

CO₂NTROL

Collaborative platform for shipping container operators to take control of CO₂ emissions by route optimisation

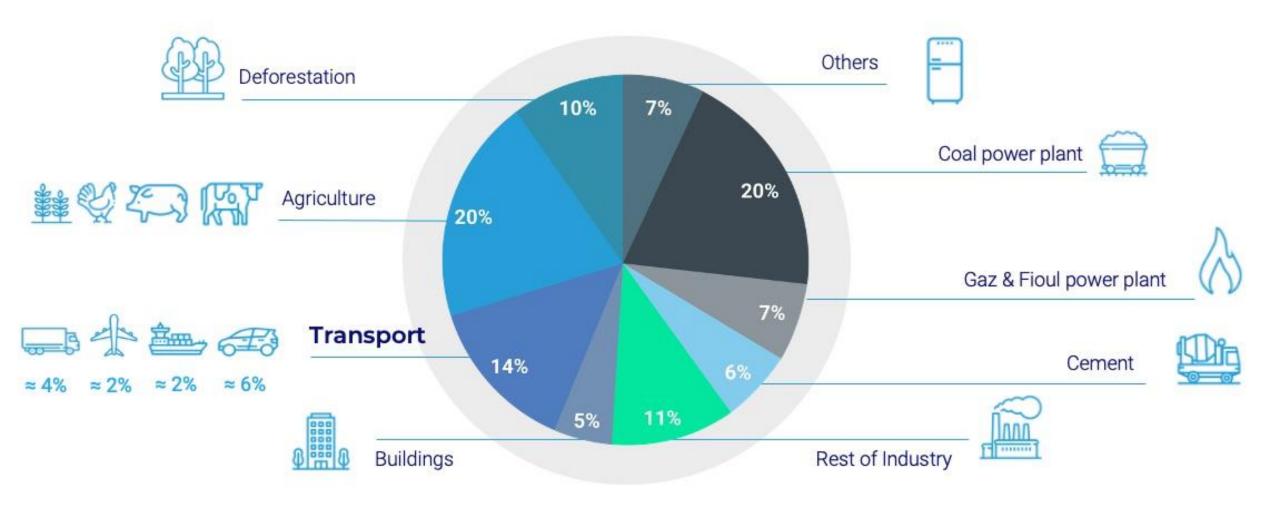








Sea, air and inland transportation: 8% of CO₂ emissions

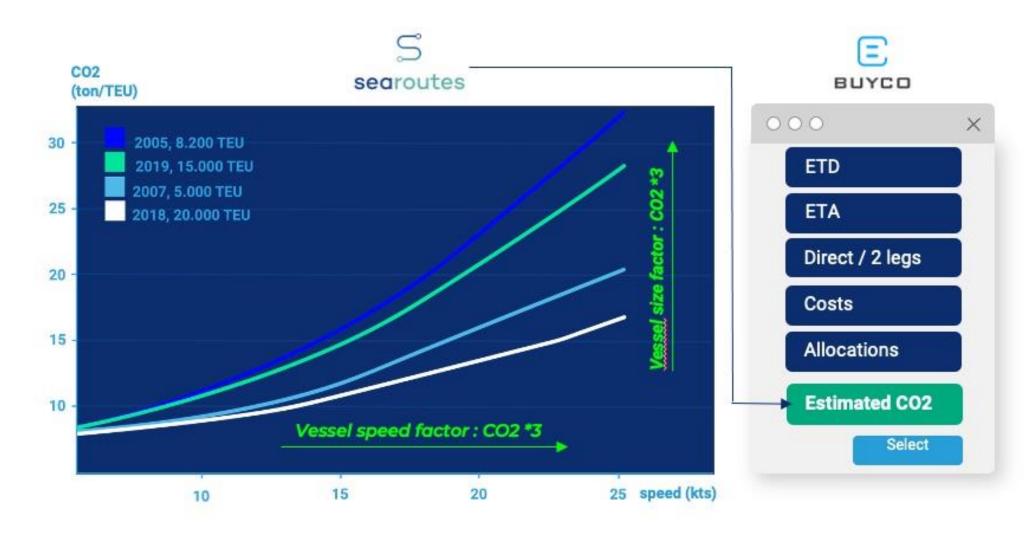








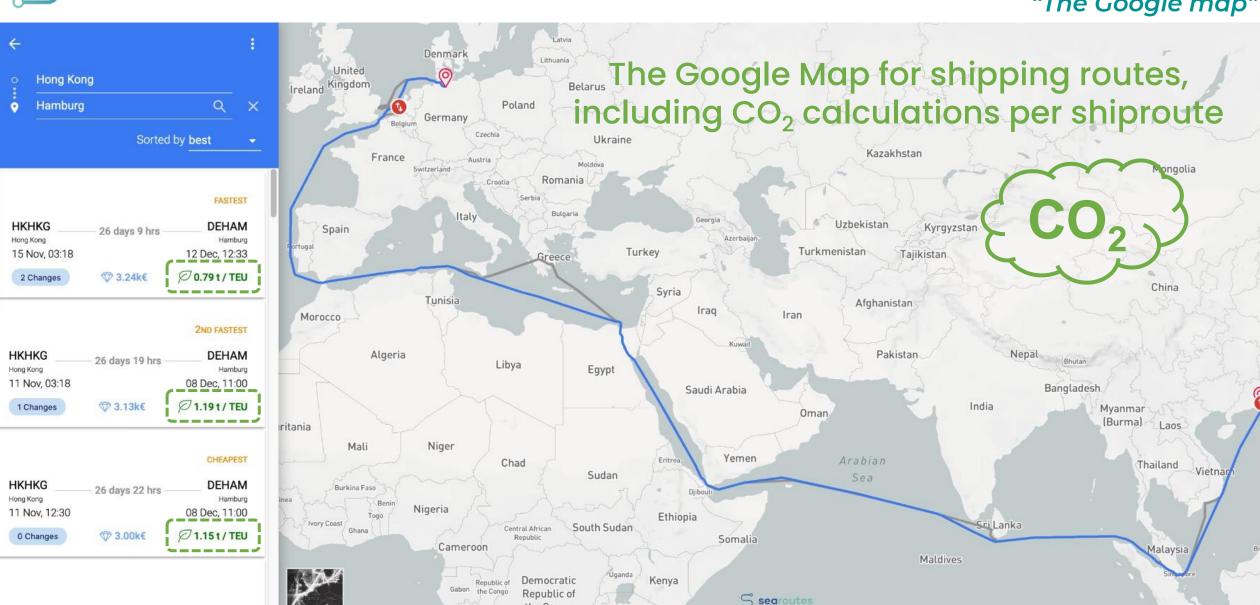
Select the best CO₂ emission vessels at each booking depending on vessel's engine, size, schedule and speed







"The Google map"





Regulation pressure for the shipping industry

IMO - ONU IMO

2023: Short term measures EEXI/CII per vessel

2030: - 40% of CO2 per TEU-KM vs 2008

2050: - 70% of CO2 per TEU-KM vs 2008

- 50% GHG in Tons 2008

EUROPEAN GREEN DEAL



2022: Inclusion of shipping in the EU ETS

2030: - 40% of CO2 per TEU-KM per vessel vs 2018

2050: EU Carbon neutral for all sectors

Applicable to own and chartered vessels

WHAT DOES IT MEANS FOR THE SHIPPING INDUSTRY

- Vessel power limitation
- Potential speed reduction
- Vessel retrofit or new design for efficiency optimization
- Use of low carbon alternative fuels (Bio fuel ,Bio LNG,...)
- Fleet deployment and network

Potential nonrenewal of navigation certificate incase target not achieved



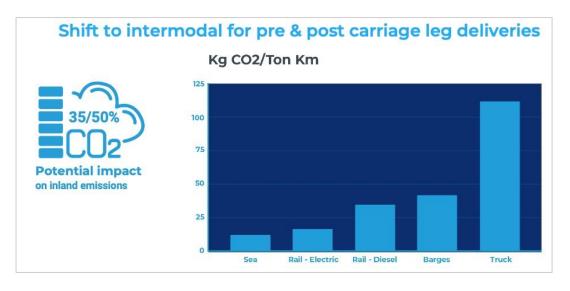


CO₂NTROL maximizes the visibility of all other approaches













SEA-MODE use case: New York - Busan			
	Other solutions	Searoutes Build a greener supply chain	
Schedules	No schedule - Direct	CMA - CGM Manhattan Bridge	MSC Emerald
Distance (km)	18764.52	22671.23	25735.56
Default Vessel	CC Suez Max	CMA CGM Magellan	CPO Bremen
Design speed	48.9	44.6	47.4
Speed (km/h)	30.2	21	26.1
TEU	7000-14500	13344	8580
Co2/TEU (t)	1.27	0.7361644011	1.518418056

ADD THE CO₂ EMISSION CRITERIA TO THE BOOKINGS. Compare services for the same trade lane

PORT SELECTION can make a CO2 difference on your d-2-d journey



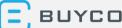




Mundra (India) -> Aschaffenburg (Germany) via Marseille Fos: 219,1 kg/t CO₂ emissions

Mundra (India) -> Aschaffenburg (Germany) via Antwerpen: 225,6 kg/t CO₂ emissions

Mundra (India) -> Aschaffenburg (Germany) via Hamburg: 249,5 kg/t CO₂ emissions





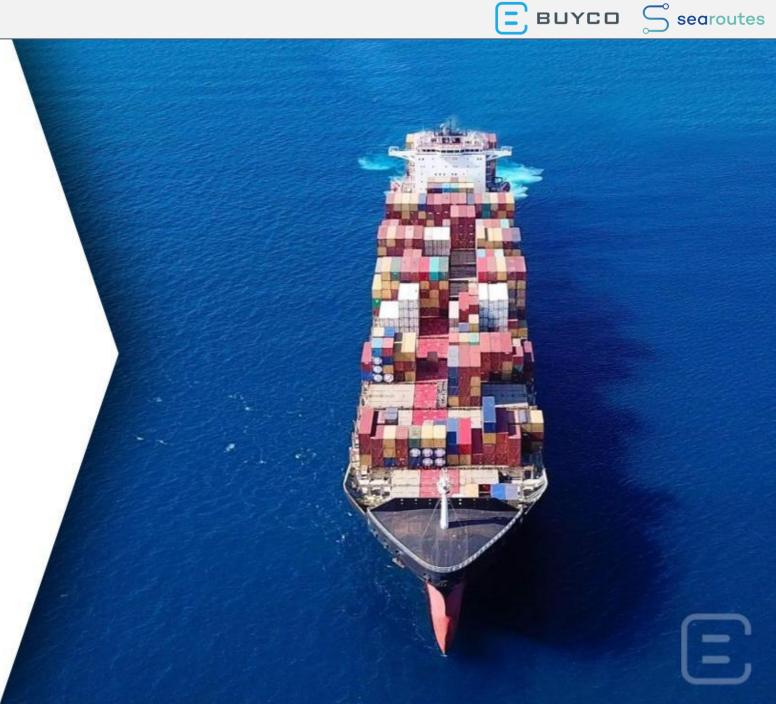








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