Regulatory Aspects in the transition to Shipping Decarbonization



Candidate short-term measures

EEXI

CII

Enhancement of Initial Strategy set up in MEPC.304(72)

Candidate mid-term measures

Uptake of alternative low- and net zero-carbon fuels

National actions plans

Operational energy efficiency measures for both new and existing ships

New/innovative emission reduction mechanism(s),

Net zero-carbon fuels and technologies

Technical cooperation

Feedback mechanism to enable lessons learned

Candidate mid-term measures

Pursue the development and provision of net zero-carbon or fossil-free fuels Encourage and facilitate the general adoption of other possible new/innovative emission reduction mechanism(s).



MEPC72

Initial Strategy

MEPC 304 (72)

Short-term

Mid-term

Long-term



MEPC 76

2021 Revised MARPOL Annex VI

MEPC 328 (76)

SEEMP enhancement

EEXI

CII



MEPC 78

Revised & Additional regulations

MEPC 355 (78) Correction factors

& Voyage adjustments G5



MEPC 79 December 2022

Adoption of amendments MARPOL annex VI

Revision of initial IMO GHG Strategy

Development of Mid-term measures

Adoption of the Revised Procedure of assessing possible impact

on States of candidate measures

Development of Lifecycle GHG intensity of marine fuels guidelines

Proposals related to onboard CO2 capture

Revision of IMO-DCS



COP 26

Urgent reduction of

GHG outcome



Next to come

ISWG-GHG 14. March 2023

Initial Strategy will continue to be discussed

MEPC 80. July 2023

Revised Strategy is expected to be adopted at

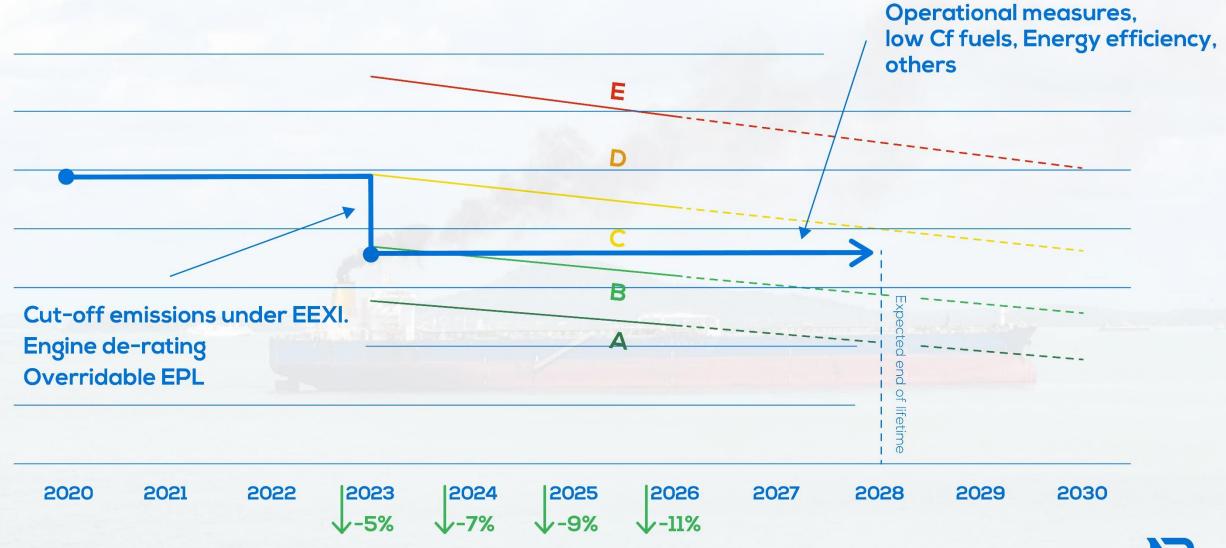


IMO's short-term measures

	Technical Technical	Operational
Newbuilds	EEDI	
Ships in operation	EEXI	CII rating Enhanced SEEMP



EEXI & CII expected Impact





2023

Short-term measures

-Adoption of Revised Initial Strategy for GHG



2023

2030

Short-term measures

-Adoption of Revised Initial Strategy for GHG

Mid-term measures

-The carbon intensity of international shipping to be reduced by at least 40-60%.

-The Lifecycle GHG emissions from international shipping to be reduced by at least 40%

-The energy used in international shipping to comprise at least 5 - 35% of zero/net - zero emissions



2023

Short-term measures

-Adoption of Revised Initial Strategy for GHG

2030

Mid-term measures

-The carbon intensity of international shipping to be reduced by at least 40-60%.

-The Lifecycle GHG emissions from international shipping to be reduced by at least 40%

-The energy used in international shipping to comprise at least 5 - 35% of zero/net - zero emissions

2040

Mid-term measures

-Energy used by international shipping to comprise at least 50-75% of zero or near-zero emissions

-Reduce CO2 and/or lifecycle GHG emissions of international shipping by 50 and 88%.



2023

Short-term measures

-Adoption of Revised Initial Strategy for GHG

2030

Mid-term measures

-The carbon intensity of international shipping to be reduced by at least 40-60%.

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Mid-term measures

-Energy used by international shipping to comprise at least 50-75% of zero or near-zero emissions

-Reduce CO2 and/or lifecycle GHG emissions of international shipping by 50 and 88%.

2050

Long-term measures

-Phase out to zero/net zero GHG/CO2 emissions at the latest and aim for a neutral fleet;

-Energy used by international shipping to comprise of at least 90% from alternative fuels.



Basket of Measures to Reduce GHG from international shipping

- 1 Short-term measures already agreed (EEXI and CII)
- Voluntary measures already agreed (Development of National Action Plans on GHG)
- Global fuel standards and support for uptake of low-carbon and zero-carbon fuels
- Market-based measures implementing a mandatory GHG Contribution



GHG Fuel Standard (GFS)

A standard methodology to quantify both Well-to-Tank (WtT) emissions and Tank-to-Wake (TtW)

Life Cicle Assesment Guidelines (LCA) & Fuel Lifecycle Label (FLL)



Emissions from production and transportation



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Emissions from production and transportation

Emissions from burning or using an energy source



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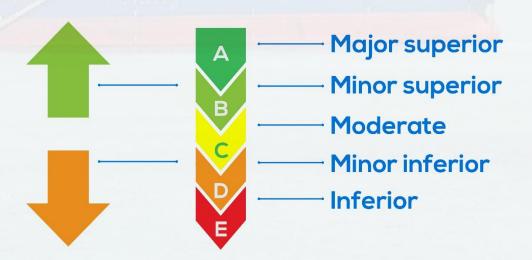
Emissions from production and transportation

Emissions from burning or using an energy source Not emmisions impact



Revenue raising concept candidate mid-term measures / IMSF&R (F&R)

- MBM: Emission Cap-and-Trade System (ECTS)
 or the funding/reward system based on ships performance
- The funding/reward benchmarking proposal establishes financial costs on ships rated as E or D under the CII framework and a variable reward for ships receiving A and B ratings under the CII
- GHG contribution, establishes a carbon/GHG price from emissions of international shipping. Flat rate contribution.







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