

X-LNG CASE STUDY · NOV 2024

# LNG Expansion in the Pacific

## +\$83.1M

the Mexico advantage with Suez and Panama closed

80 cargoes · 7 × 174K vessels    2025 programme · Gate and Futtsu    Forward curves HH, TTF and JKM

# Two books, same demand

Both serve Gate and Futtsu with 80 cargoes on seven 174K vessels through 2025

## BOOK 1 · US GULF ONLY

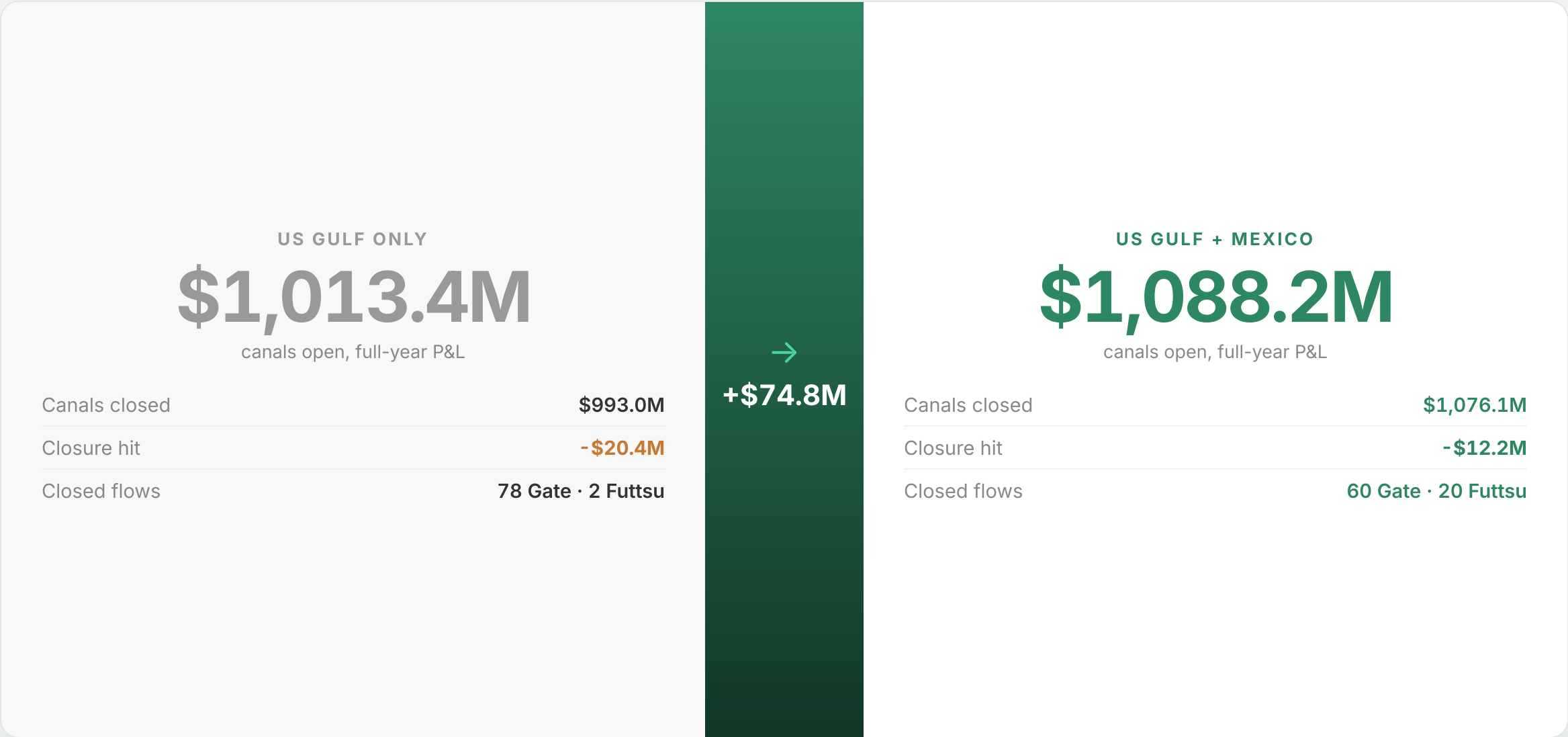
- **80 cargoes** from Sabine Pass
- 115% HH + \$3.5 tolling fee
- Everything crosses Panama or Suez to reach Asia

## BOOK 2 · US GULF + MEXICO

- **60 cargoes** from Sabine Pass, same terms
- **20 cargoes** from Costa Azul, 120% HH + \$3 tolling
- The Pacific coast reaches Asia without any canal

# More in every state, safer in the bad one

— Full-year P&L, canals open and closed, re-optimised per state



Exact engine results: open \$1,013,418,557 → \$1,088,249,229 · closed \$992,984,431 → \$1,076,062,599.

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# Shut both canals

The resilience test, re-optimised under full closure

01

# The drawdown gap

— What a double closure costs each book, and what Mexico adds before any crisis

**-\$20.4M**

US-only closure hit

**-\$12.2M**

diversified closure hit

**+\$74.8M**

Mexico uplift, canals open

**+\$83.1M**

Mexico uplift, canals closed

A double canal closure costs the US-only book over twenty million dollars; the diversified book gives up twelve.

And the Mexican cargoes **add value before any crisis**: the uplift exists in the open state too.

# Asia stays served through the Pacific

— Cargo flows under full closure, re-optimised

1

## US only: Asia is abandoned

The book retreats to Europe almost entirely: 78 cargoes to Gate, just 2 reach Futtsu the long way.

2

## With Mexico: 20 cargoes keep flowing east

All twenty Costa Azul cargoes reach Futtsu without touching a canal, while Sabine Pass backfills Europe with 60.

3

## Open state, same pattern

70 Gate and 10 Futtsu from the US-only book against 57 Gate and 23 Futtsu when Costa Azul is in the mix.

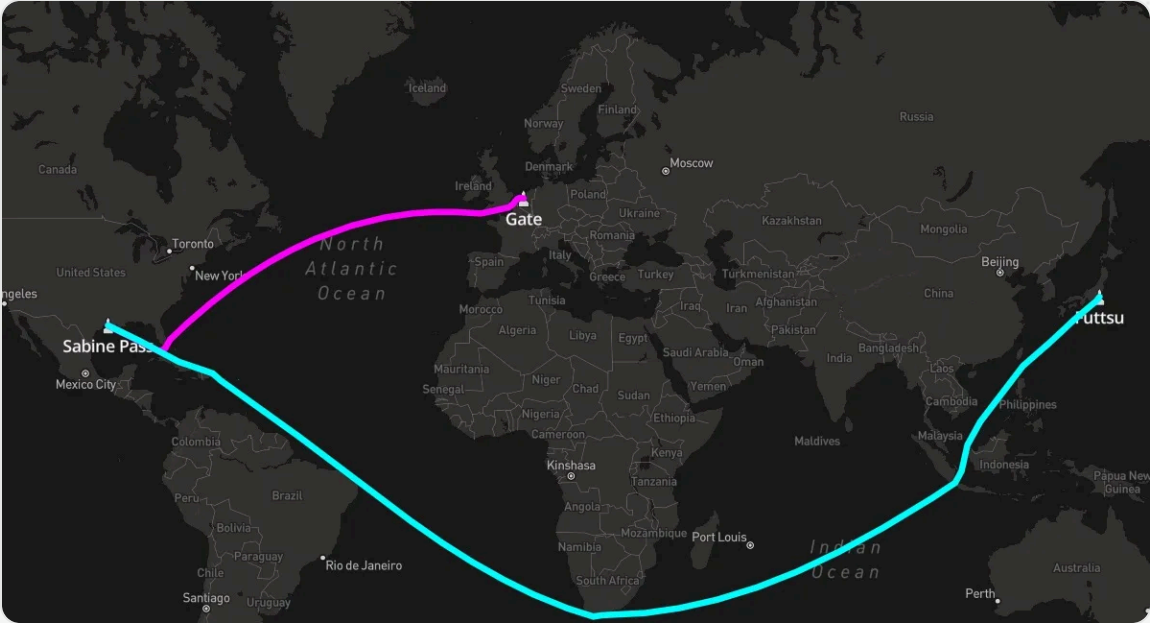
#### THE VERDICT

## **Pacific supply raises P&L in every state: the closure hit nearly halves.**

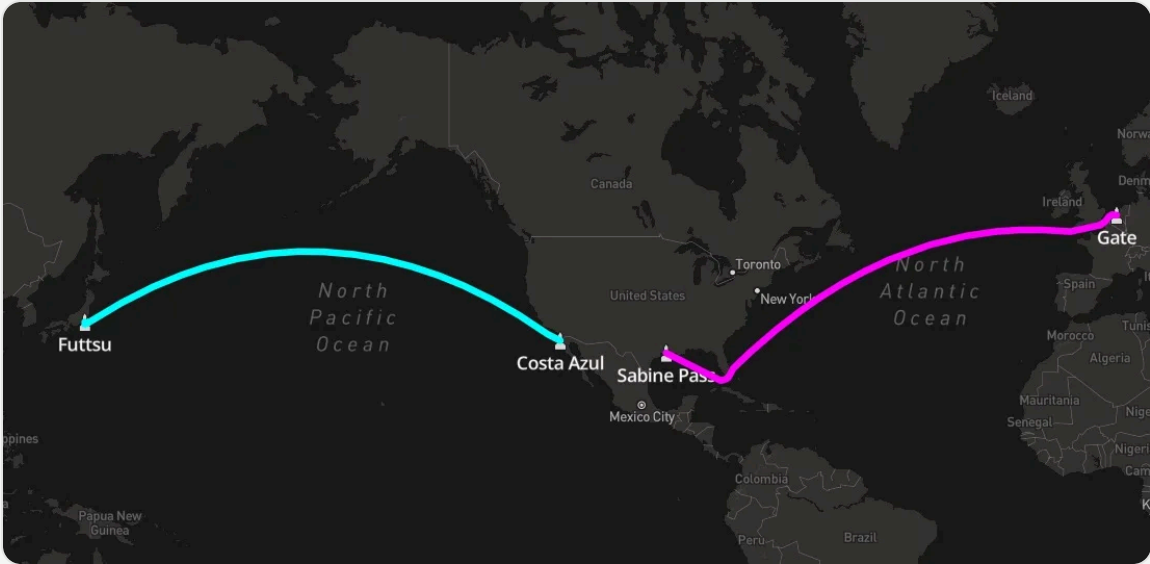
Diversification here is not an insurance premium, it pays before any crisis. Twenty Costa Azul cargoes lift the book by \$74.8M with canals open, \$83.1M with them closed, and cut the drawdown from \$20.4M to \$12.2M.

# Straight from the engine

— The re-optimised routes under a double closure



US GULF ONLY · CANALS CLOSED · FUTTSU THE LONG WAY



WITH COSTA AZUL · CANALS CLOSED · ASIA VIA THE PACIFIC



# Takeaways

— What Pacific supply buys, and what it does not



## **Mexico pays before any crisis**

+\$74.8M with canals open: the diversified book earns more in every state, not just the stressed one.



## **The closure hit nearly halves**

-\$12.2M against -\$20.4M under a double closure, because Costa Azul reaches Asia without touching Panama.



## **The US-only book concentrates canal risk**

Under closure it retreats to Europe almost entirely; Asian demand is served by just two long-way cargoes.

# 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.

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# Quantify what diversification buys your book

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