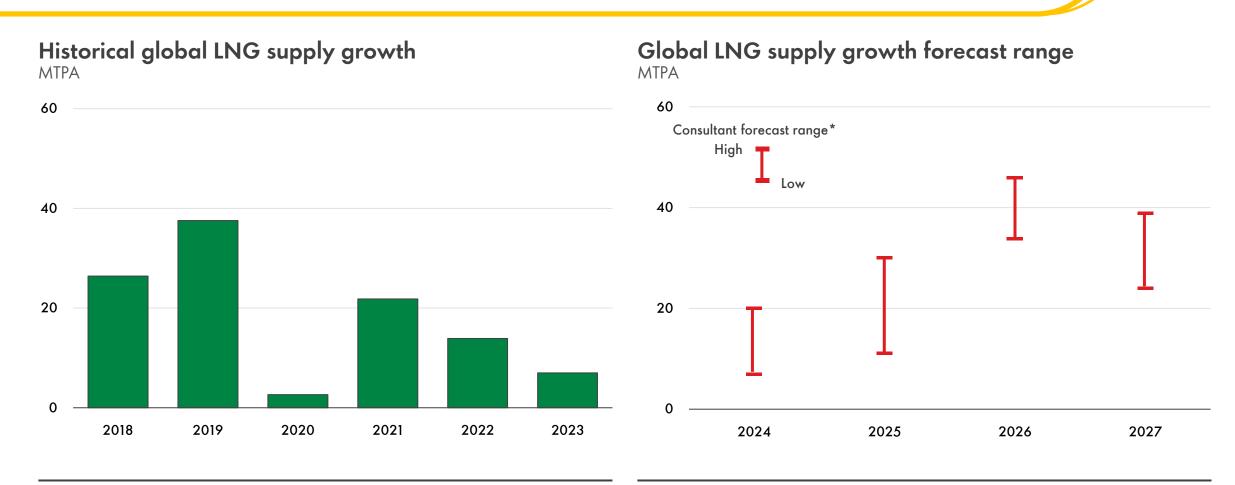
Source: Shell interpretation of Wood Mackenzie, Poten & Partners, S&P Global Commodity Insights and FGE data All forecasts are normalised to delivered volumes

^{*}Consultant forecast range represents the distribution of year-over-year supply and demand growth forecasts from Wood Mackenzie, Poten & Partners, S&P Global Commodity Insights and FGE



Significant LNG supply coming but start-up timings uncertain





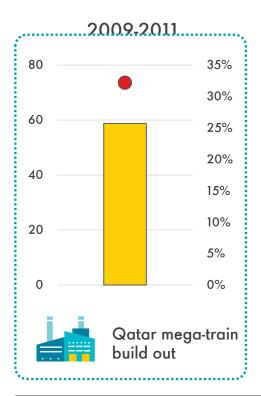
Source: Shell interpretation of Wood Mackenzie, Poten & Partners, S&P Global Commodity Insights and FGE data

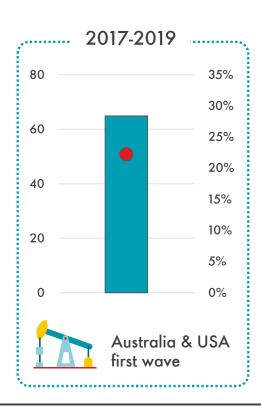
^{*}Consultant forecast range represents the distribution of year-over-year supply growth forecasts from Wood Mackenzie, Poten & Partners, S&P Global Commodity Insights and FGE.

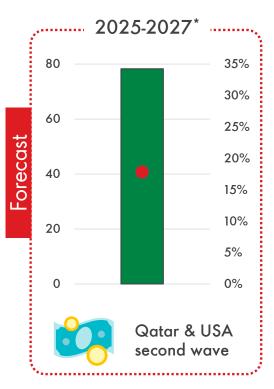
LNG industry has managed large expansions beforeDiverse demand sectors poised to consume new LNG supply

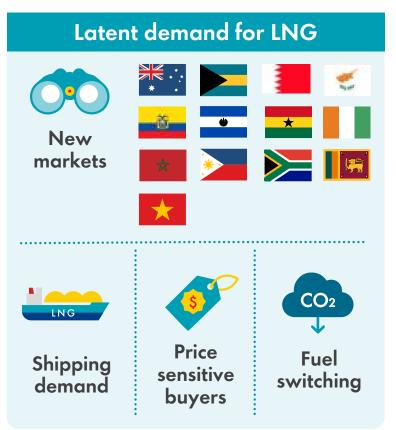
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Three-year historical and forecast global LNG supply increases MTPA - % increase









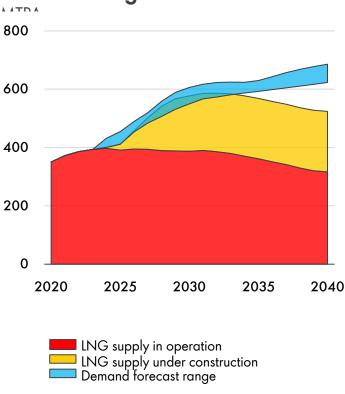
Source: Shell interpretation of Wood Mackenzie, Poten & Partners, IEA, S&P Global Commodity Insights and FGE data *2025-2027 represents the straight average of consultant forecast growth from 2025 to 2027.

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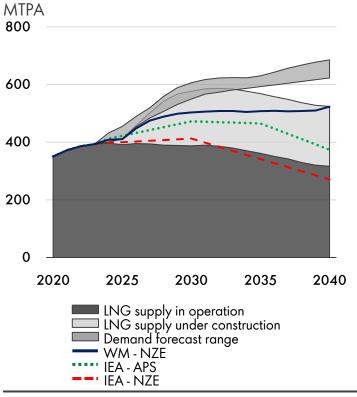
New LNG liquefaction investment underpinned by demand growth in China, South Asia and Southeast Asia



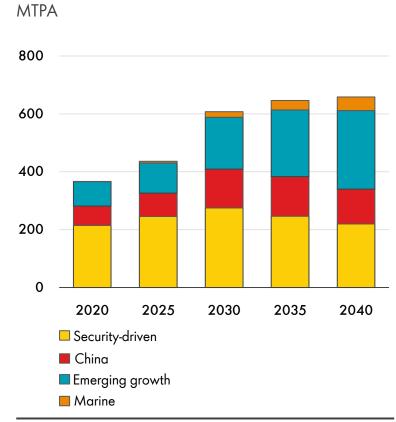
Global LNG supply vs demand forecast range



Global LNG supply vs demand scenarios



Global LNG demand

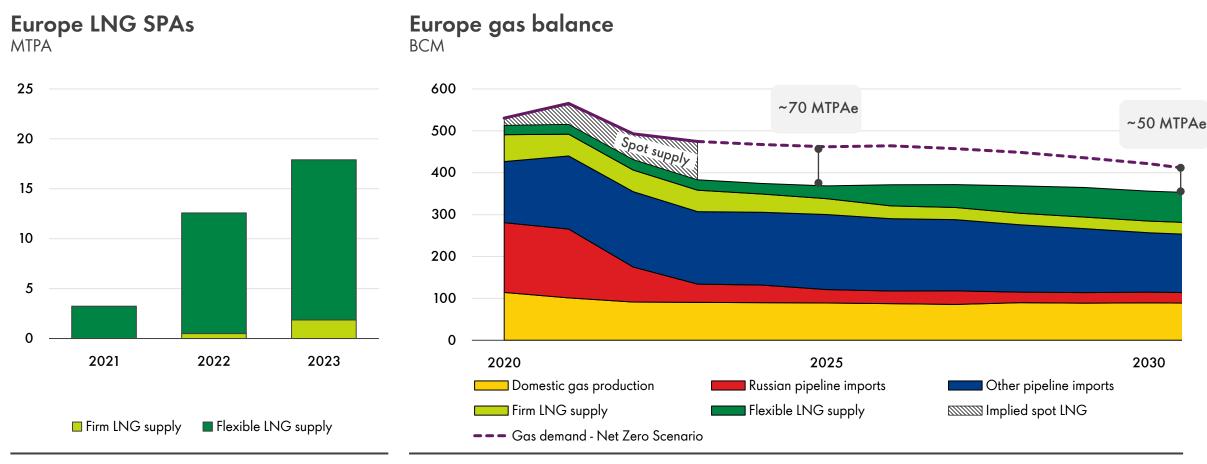


Source: Shell interpretation of Wood Mackenzie, Poten & Partners, IEA, S&P Global Commodity Insights and FGE data WM - NZE: Wood Mackenzie Net Zero Scenario. IEA - APS: IEA Accelerated Pledges Scenario. IEA - NZE: IEA Net Zero Emissions Scenario Security-driven: Japan, South Korea and Europe. Emerging growth: South Asia, South-east Asia and other demand

Europe will still need LNG despite declining gas demand



Increased term contracting in 2022-2023 is not enough



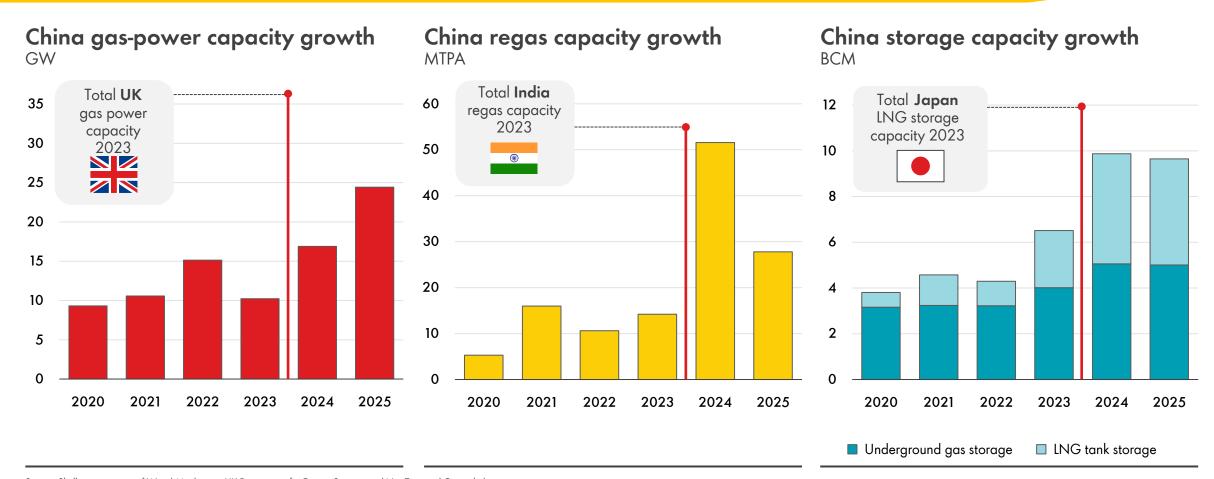
Source: Shell interpretation of Wood Mackenzie data

LNG contracts include LNG SPAs and secondary contracts. Europe comprises EU, UK, Norway, Turkey and Ukraine. Flexible LNG supply: supply that can be diverted. Firm LNG supply: supply contracted for delivery to the buyer. Gas demand – Net Zero Scenario is Wood Mackenzie's net-zero forecast, which represents the European Commission's Fit for 55 decarbonisation policy.

China's gas infrastructure development accelerates



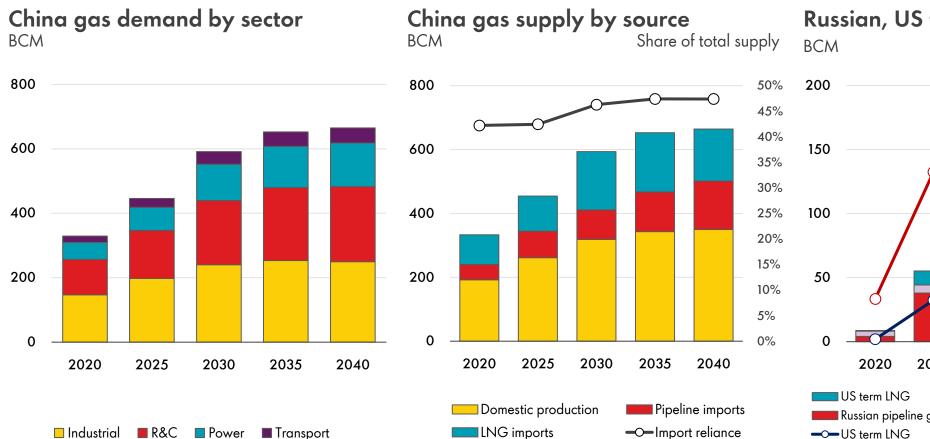
Growth in scale and connectivity enables China to balance the LNG market

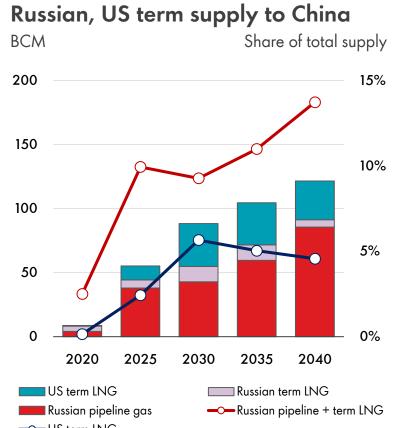


Source: Shell interpretation of Wood Mackenzie, UK Department for Energy Security and Net Zero and Gastank data Capacity growth considers projects that are operational and under construction.

China's long-term gas and LNG demand outlook is strong Supply diversification is a key characteristic of China's growth



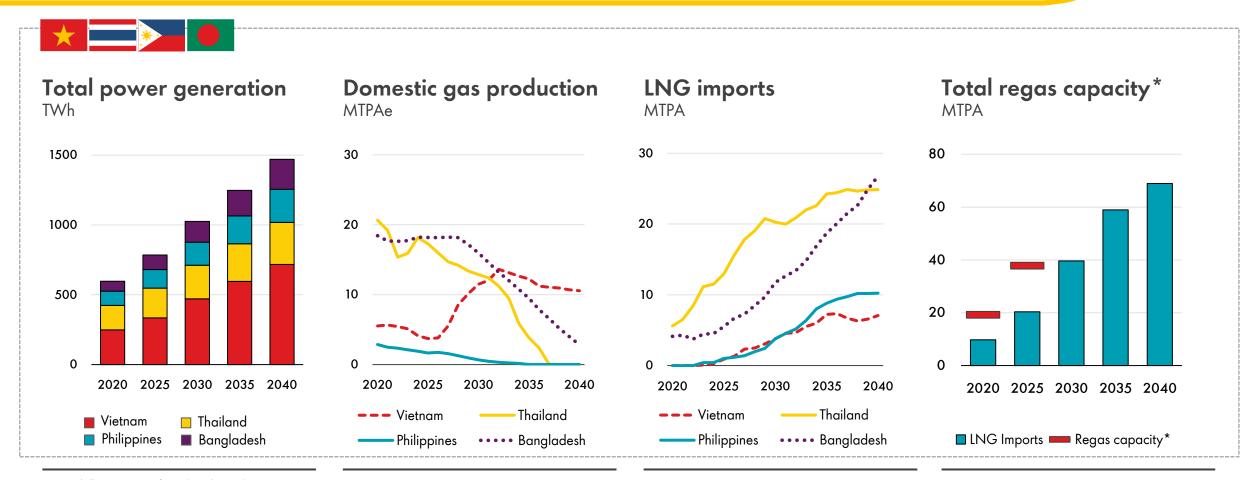




Source: Shell interpretation of Wood Mackenzie data

South, South-east Asia emerging as major LNG import regions Vietnam, Philippines started importing LNG to backfill domestic gas declines





Source: Shell interpretation of Wood Mackenzie data

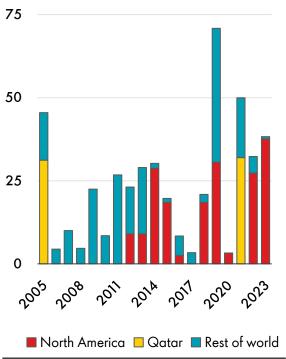
MTPAe: billion cubic metre equivalent in million tonnes per annum of LNG

^{*}Total regas capacity includes projects that are operational and under construction for the four countries referenced (Vietnam, Thailand, Philippines & Bangladesh).

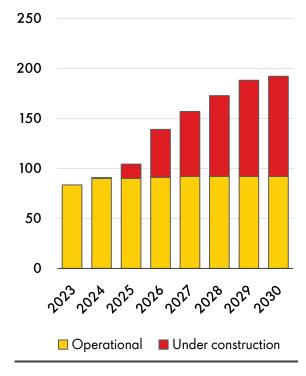
Global gas market increasingly exposed to US risks



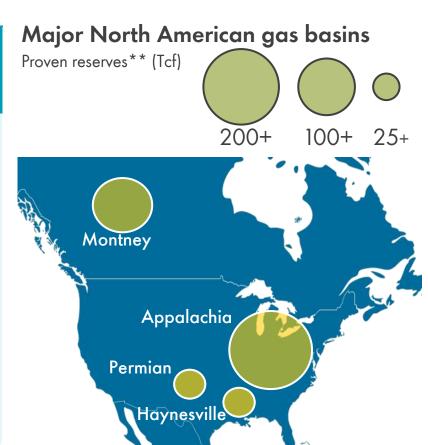




North American LNG supply



2030 North American LNG supply as % of: Global gas demand ~5% Global ING demand ~30% North American gas demand ~20%



Source: Shell interpretation of Wood Mackenzie data

^{*}Global liquefaction investment considers projects that have taken a Final Investment Decision (FID)

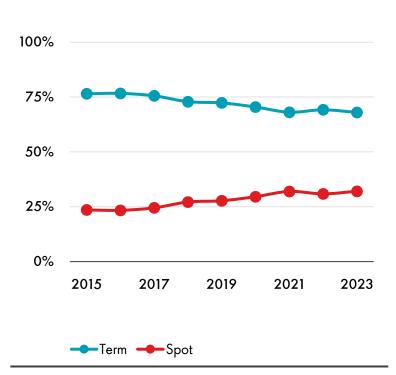
^{**}Proven reserves: represent 2P commercial reserves as defined by Wood Mackenzie. Bubbles are not exact geographical representations of the shale basins. Appalachia includes Marcellus and Utica plays

Qatar and USA deals dominate long-term contracting

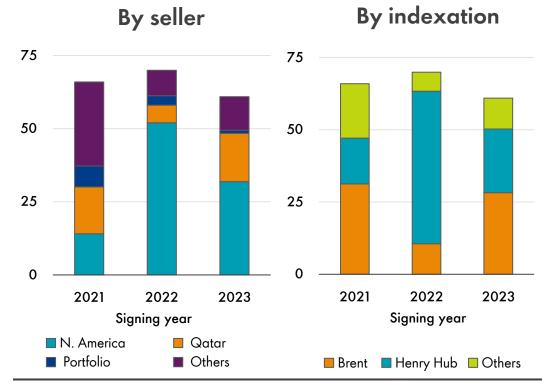


Brent and Henry Hub indexation underscores three commercial structures

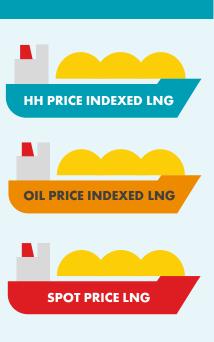
Global LNG market trade % total



Long-term LNG SPA signings MTPA







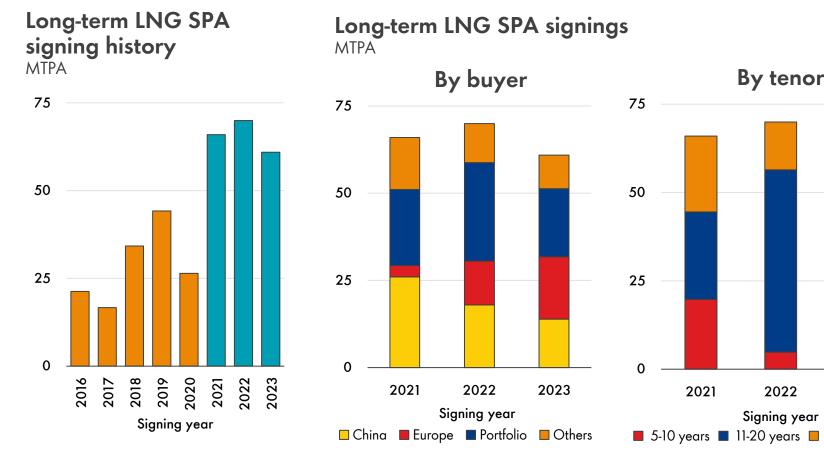
Source: Shell interpretation of Wood Mackenzie and S&P Global Commodity Insights data SPA: Sales and purchase agreement

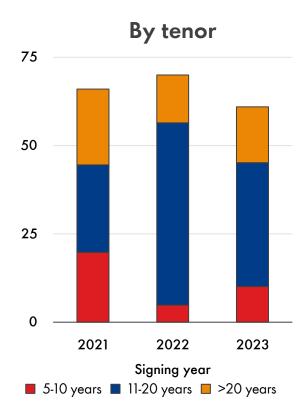
N. America represents USA, Canada and Mexico

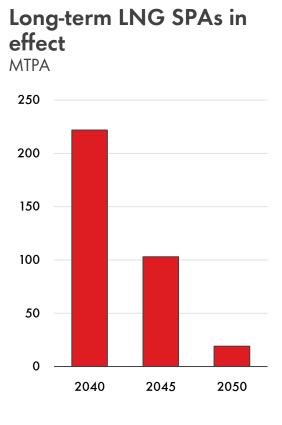
Buyers pursue long-term supply for energy security



Three-year upswing in contracting shows industry's commitment to LNG







Source: Shell interpretation of Wood Mackenzie and S&P Global Commodity Insights data

Industry, heating and emerging Asia to drive LNG demand growth



Demand for natural gas has already peaked in some regions

But demand for LNG is set to continue growing beyond 2040







China to drive demand for LNG this decade to meet industry needs and decarbonisation goals

LNG continues to lower emissions in the marine sector



LNG-fuelled vessels in operation set to double over the coming years



Continuing policy support for natural gas projects in Asia that deliver environmental and economic benefits



Gas prices more stable in 2023 but volatility lingered in tight market



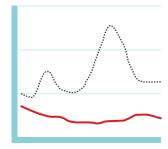
86m tonnes

USA became largest LNG exporter in 2023, shipping

86 million tonnes

Gas and LNG prices stabilised during 2023

But limited new LNG supply has kept gas prices above históric averages



...... 2022 _____ 2023 (TTF)

Chinese gas demand grew 8% despite modest economic recovery

Overtakes Japan to become largest LNG importer again



European gas use fell due to continued elevated prices



LNG continued to play a vital energy security role with Europe importing more than 120 million tonnes

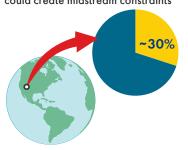


Global trade in LNG reached 404 million tonnes in 2023, an increase of 7 million tonnes compared to 2022

Latent LNG demand to keep pace with new supply but dependent on regas infrastructure investment

China's gas demand expected to **rise** by

more than **50**% by 2040 2020 2025 2030 2035 2040 North America expected to meet ~30% of **total** global LNG demand. But reliance on four basins could create midstream constraints





Europe will continue to need LNG to meet gas supply needs despite consensus for falling gas demand







Declining domestic gas

and growing power markets set to drive South and South-east Asia LNG imports

Dependent on **investment** in regasification infrastructure



