

Diretoria de Portos e Costas

Low Carbon Marine - Future Challenges of IMO's Agenda : how rules can be applied?

IMO

Brazilian Maritime Authority committed to a sustainable future

Vice-Admiral Alexandre CURSINO de Oliveira Directorate of Ports and Coasts (DPC)





TOPICS

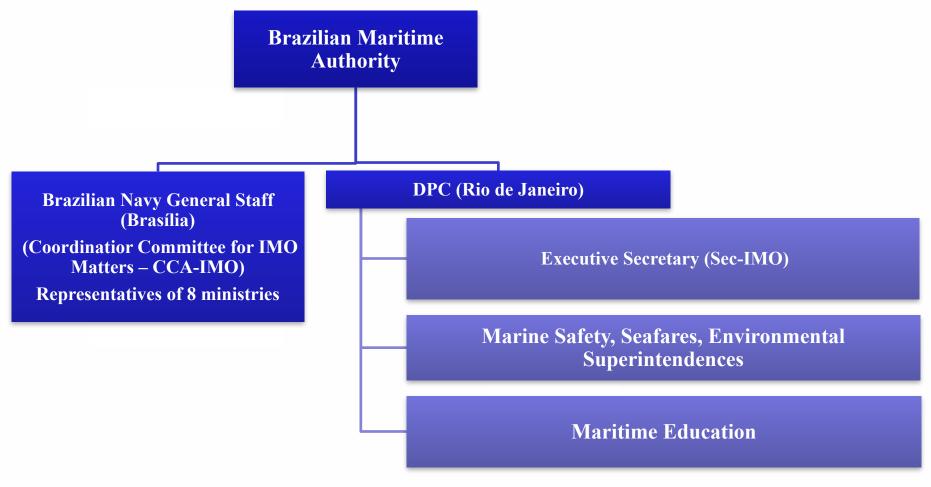
- ✔ Where is our future?
- Brazilian Structure for IMO matters
- IMO Strategy on Reduction of GHG emissions from ships
- International challenges
- Brazilian contributions
- Possibilities of cooperation Brazil & UK







Structure for IMO matters







IMO Strategy on Reduction of GHG emissions from ships

Levels of Ambitions

1. carbon intensity of the ship to decline through implementation of further phases of the **Energy Efficiency** Design Index (EEDI);

2. carbon intensity of international shipping to decline to **reduce CO2 emissions per transport work**, as an average across international shipping, by at least 40% by 2030, pursuing efforts towards 70% by 2050; and

3. GHG emissions to peak and decline as soon as possible and to reduce the total annual GHG emissions by at least 50% by 2050.





International challenges

□ Short-Term Measures

- Develop technical and operational indicators;
- Adopt a rating mechanism for ships energy efficiency

□ Mid-Term Measures

- Update standards to incorporate technological innovations, operational checks, and certification;
- Do not cause major distortions in the markets

□ Long-Term Measures

- Develop low and zero-carbon technology for fuels
- Develop engine, hull and propeller technologies for better energy efficiency
- Avoid disproportionate impacts on Small Island Developing States (SIDS) and Least Developed Countries (LDCs)



Brazilian Contributions

□ Short-Term Measures

- Fourth IMO GHG Study (consortium (FIPE/USP), Steering Committee and Group of Experts);
- Lectures on low-carbon fuel technology (CENERGIA/COPPE/UFRJ);
- Joined the Steering Committee to evaluate UNCTAD's work on the impact assessment on the States.

☐ Mid-Term Measures

- Integrates the working groups on carbon intensity; energy efficiency; and EEDI phase 4;
- ISWG-GHG 7/2/21 Proposal for an operational carbon intensity rating mechanism as a mandatory goal-based measure to reduce the carbon intensity of international shipping (Brazil and China).



Brazilian Maritime Authority proposals

Findings of the fourth IMO study.	Updates total shipping emissions.
Using Data Collection System.	Makes it unnecessary to request information from ships
Joint adoption of Technical and operational indicators.	Enables knowledge of the real energy efficiency of ships
Adoption of Rating Mechanism.	Contributes to the implementation and verification of the measures





Brazilian Maritime Authority thinkings		
Market-based measures.	Don't contribute to the use of zero- or low-carbon technology.	
Adoption of measures prior to their assessment in terms of impact on the states.	May hide the unacceptability of adoption	
Measures of absolute values rather than goal-based measures.	Don't allow flexibility in the adoption of the measures.	





Brazilian oil and gas industry and low-sulphur fuel

□ VLSFO production

- Start of supply April 2019;
- Petrobras sold 5.6 million/t of VLSFO;
- VLSFO supplied in 17 national ports.

Export 2020

- Marketed about 1.6 million tons of IMO bunker 2020 to Asia;
- Exported about 8.7 million quality fuel oil to formulate the IMO 2020 bunker.

Letter N° 7/2019 DPC



Possibilities of cooperation Brazil & UK

✔ Oil and Gas Industry

- prospecting and production of crude oil
- knowledge about marine fuels

✓ Share of knowledge

- Carbon-neutral maritime fuels
- Modeling

Efforts against environmental threats arising from maritime traffic



Environmental threats arising from maritime traffic

Oil spill incident on the brazilian coast

- · Unprecendented incident in the world
- . 5,300 tons of oily waste collected
- Maritime Authority/regional environmental agencies
- Proposed amendment to chapter V of SOLAS.



Brasil, 2019 Source: BBC News



□ Oil spill over Israel





Blue Amazon.

- The maritime commercial sector makes a huge effort to decarbonize.
- Brazilian Maritime Authority has an environmental commitment and intends to continue participating in this worldwide effort.
- International Cooperation and Support.







Diretoria de Portos e Costas



Mares e Rios seguros e limpos

Safe and Clean Seas and Rivers

Diretoria de Portos e Costas





Low Carbon Marine - Future Challenges of IMO's Agenda : how rules can be applied?

Brazilian Maritime Authority committed to a sustainable future

Vice-Admiral Alexandre CURSINO de Oliveira cursino@marinha.mil.br

THANK YOU!

IMO