



Greener Shipping Summit 2026

Geopolitics, IMO NZF, New Technologies are now an emissions driver

 **ANGLO-EASTERN**

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Executive summary: What leaders need to know



Geopolitics → Emissions

Rerouting and volatility have fundamentally altered operational baselines.

Red Sea/Cape diversions added **30-50%** to voyage times.

Security risks now directly drive **fuel burn & carbon intensity**.

Impact: Operational



IMO NZF → Convergence

A unified global framework is emerging to counter regional fragmentation.

Global fuel standard + pricing mechanism (Basket of Measures).

Target entry into force by **approx. 2027** to align global rules.

Impact: Strategic



Tech → Compliance

Technology choices are now defined by regulatory compliance value.

Win now with **no-regrets efficiency** (wind-assist, optimization).

Prepare for scale with **green fuel options** aligned to NZF.

Impact: Financial

Chokepoints & conflict: Red Sea/Cape case






30-50%

Transit time increase via Cape of Good Hope

Source: CSIS Analysis (2024)

Operational Implications

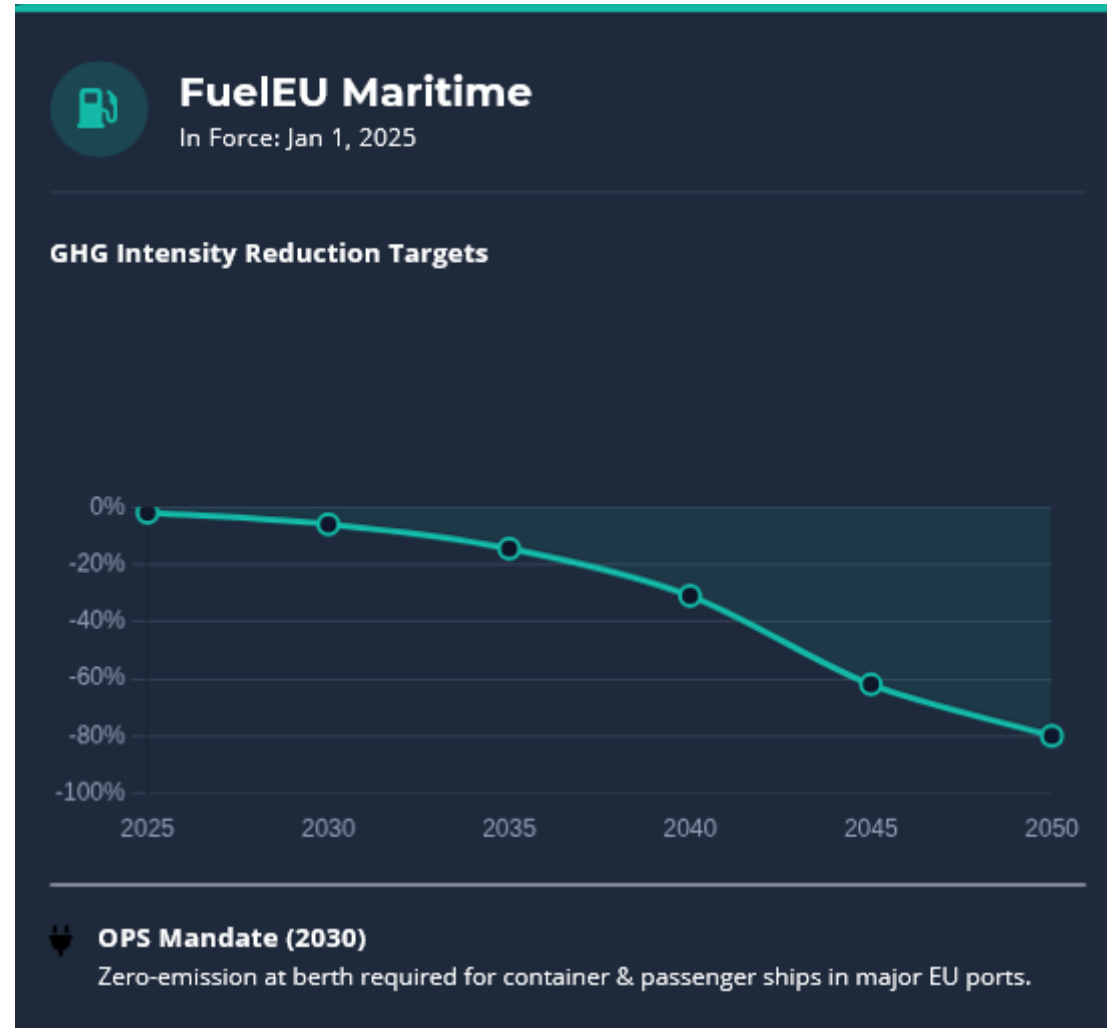
-  **Fuel Burn:** Significant increase in bunker consumption per delivered cargo.
-  **Costs:** Surging insurance premiums and inventory carrying costs.
-  **Emissions Rebound:** CO2 intensity spikes due to longer distances and higher speeds to recover schedule.

Strategic Takeaway:

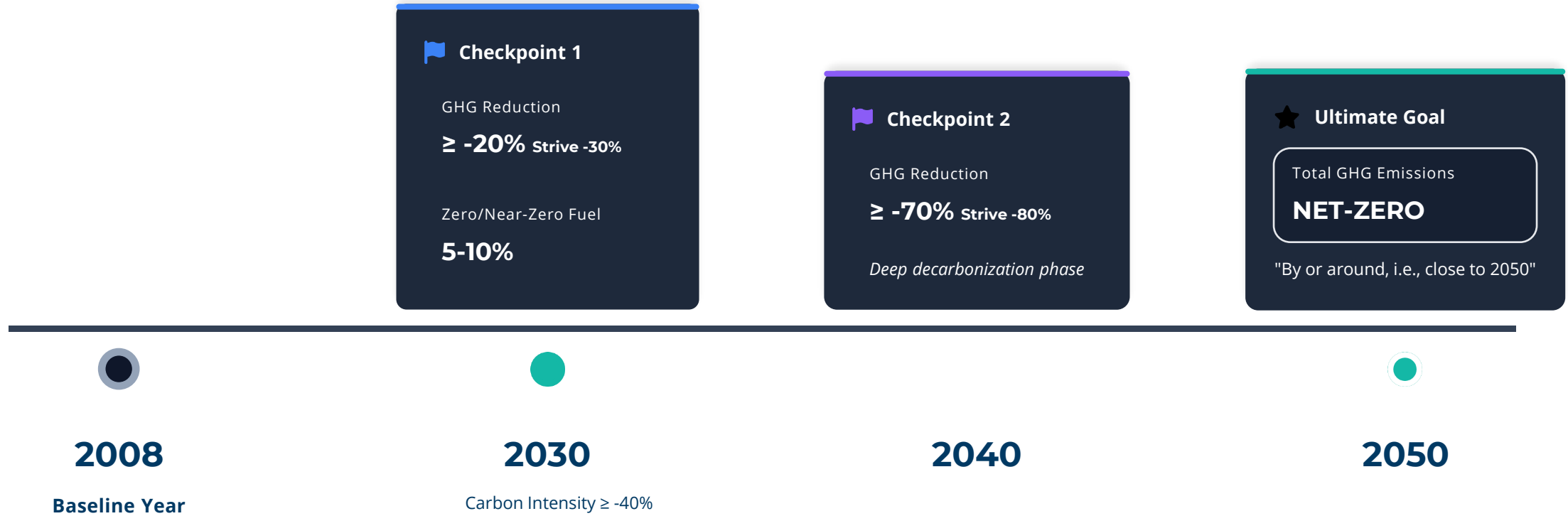
Security events are no longer just "disruptions"—they are core operational and emissions variables.



Fragmentation risk: EU measures accelerate



IMO 2023 GHG Strategy:



IMO Net-Zero Framework (NZF): How it works



Element 1: Technical Goal-Based Fuel Standard

- > Mandates phased reductions in the GHG intensity of marine fuels (Well-to-Wake).
- > Increases stringency over time (e.g., every 5 years) to force uptake of zero/near-zero fuels.
- > Provides long-term certainty for fuel producers and shipowners.



Element 2: Economic GHG Pricing Mechanism

- > Puts a price on GHG emissions to close the cost gap between fossil and green fuels.
- > Generates revenue for "Just Transition" (R&D, SIDS/LDC support, reward mechanisms).
- > Likely form: Levy, Feebate, or Cap-and-Trade (Levy most discussed).



Interconnection: Why geopolitics shapes NZF design



Energy Security

- 1 **Uneven Fuel Availability:** Green fuels require vast renewable capacity, creating new supply chain dependencies.
- 1 **Port Resilience:** Bunkering hubs must be politically stable and technically capable of handling toxic fuels (ammonia).

Supply Risk



Equity & Just Transition

- 1 **SIDS & LDCs Impact:** Disproportionate transport cost increases for remote, import-dependent nations.
- 1 **Revenue Disbursement:** Political battle over how levy funds are redistributed to ensure fairness.

Political Risk

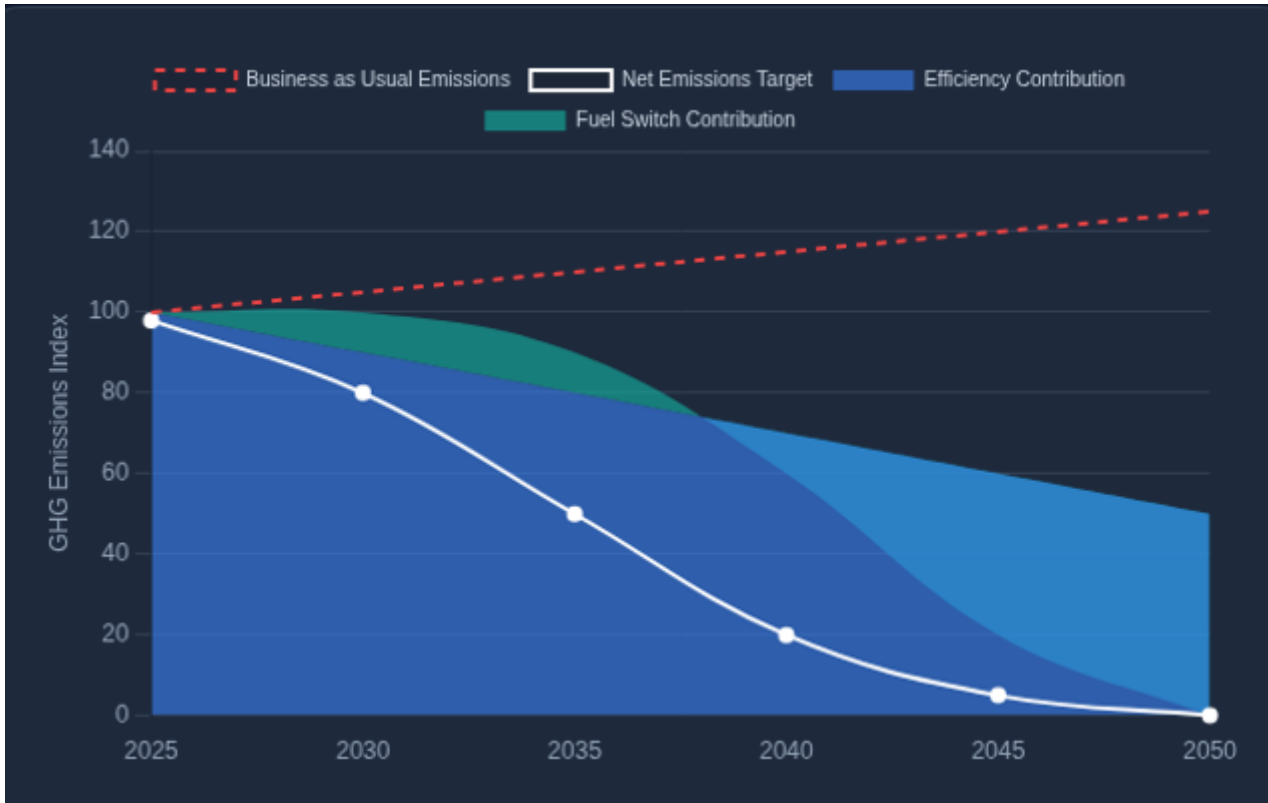


Carbon Leakage

- 1 **Regulation Shopping:** Ships rerouting to avoid regional carbon pricing (e.g., stopping just outside EU ETS zones).
- 1 **Global Alignment:** Only a universal IMO framework prevents a "patchwork" of conflicting regional rules.

Market Risk

Technology as a compliance pathway



1. Efficiency Measures

- Voyage optimization & weather routing
- Hull/propeller upgrades & air lubrication
- Wind-assist propulsion (e.g., Rotor Sails)**



2. Fuel Switch

- Certified lower-lifecycle-GHG fuels
- Adherence to IMO LCA Guidelines (WtW)
- Bio-methanol, e-Ammonia, Green Hydrogen



3. Key Enablers

- Onshore Power Supply (OPS) readiness
- Digital MRV for compliance reporting
- Crew safety training for toxic fuels

Building the portfolio (now vs scale-up)



Near-Term

- ✓ **Operational Efficiency:** Speed optimization, hull cleaning schedules, weather routing upgrades.
- ✓ **Retrofit Pilots:** Wind-assist installations (Rotor Sails) on suitable bulk/tanker routes.
- ✓ **Regulatory Mgmt:** EU ETS hedging strategy & FuelEU pooling partners identified.

Capital Logic

"No-regrets" efficiency investments with <3 year ROI. Focus on reducing OPEX/ETS liability immediately.



Scale-Up

- ✓ **Fleet Renewal:** Ordering methanol-capable dual-fuel tonnage (compliance-ready).
- ✓ **Supply Chain:** Securing green fuel offtakes & bunkering MoUs in key hubs.
- ✓ **Infrastructure:** OPS readiness for all newbuilds; participating in green corridor consortiums.

Capital Logic

Strategic CAPEX staged by NZF certainty. Commit to assets that retain value in a high-carbon-price world.



1



Operationalize Geopolitics

- > Integrate route risk scenarios into emissions forecasting.
- > Adjust inventory buffers for potential chokepoint disruptions.
- > Map fuel supply chain dependencies to political stability.

2



Build NZF Compliance Model

- > Model cost impact of fuel GHG intensity targets vs. levy scenarios.
- > Stress-test fleet OPEX against projected carbon prices (\$50-\$200/t).
- > Evaluate 'pooling' opportunities under FuelEU and NZF.

3



Strategic Investment

- > Execute "no-regrets" efficiency retrofits (e.g., wind-assist) immediately.
- > Secure scalable fuel partnerships (offtakes) for 2027+ needs.
- > Collaborate on green corridor pilots to de-risk technology.



"Success in 2026 requires merging the COMPANY into one unified brain."