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High and volatile market prices: what can be done?

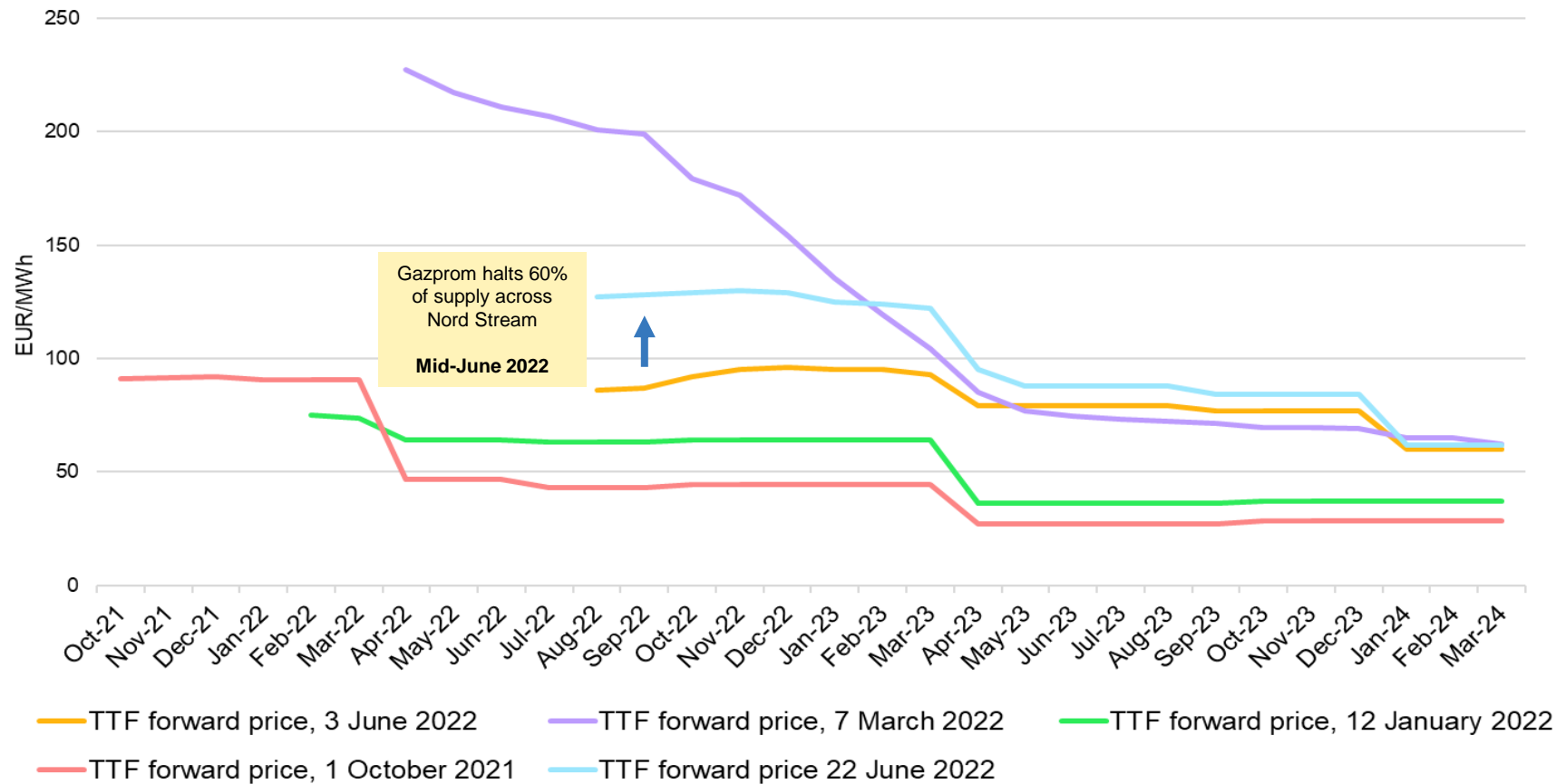
Extraordinary SEEGAS Crisis Response meeting

Wien/virtual, 30 June – 1 July 2022

Dennis Hesselting, Head of Infrastructure, Gas & Retail

Current forward prices indicate price expectations

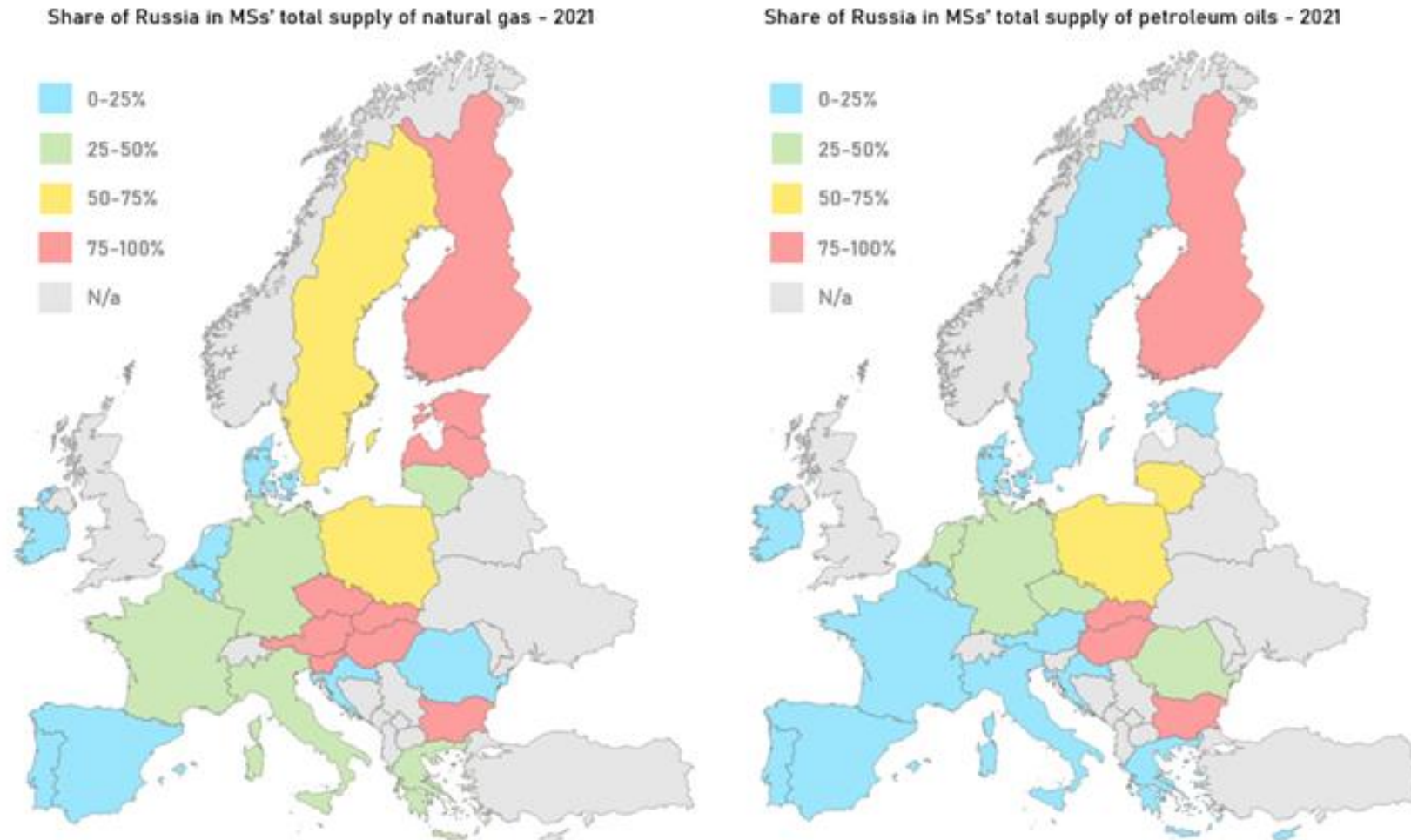
Evolution of gas (TTF) forward prices comparing the contractual outlook (October 2021 - June 2022)



Whilst Russia's invasion of Ukraine lead to high price spikes, these subsequently eased somewhat. Now, forward prices rise again due to reduced gas deliveries, in particular via Nord Stream 1.

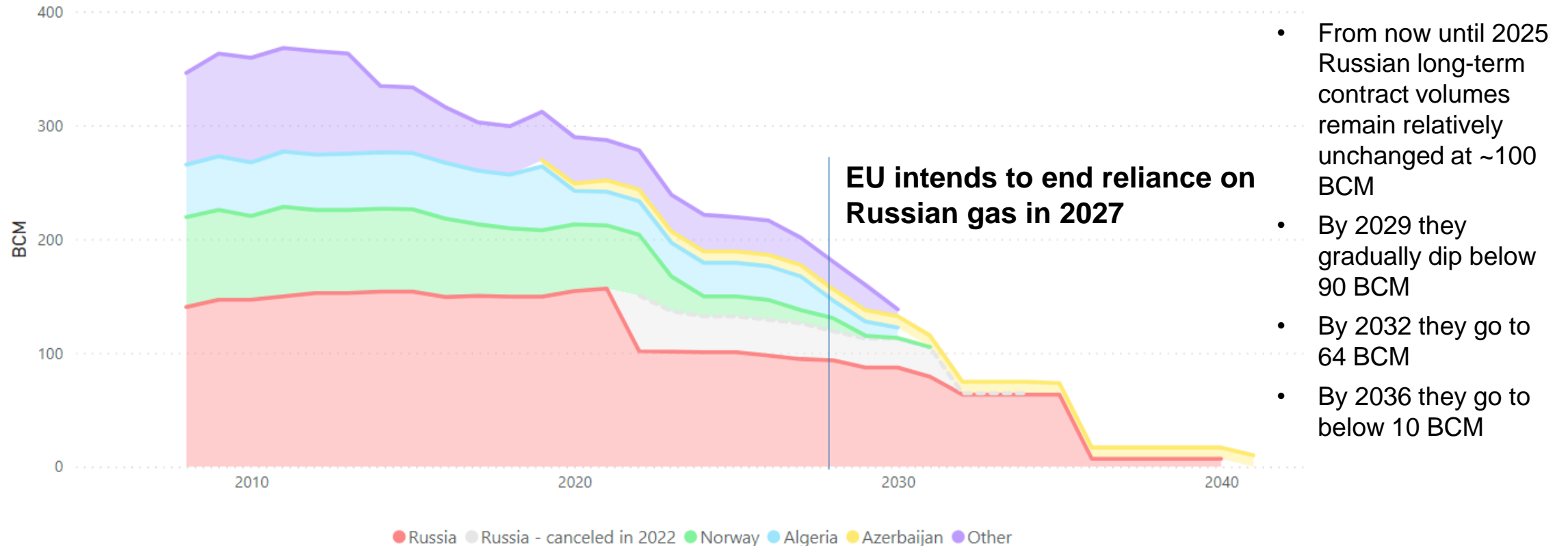
Energy dependence on Russia is significant

Share of Russian physical gas and oil in total supply of individual MSs – 2021 - % ranges



Russian long-term contracts will not suddenly disappear

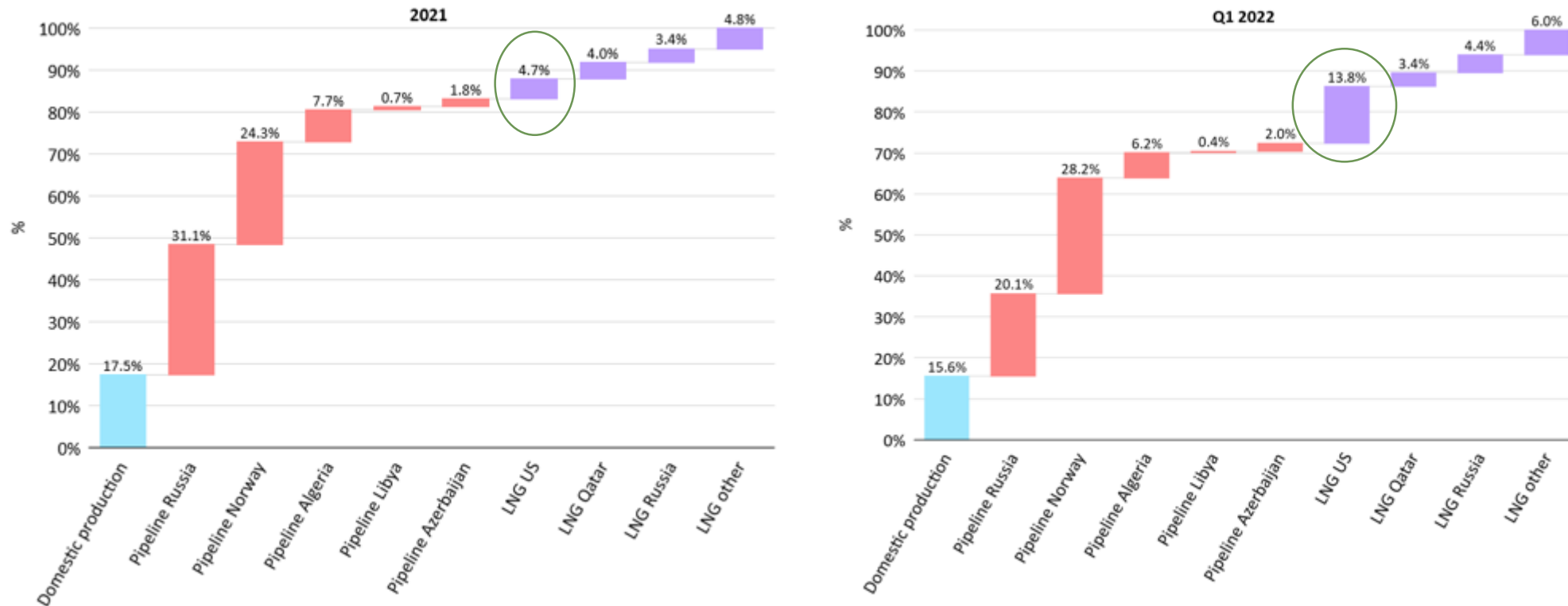
Evolution of the nominal capacity of pipeline long-term supply contracts prevailing in the EU and expiration calendar – bcm/year



Russian long-term contracts towards EU markets last significantly beyond 2027. This adds complexity to current considerations.

US LNG coming to the rescue; will it suffice?

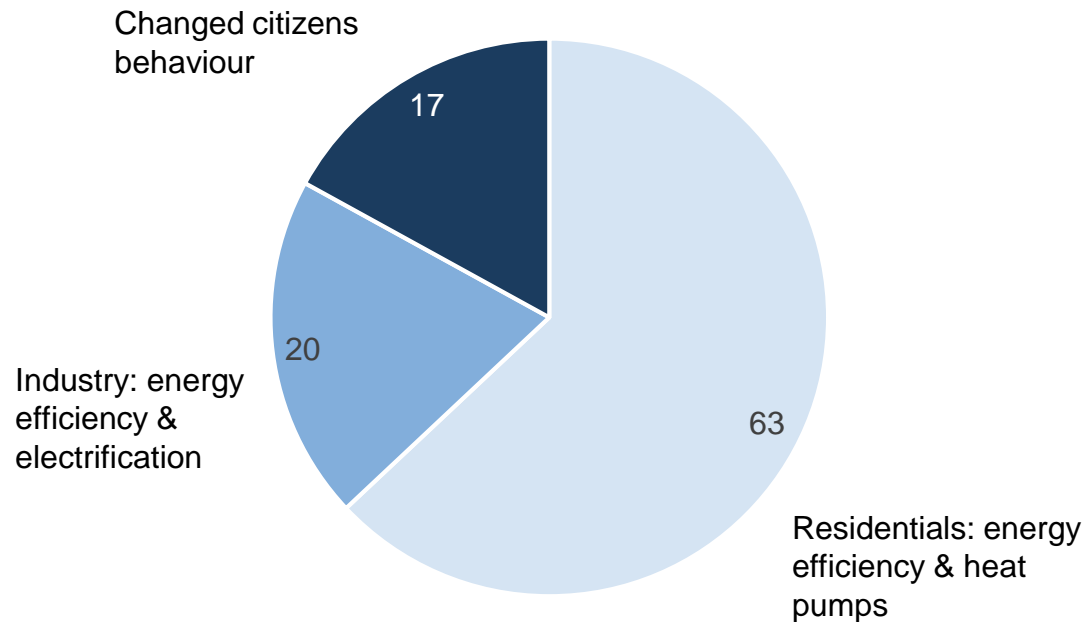
EU and UK gas supply portfolio by origin – 2021 (100% = 480 bcm) vs Q1 2022



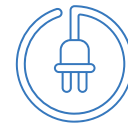
While LNG supply is rising significantly (+70% in Q1 2022), mostly coming from the US, it will be a challenge to meet the targeted two thirds reduction of Russian supply.

Aggressive demand reductions will be necessary

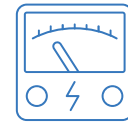
REPowerEU gas demand savings; what is being targeted 100% = 59 BCM



Example: buildings energy consumption



Buildings represent 40% of energy consumption



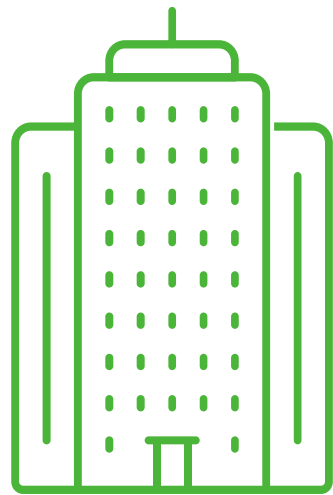
75% of buildings are energy inefficient



Only ~1% of building stock renovated yearly, getting to 1.7% a year would save an extra 1 BCM/year



More investment and support needed to speed up renovations



Targeting demand-side measures is key. Price signals are not ‘the full story’ (current incentives being a case in point). Institutional and behavioural barriers persist. In addition, some interventions have long lead times.

Thank you for your attention

Interested in more? Join our webinar on Gas Wholesale Market Monitoring on July 8, 10.00 – 11.00 h. CET



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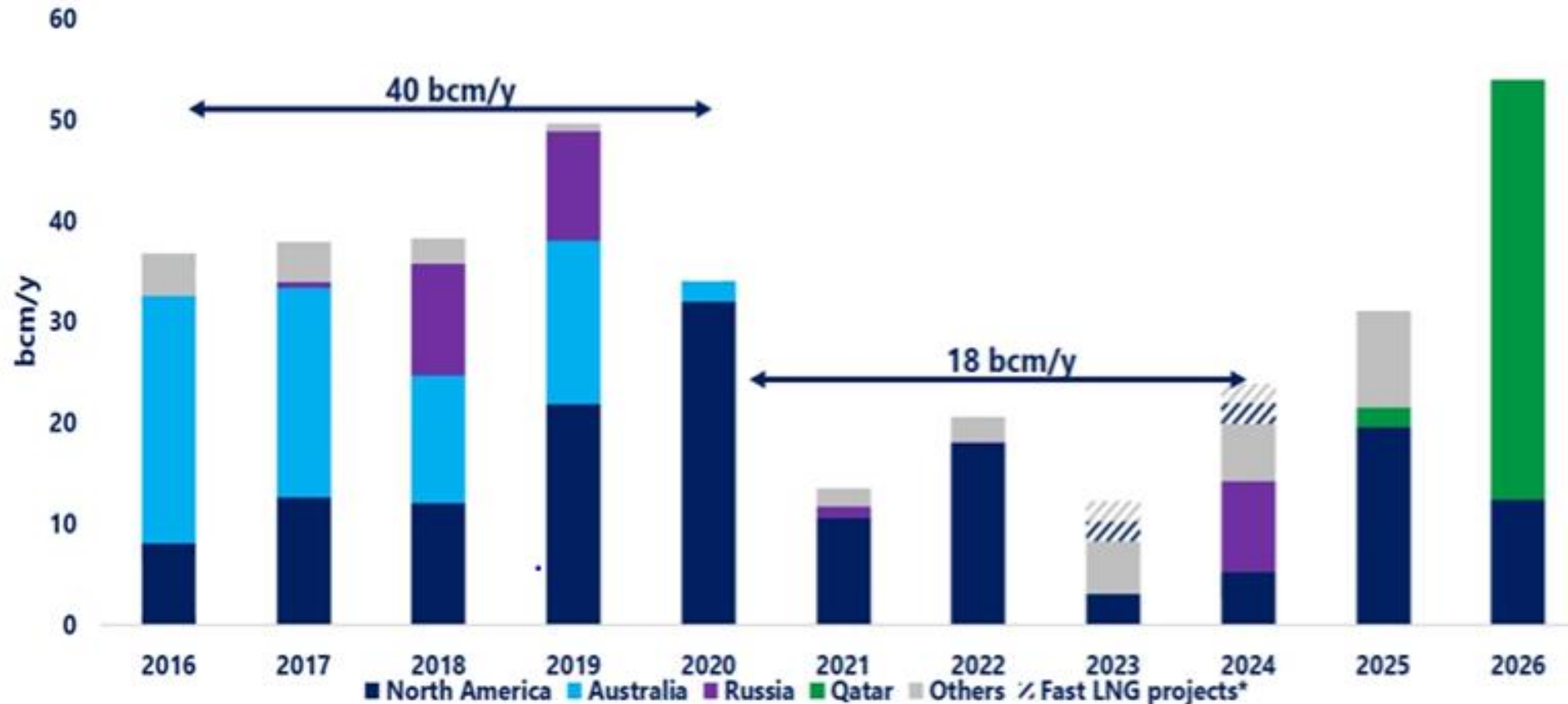
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Back-up slides

LNG capacity remains tight in the coming years

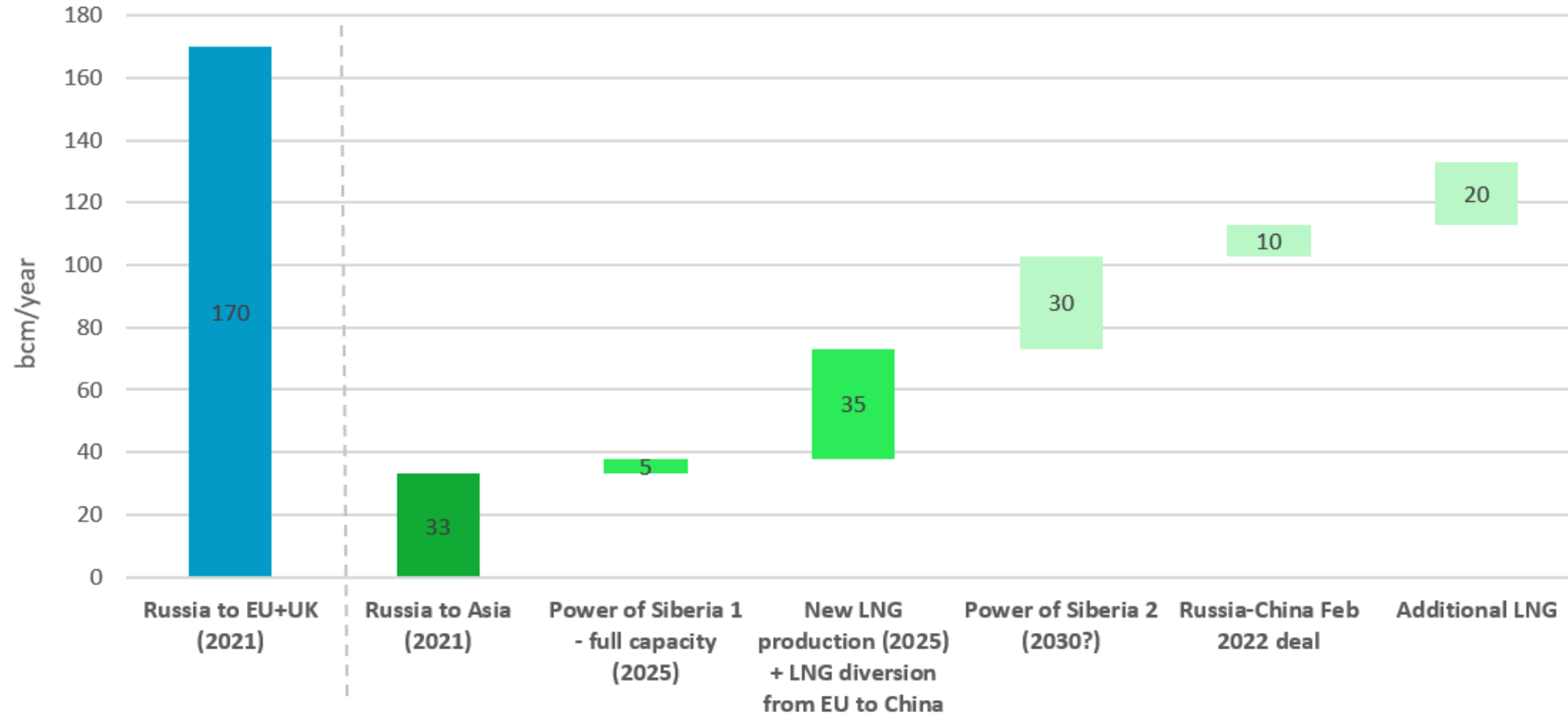
Global LNG liquefaction capacity additions by regions by start-up year – 2016-2026



The EU will compete for extra volumes with Asia which will see growing demand, partly for overall economic growth, partly for lowering coal usage.

Current Russian gas supply cannot just ‘go elsewhere’

Existing and potential Russian gas exports to Asia vs Russian export to EU + UK



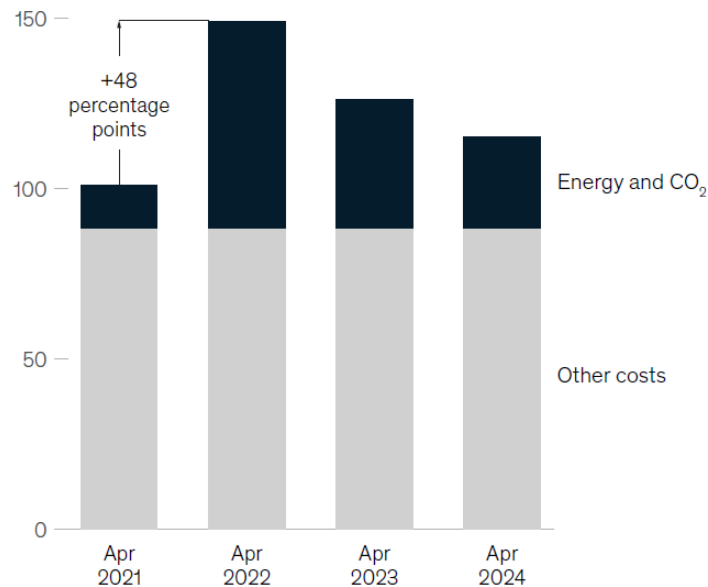
Russia expected to prioritise new export capacity, in particular towards China. This will involve significant investment and price concessions. Volumes are highly unlikely to make up for current EU + UK exports.

Rising energy costs in industry lead to demand cuts

Exhibit 1

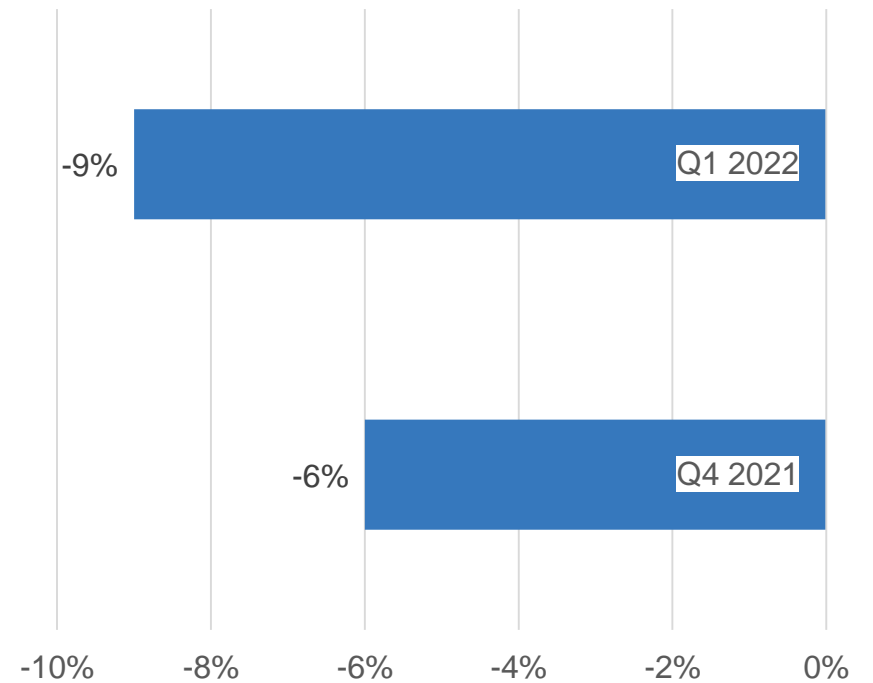
For some process industry players, rising energy prices have increased production costs by almost 50 percent.

Typical production cost structure, process industry player,¹ index (Apr 2021 = 100)



¹Fraction of total cost in 2021 for electricity 5% (€60/MWh), gas 5% (€20/MWh), CO₂ 2.5% (€50/MWh). Prices for gas futures based on EEX Futures, TTF (title transfer facility) as of Mar 14, 2022. Electricity price assumed double of natural gas price including CO₂. CO₂ price evolving to €100/ton for future years.

EU industrial gas demand



Industry is likely to be further encouraged or forced to further efficiency oriented investment.