

XIV Interdisciplinary Seminar on Climate, Energy and Sustainability: Oceans Special Edition

25 April 2024

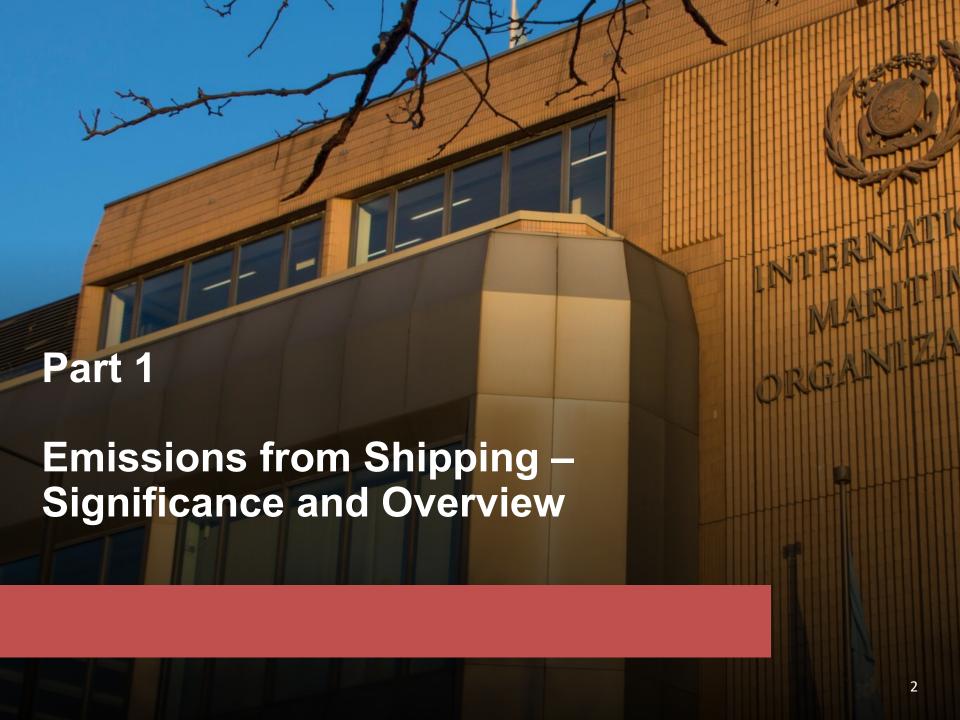
Faculty of Law, University of Copenhagen



Developments, Barriers, Prospects of Mitigating Shipping's Impact on Climate Change at the IMO: A Diachronic Approach

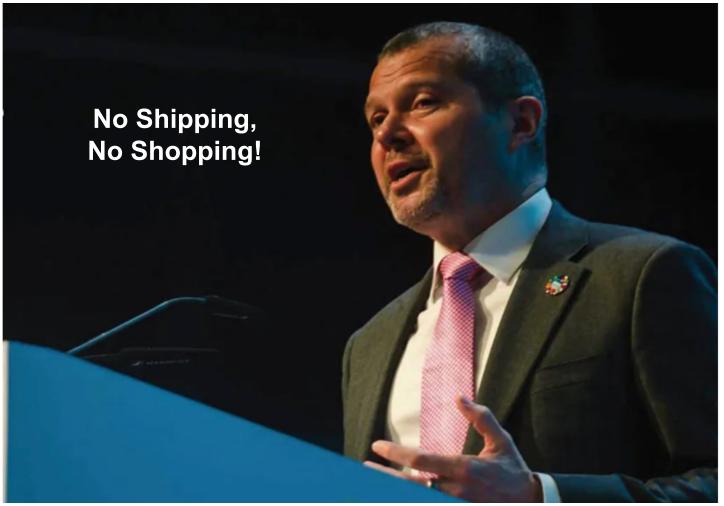
Joel Ong

Centre for International Law National University of Singapore



Emissions from Shipping





International climate change (CC) regime



- The Big Debate over who regulates ship-source pollution of the atmosphere?
 - IMO regulates international shipping with regard to safety, protection of the marine environment (and later security).
 - CC regime regulates national emissions.
 - Who should regulate air emissions/pollution from commercial ships?

Overview



- 1. Past to Present: How has IMO's position changed over time?
- 2. How might future IMO measures look like?
- 3. Drivers, Barriers, Themes, Prospects for the Future

Part 2

Main Themes and Barriers



Findings



IMO responds to environmental pressure and chases technology

- Fuel emissions have been on IMO's agenda since 2000s, but it took the IMO
 14 years to implement legally binding measures in 2011.
- Idea of IMO GHG Strategy was first raised in 1998-2003, took 20 years to finalise the 2018 Strategy. Response to environmental pressures.
- In its 2023 Strategy, IMO responded to IPCC AR6 in 2022 to unanimously commit to **new heightened ambitions** (2x of 2018 targets and **Parisaligned**), including the adoption of a 2030 target for use of new technologies and alternative bunker fuels.

Driver: Industry



ICS and IACS are among the top ten submitters to MEPC

- Apr 2017: ICS submitted proposal with other shipping organisations for IMO to adopt 3 Aspirational Objectives for intl shipping:
 - Very similar to the GHG Strategy ambitions/targets

Driver: Industry



- Shipping industry influenced by Paris/EU ETS:
 - ICS Chairman, Esben Poulsson: "It is very important that IMO sends a clear and unambiguous signal...with numbers and dates...in the same way that land-based activity is now covered by government commitments under the Paris Agreement."

 ICS stated it wants IMO to remain in control of additional measures to address CO2 reduction by ships and to develop a global solution, rather than risk the danger of market-distorting measures at national or regional level.

Driver: Industry



July 2017:

- ICS, BIMCO, INTERCARGO and INTERTANKO made a detailed joint submission to IMO MEPC on possible contents of its GHG reduction strategy.
- "Industry proposes that IMO Member States the same States that are parties to UNFCCC Paris Agreement – should agree an initial objective..."
- "The global shipping industry has now come forward with clear proposals on how IMO can help it decarbonize...It's now up to governments...[so] IMO can deliver [a GHG strategy]..."

Theme: Market Based Measures (MBMs)



IMO responds to environmental pressure and chases technology

- In 2021: Energy efficiency is no longer enough as a solution for new climate targets. Shift to Adoption of New Fuels in late 2021 after COP 26.
 - Since 2009, MEPC 59 recognized that the envisaged technical/operational measures may not be enough and discussed possibility of use of MBMs such as ETS for maritime sector and creation of a fund, but could not get consensus due to CBDR.
 - IMO has now reintroduced discussions on economic measures (eg, levies).
 - But now framed as part of a basket of incentives to promote adoption of new fuels and/or technologies,
 - rather than a stand-alone penalty on emissions in the past where there
 were no substitutes to fuel oil.

Theme: Market Based Measures (MBMs)



- <u>Changed:</u> The institutional responsibility for maritime emissions has now been clarified for MBMs IMO is the organization responsible.
 - References to working <u>with</u> the IMO were taken out of Paris text
 - IMO took the lead on this in 2016 after Paris by setting a roadmap. New GHG measures are technology-driven. Increased environmental consciousness at IMO.
- <u>Unchanged:</u> Same issues on MBMs from 2013 were unresolved and resumed in 2016 but arises prominently today again 11 years later
 - CBDR principle versus. Equal / universal treatment at IMO (for eg, 'no more favourable' treatment as an international sector)
 - Allocating Responsibility for emissions: if a ship reflags to developing countries with weaker implementation?
 - Funds for transition?

Theme: IMO's Response to Environmental Pressures/Technology



• Changed:

Increased environmental pressure to 'net-zero' shipping: alignment with the
 Paris Agreement –Responds to its GHG Studies, and external CC developments
 includ. 2009 Copenhagen Conference, 2015 Paris, 2021 Paris 'Rulebook', etc.

- IMO Driving Technology: GHG strategy shifted from energy efficiency regulations to alternate technologies (eg. CCS and new fuels)
 - Efficiency measures alone are no longer viable, as shown by Third IMO Study of 2014
 - Alternative fuel/technology pathways are a necessity now.
 - Tremendous increase in ambitions/pace of technological development

Theme: IMO's Response to Environmental Pressures/Technology



- <u>Unchanged:</u> IMO's primary focus on economic impact and equity (developing states).
 - IMO collects data (Data Collection System, better GHG Studies)
 - IMO conducts Comprehensive Impact Assessment (economic costs and disproportionate impact to States)
 - Developing <u>standardized</u> emissions LCAs for setting goals-based standards
 - Solution Agnostic

Theme: Technology as a Driver of Progress



- <u>Changed:</u> How fuel technology is an enabler to break the political deadlock from 2030s onwards.
 - MBMs are now discussed not as a 'penalty' on fuel emissions, but as a way to promote transition to new fuels (MEPC 79/ISWG-GHG 13 in Dec 2022)
- 1. Nations with reliance or exports of hydrocarbons blue hydrogen fuels
- 2. Nations with **renewable energy green** fuels.
- 3. Nations with agriculture Biofuels
- 4. Developing nations new fuels provide less energy = more refuelling/bunkering
 - 1. Serve as new strategic ports (promise of economic development)
- 5. Developing nations especially SIDS are most at risk from climate change, and rely heavily on maritime trade
- 6. Developing nations get access to transition funds (proceeds from taxes)

Theme: Technology as a Driver of Progress



<u>Unchanged (Barriers):</u> Large developing nations eg. China, India may object to
economic measures to promote emissions technology (disproportionate reliance
on oil, incurring more taxes, CBDR concern as they did in 2008)

- Technology might move quickly, but IMO has to address any disproportionate impacts on States before universal adoption.
 - Any progress would have to be outside the IMO eg,
 - Unilateral measures (eg EU ETS),
 - Port State arrangements of green corridors,
 - Flag State's acceptance of 'alternative design' approaches based on class societies' rules, best practices and guidelines.



Thanks for your attention!

Joel Ong

Research Assistant, Ocean Law & Policy Programme

NUS Centre for International Law (CIL)

Email: joel.ong@nus.edu.sg

Website: cil.nus.edu.sg