

Descarbonización y el Impacto en los envíos / Decarbonisation and the impact on shipping

08 March 2023

Conferencia Anual Marítima CAM-2023

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# **About Drewry: Maritime Research and Consulting Services**

- **Drewry** is the leading international provider of research and consulting services to the maritime and shipping industry
- Founded in **1970**: More than **50** years continuously charting and assessing the world's maritime markets
- More than **70** FTEs and **30** associates serving clients from offices in London, Delhi, Shanghai and Singapore
- O4 Services divided through **four** business units:

Maritime Research Maritime Advisors Supply Chain Advisors Maritime Financial Research







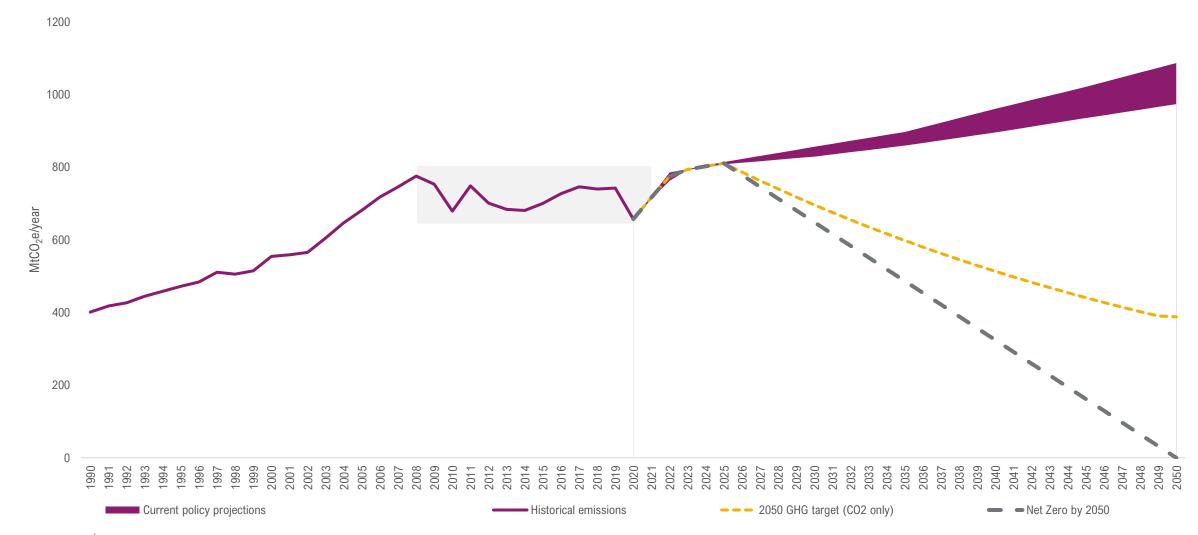
# **AGENDA**

- 1. Decarbonisation The past decade
- 2. The race to decarbonise
- 3. The switch to alternative fuels
- 4. Regionalisation of regulations
- 5. Long term changes



# **Emissions and IMO targets**

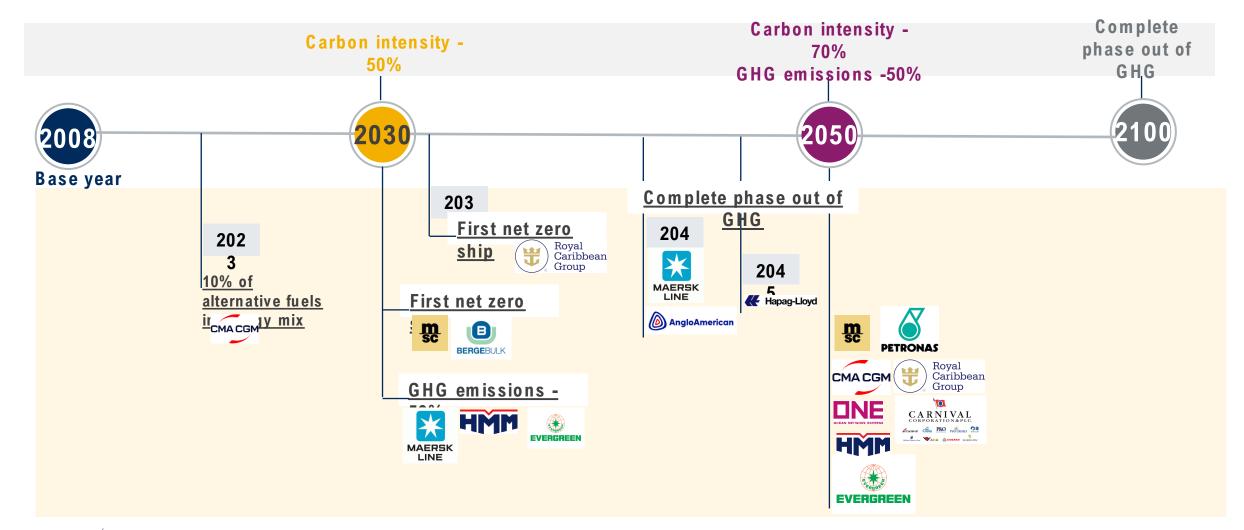
Growing consensus that current policy measure are inadequate; greater policy ambition is needed





# Self-imposed targets significantly surpass IMO targets

Financial motivation is and will drive rapid decarbonisation efforts





# **Current orderbook – conventional fuels vs alternative fuels**

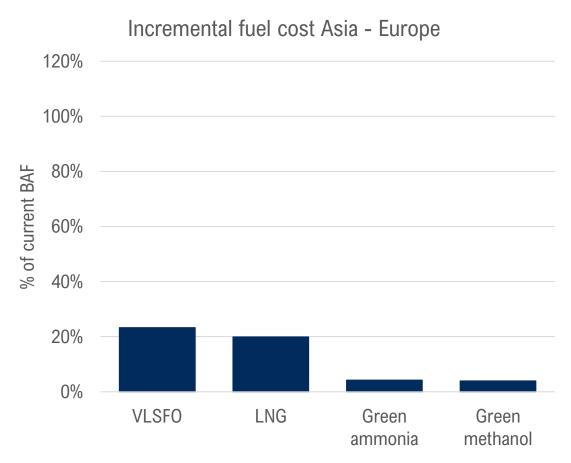
Segments will not move in tandem - Liner shipping to front-run the tramp segments

	Туре	Carbon reduction kg CO <sub>2</sub> /kWh less than VLSFO*	Likely cost multiple to VLSFO**	Percentage of orderbook (number of ships), sectors	Orderbook outlook
Reduced emissions	IF0380 VLSF0	n/a	n/a	17% of Cruise ship orderbook 20% of PCC orderbook 60% of Container ship orderbook	Peaked in 2020, share of orderbook has been on a decline since
	LNG	25% - 30%	0.8x - 2.5x	80% of PCC orderbook is duel fuel LNG/VLSFO 72% of Cruise ship orderbook is duel fuel LNG/VLSFO 30% of Container ship orderbook is duel fuel LNG/VLSFO	Likely to peak by mid 2020s
	Methano	10% - 15%	1.5x - 2.5x	10% of Containership orderbook is duel fuel Methanol-VLSFO 5% of Cruise ship orderbook is duel fuel Methanol-VLSFO	Likely to peak by mid 2030s
	Biofuel	0% - 30%	1x - 4x	none	
Zero emissions	A m m o n i	i 90% - 100%	1.7x - 3.4x	3 passenger ferries on order	Test and use case now-2030, Likely quick ramp up 2030 onwards
		90% - 100%	2x - 4x , is tank-to-wake	4 ships on order to test dual fuel use case Cruise ships eGarniya, Goripe iy Royah Garibbeans MSG the estimated cost range	е.



# Regionalisation of regulations

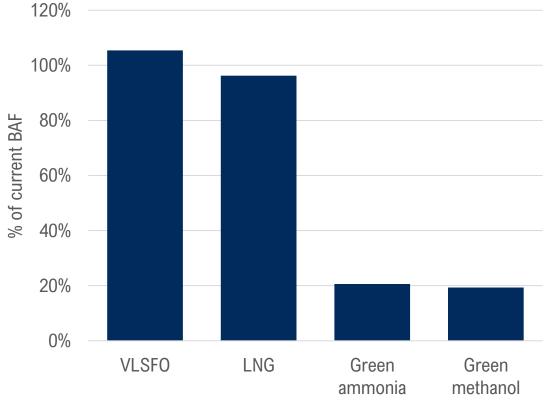
### ...drive greater regionalisation of trade





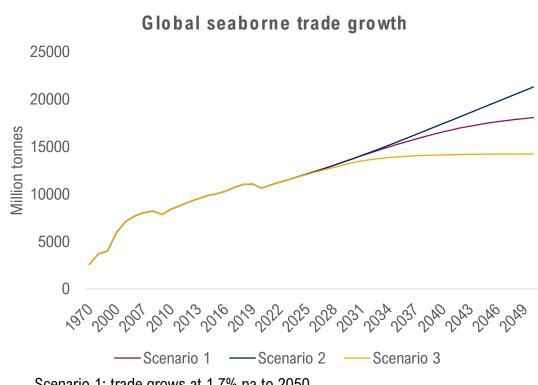


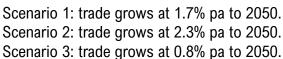
# Incremental fuel cost Intra-Europe trade



# Likely changes in trade structure

Decarbonisation is not just about the future fuel mix, will shape trade and fleet profiles





#### Global vs regional trade





# **Conclusions**

- Financial motivation is driving rapid decarbonisation efforts
- Multispeed varying / diverse pathways for different segments
- ✓ Decarbonisation is more than just fuels, shaping sectors, industries and economies future trade could be very different





# Thank you: Questions & Answers CAM Conference 2023 Presenter: **Dinesh Sharma** – Director, Drewry Maritime Advisors Maritime Research | Maritime Advisors | Supply Chain Advisors | Maritime Financial Research



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# **Drewry's Carbon Tax and New Fuel Forecast Report**





**Identify suitable providers** with whom to work on sustainability plans: Understand the main sustainability strategies and investment plans of major ocean carriers and forwarders - and who the leaders are



**Understand the impact** of new fuel types and fuel taxes: Inform internal stakeholders/management about mediumterm container freight cost increases resulting from regulatory fuel changes





Carrier Decarbonisation Guide (PDF Report)

Overview and comparison of the carrier fleet / Orderbook decisions as well as their carbon targets / roadmap



Carbon Tax and New Fuel Forecasts (MS Excel)

- Forecasted incremental cost (USD per TEU), per trade route and per Service of the different fuel alternatives (LNG, Methanol and Green Ammonia) and the EU's ETS system.
- · Method and assumptions for full visibility

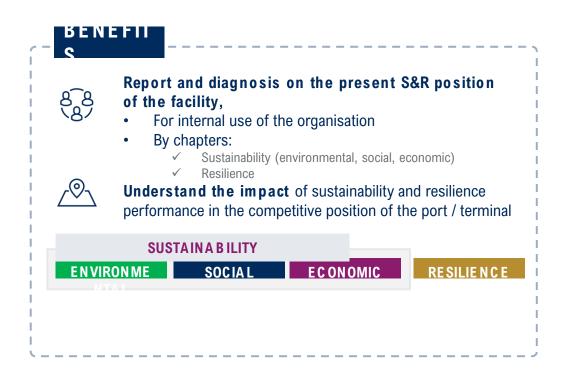
For further information please contact

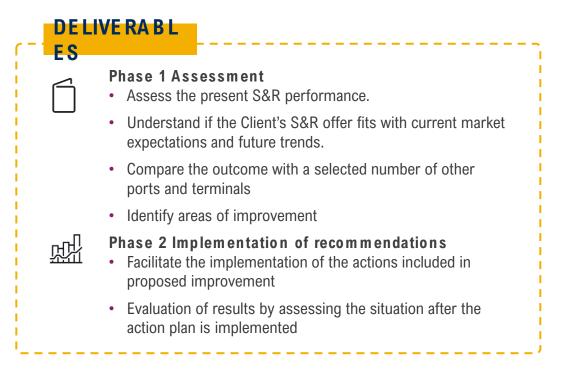


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# **Drewry's Sustainability and Resilience Advisory Service for Ports**







#### A CUSTOMISABLE SOLUTION FOR GLOBAL SHIPPERS/BCOs

Best placed to meet the challenges of today's market... and better prepared for the future.

#### TECHNOLOGY & ANALYTICS

3

- Cutting-edge, bid management platform (Freightender partner)
- Proprietary AIS analytics
- Advanced analytics (Power BI dashboard)



#### MARKET INTELLIGENCE

- Freight cost benchmarking via Drewry Benchmarking Club (spot and contract ocean freight rates)
- Robust market forecasts
- Container capacity insights
- BAF implementation strategy



#### BEST PRACTICE ADVICE

- Carrier relationship management
- 'Shipper of choice' workshops
- Bid management
- Contract appraisals and design
- Sustainability/decarbonisation



Our fully customisable solution, combines cuttingedge technology and analytics, with in-depth market intelligence and best practice advice.

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