



CO2 emissions: an opportunity for shipping companies?

Eurosif/UKSIF shipping event:

“Shipping: an industry exposed to potential liabilities and opportunities under regulatory regimes?”

Henderson Global Investors

London, 12 March 2009

Dr Andre Stochniol, Founder, London, UK

andre@imers.org, +44 7809 764 894

1. Current mechanisms to finance climate change adaptation in developing countries are inadequate, both in scale and design

- The financing gap is huge, circa 100:1
 - Tens of \$billions are needed annually
 - Available total: \$0.4bn

Yet the poorest countries are most vulnerable, will be hit hardest by climate change and did not create the problem



2. International shipping CO2 emissions are outside of the Kyoto Protocol

- x2 aviation emissions
- Significant and rapidly growing
- Attempts to address them have failed
- Regulation needs to comply with the differentiated climate regime (CBDR)
- Global and complex

Example:

How to attribute ship's emissions:

- Swiss owned
- Flying Liberia flag
- Chartered by Danish company
- Leaving Saudi Arabia
- Cargo for NY, and Shanghai
- Via international waters

... Opportunity for One Solution (supra-national)

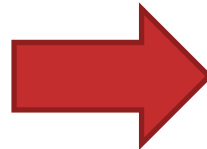


- International shipping CO₂ emissions would form one emission bubble (no allocation to countries)
- Ships would be liable to pay a levy on fuel for carrying goods to:
 - Rich countries only: @100% (rich = Annex I countries)
 - Poor countries only: 0%
 - Both to rich & poor: 60%, on average
 - Based on % of goods carried to rich countries annually
 - Enforcement in Annex I ports: pay up 100% or prove you should pay less
- Level of levy would be determined by an emission cap and the market carbon price (cap-and-levy; by a formula not a political body)
 - Levy paid to the central ship account - bypassing national coffers!
 - Based on already compulsory fuel receipts
 - **100% of revenue generated goes to climate change**

- Worldwide, the share of goods transported to Annex I is **60%**
 - Day 1 of scheme: 60% of maritime emissions covered, with an ambitious emission cap e.g. **20% emission reductions** for Annex I (by 2020)

- **Easily Affordable:**

- Marginal cost: just +0.1% on import prices to Annex I (**\$1 per \$1,000**)
- No impact on imports to non-Annex I



- **Significant Impact:**

FUNDS pa*	2013
Mitigation	2.5
Adaptation	2.5
Technology	1

* In \$billions per annum

TOTAL: \$6bn+

- A central, supra-national differentiated approach would:
 - Resolve the conundrum of reconciling the need for Global rules (as per the IMO) with Differentiated responsibilities (as per the UNFCCC)
- Its implementation would:
 - Provide an effective centralized system rather than patchwork of multiple variants for different flag states
 - Be future-proof, by being automatically compatible with any CC regime as it allows taking emission deviation commitments, and similar
- Importantly, it would create a new governance to effectively address emissions that are inherently beyond national jurisdictions
 - Legal under international laws and rules (UNCLOS, WTO, GATT; would use IOPC Funds as the precedent for direct collection of funds)

- Hassle free solution for CO2 emissions with minimal administration costs
 - No allowances to manage, no individual cap to comply with, services provided, no set-up costs, compliance easily verifiable
- No impact on international competitiveness (level playing field)
 - **Equally applicable** to all vessels **irrespective of flag** they fly **and nationality** of the ship-owner
- Stimulation of innovation, investments in R&D, and in infrastructure
- **Increased cash flow** (EBIDTA) as a result of reduced delays, improved operations and reduced fuel (especially to/from developing countries)
- Reduced risk of multiple regulations
- **Benefits of better image** (clean transport, social responsibility)
- Increased demand (with increased trade and development)

Climate change action makes good business sense

- Addressing the financing gap & CO2 emissions is an opportunity:
 - A differentiated levy is equitable, clear, predictable and effective
 - By being collected centrally provides 100% payout to climate action
 - In contrast to cap-and-trade, it can be rapidly and cheaply implemented
 - Neither large bureaucracy nor complex reporting is required
 - It is underpinned by existing law and trade rules
- From our experience, it still requires:
 - Proactive approach and leadership to scale up (*including finance*)
 - Practical solution demonstrators to convince sceptics
 - Mobilization of various stakeholders
- Shipping industry and investment community should pull for a global scheme for shipping CO2 emissions, rather than delay it

Details: www.imers.org



Back-up slides

Executive Summary and Examples

- A technically sound and politically acceptable levy on fuel for international shipping, which differentiates responsibilities between developed and developing countries
- Applied worldwide, collected centrally – bypassing national coffers – raising \$6bn+ annually for climate action

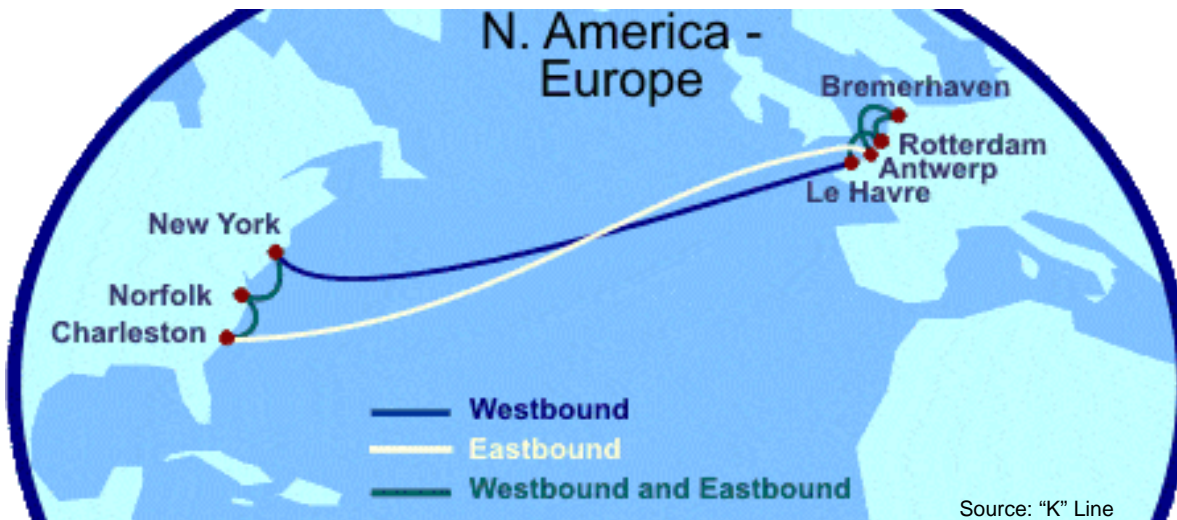
“It is one of the least controversial and most effective ways to generate significant additional climate change funding”

Three Examples

<u>Vessel</u>	<u>Route/Voyage</u>	<u>Cargo Destination</u>	<u>Levy %</u>
---------------	---------------------	--------------------------	---------------



- | | | | |
|--------------|--------------------------|--------------|---|
| 1. Tanker | Persian Gulf → Rotterdam | Annex I (A1) | 100%
» on the entire fuel, incl. the ballast leg |
| 2. Bulk | Australia → China | non A1 | 0% |
| 3. Container | N. America ↔ Europe | A1 | 100% |

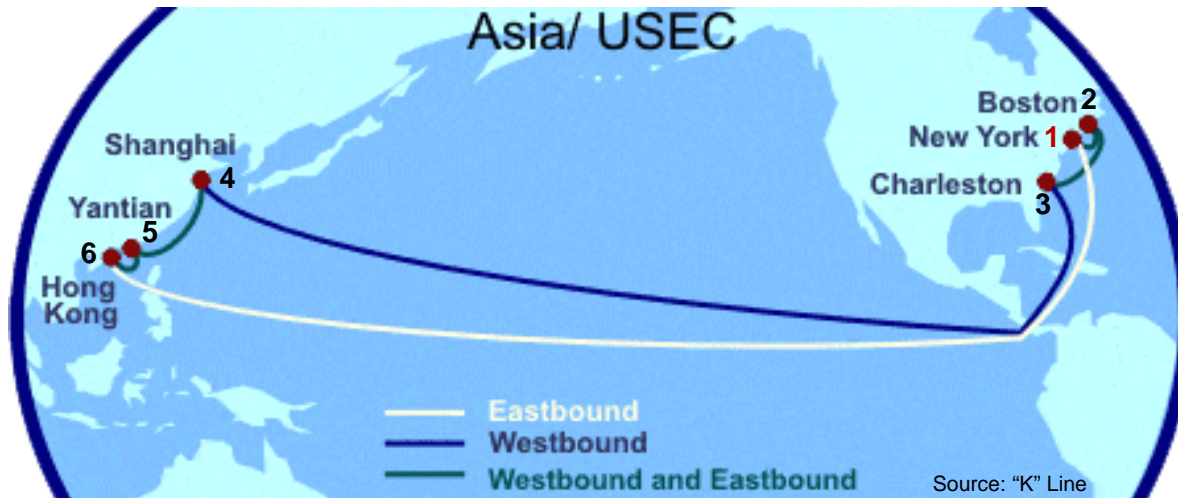


Equally applicable to all vessels irrespective of flag they fly and nationality of the ship-owner

Multiple Destinations

(1 statistical ratio needed to qualify for a lower payment)

Vessel	Route/Voyage	Cargo Destination	Levy %
Container	Asia – US (East Coast)	A1 & non-A1	variable



» Based on a ratio of delivered containers to A1 (% of full containers unloaded/ transported to A1 countries; the final destination counts)

EXAMPLE Ports	Number of full containers (TEUs) unloaded/transported to: <i>(illustrative)</i>		
	A1	non-A1 (incl. trans-shipments)	TOTAL
Asia	200	2,000	2,000
US	2,800	-	3,000
Total	3,000	2,000	5,000

A1 cargo ratio: **60%** (i.e. emission payment = 0.6 x fuel used x levy level)