

X-LNG CASE STUDY · JUL 2025

Predicting Global LNG Flows

50.0%

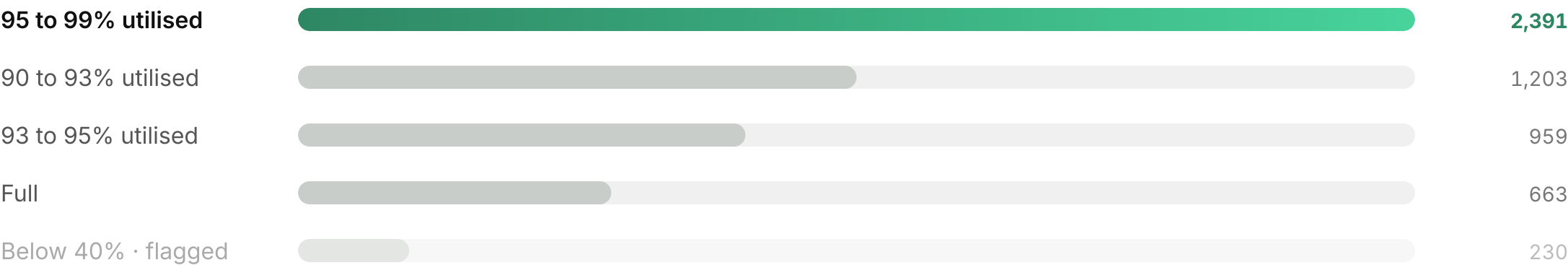
of 2023 LNG imports landed in East Asia

2023 full voyage dataset 30K tonnes commercial threshold 13 regional clusters

Two tests separate trade from noise

— Cargoes below 30,000 tonnes and voyages below 40% utilisation are excluded

VOYAGES BY CAPACITY UTILISATION · COUNT



What remains is the commercial market: most voyages sail near full; sub-40% legs are repositioning, testing or domestic loops.

Every parameter stays customisable

— From tonnes to cargoes, clustered for the engine

30K T

commercial threshold

3.6M

MMBtu per standard cargo

13

regional clusters

2023

full voyage dataset

Volumes are standardised from tonnes to MMBtu with **IGU conversion factors** and clustered into thirteen regions, so the same machinery can simulate **any what-if on future flows**.

The filtered dataset becomes the input of a global X-LNG run: number of commercial cargoes, both demand and supply, per month per country.

The trade, rebuilt

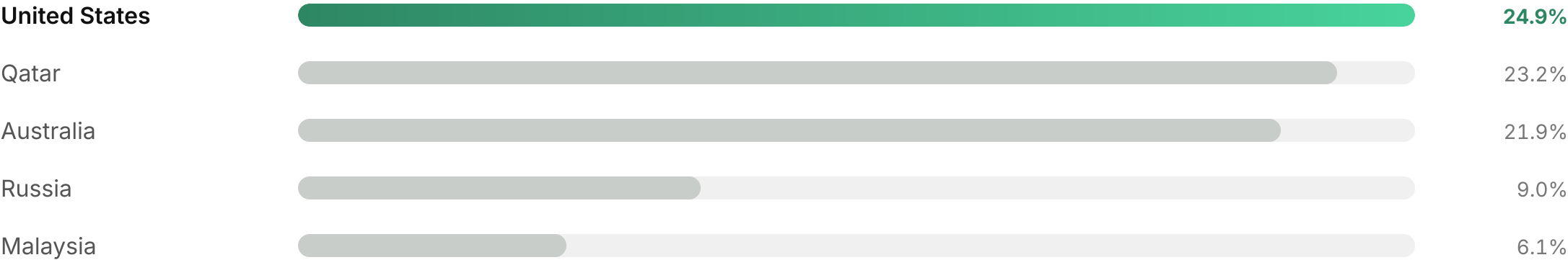
2023, cargo by cargo, after the filter

01

A three-way race at the top

— The US edges out Qatar and Australia in a near-tie that towers over everyone else

SHARE OF GLOBAL EXPORTS 2023

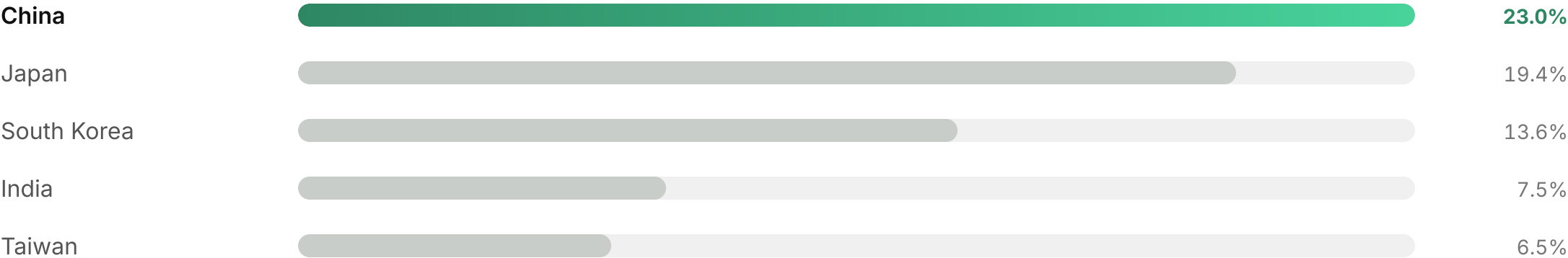


Russia holds nine percent despite sanctions, reoriented toward Asia.

East Asia takes half of everything

— China, Japan and South Korea alone account for over 55% of global imports

SHARE OF GLOBAL IMPORTS 2023



Regions: East Asia 50.0% · NW Europe 17.4% · South Europe and Med 11.7% · producing regions import almost nothing.

THE VERDICT

**Strip the noise and 2023 resolves into a three-way export
race
feeding an East Asia that takes half of everything.**

India emerges as the price-sensitive spot buyer, European imports reflect the post-2022 pipeline substitution, and producing regions import almost nothing.

From dataset to what-if machine

— The same machinery simulates any scenario on future flows

01

Supply disruption scenarios

Remove any source and re-optimize the global fleet: geopolitical and operational constraints, simulated.

02

Every assumption adjustable

Price indexation, shipping constraints and terminal parameters, tailored to the scenario.

03

Stress tested at +20% demand

Fleet utilisation, terminal congestion and spot exposure under a high-stress demand shock.

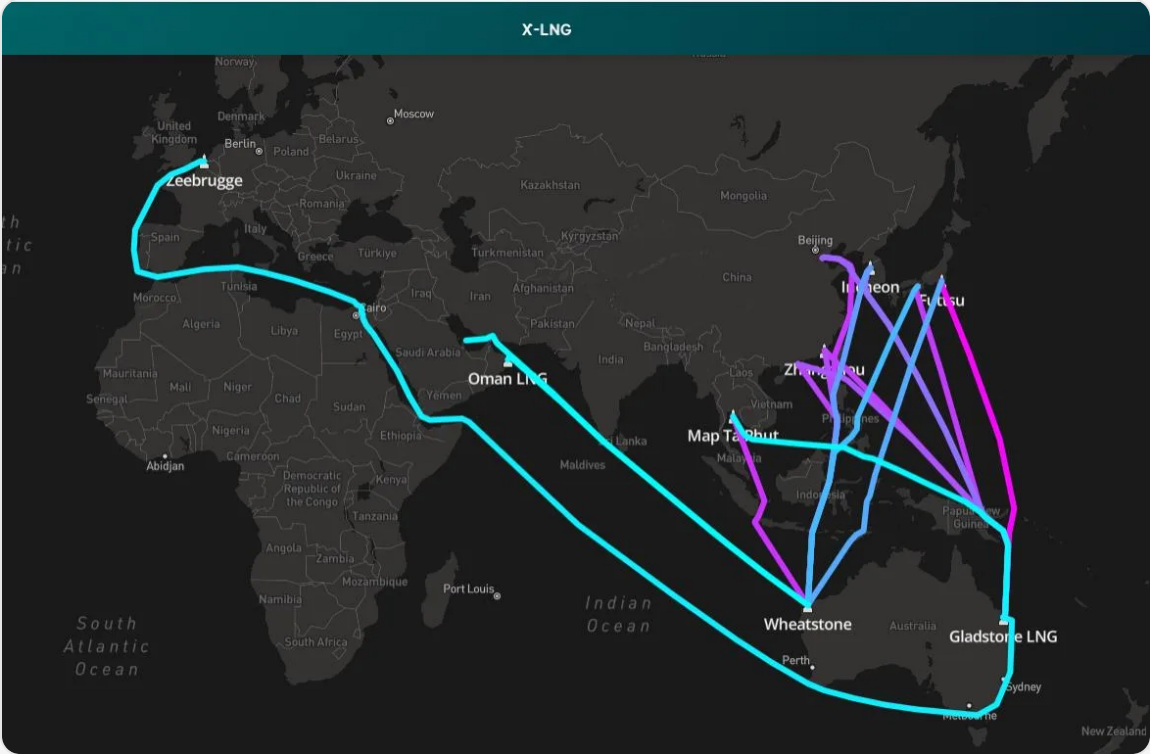
04

Rapid recalculation

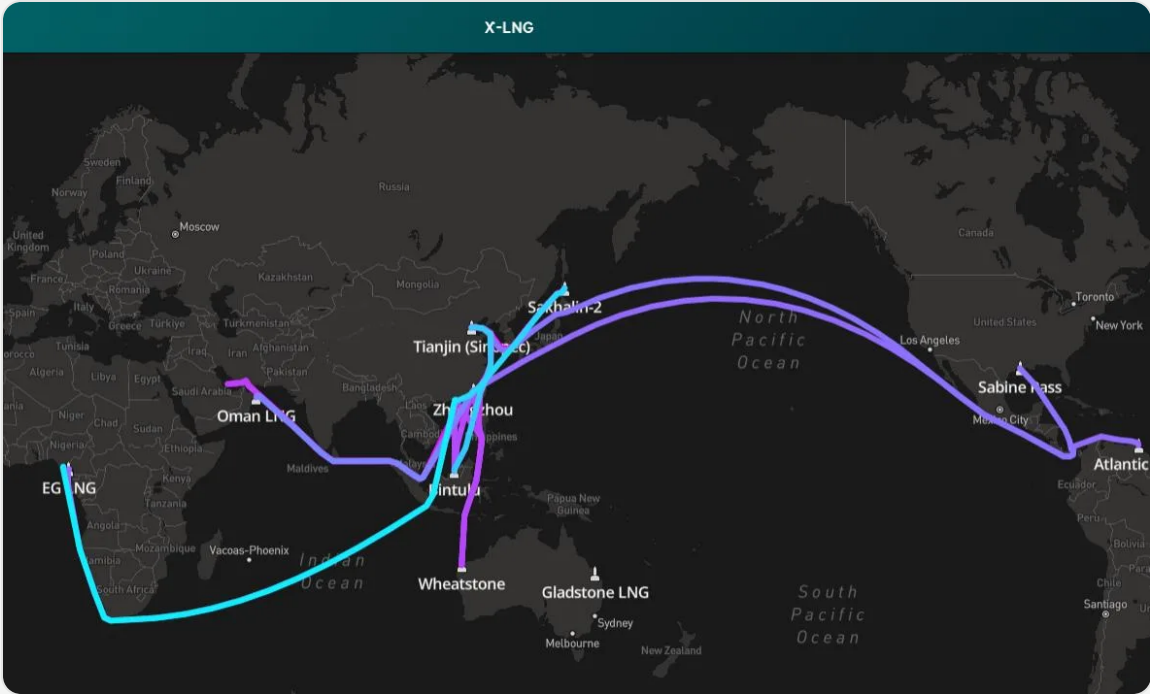
Global flows re-solved when assumptions change, for deep iterative analysis.

Straight from the engine

— The optimised 2023 flows from the global run, under real market prices



AUSTRALIAN SUPPLY UNDER 2023 PRICES



CHINA DEMAND, DIVERSIFIED SUPPLY

Takeaways

— What the filtered 2023 trade actually says



A three-way race feeds the market

The US (24.9%), Qatar (23.2%) and Australia (21.9%) tower over everyone else; Russia holds 9.0% despite sanctions.



East Asia takes half of everything

50.0% of global imports; China, Japan and South Korea alone account for over 55%, India is the price-sensitive spot buyer.



Raw voyage data misleads

230 sub-40%-utilisation voyages and sub-30K-tonne cargoes are noise; forecasts built on unfiltered data inherit it.

Modelled with X-LNG

— Whole-portfolio optimisation for LNG books

1

Your world goes in

Contracts, vessels, charter rates, prices, spot assumptions and constraints, the full book, not a slice.

2

One optimal plan comes out

Feasible, P&L-maximising and constraint-compliant, re-solved for every scenario in minutes.

3

Every number checks out

Each result can be recalculated by hand, transparency your risk committee can audit.

Model the flows your strategy depends on

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