

From IMO 2020 to IMO 2030: How IMO's fuel standards support innovation in marine fuel production

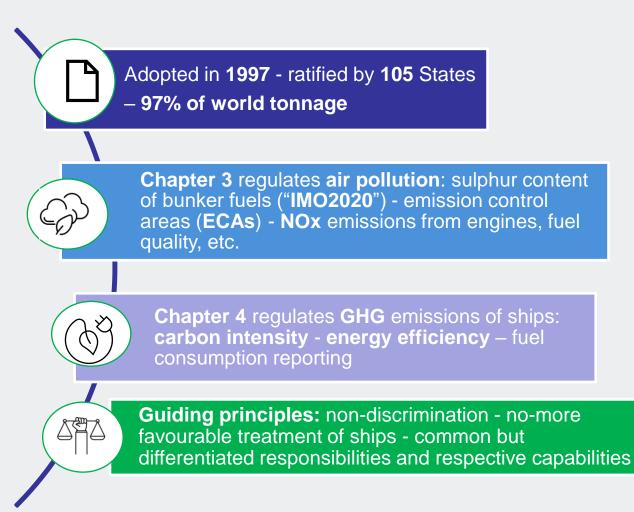
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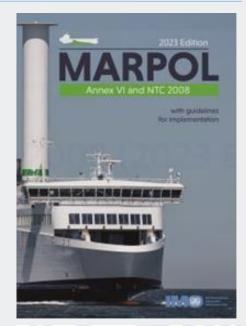
Mr. Harry Conway Chair, Marine Environment Protection Committee





MARPOL Annex VI sets global regulations for preventing air pollution from ships







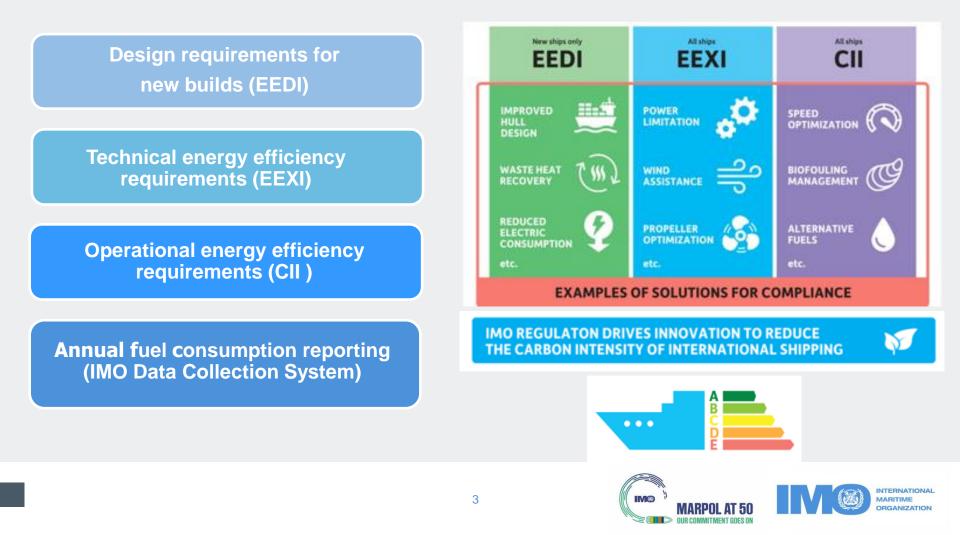




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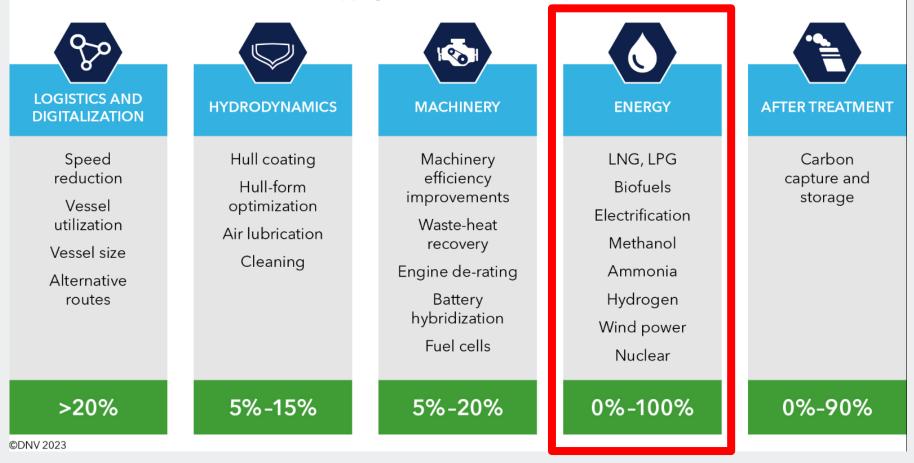
Existing IMO instruments are already driving innovation and energy efficiency improvements to reduce GHG emissions from ships...

IMO's existing framework of mandatory energy efficiency regulations



...However, to achieve IMO's ambitions, most of the GHG reduction effort will come from a change in the energy system of shipping

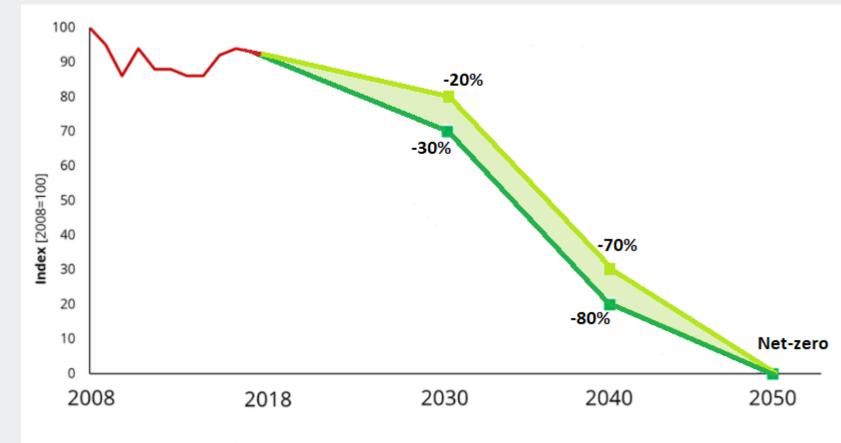
Solutions that can contribute to decarbonize shipping, and their GHG reduction potential







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2023 IMO GHG Strategy: outlining the pathway to net-zero emissions

historical emissions

absolute GHG emissions reduction: levels of ambition and indicative checkpoints (high)

---- absolute GHG emissions reduction: levels of ambition and indicative checkpoints (low)



2023 IMO GHG Strategy: accelerating the uptake of zero-carbon solutions by 2030

The 2023 IMO GHG Strategy contains the following level of ambition:

zero or near-zero GHG emission technologies, fuels and/or energy sources to represent at least 5%, striving for 10%, of the energy used by international shipping by 2030

This strengthened level of ambition :

- requires a significant deployment of zero- and near-zero GHG fuels
- requires rapid action from the shipping sector in the coming years
- incentivizes investments in the production and supply of zero-carbon solutions
- will inform the development of fuel standards and other similar regulations
- requires a definition of the term "zero or near-zero GHG emission technologies, fuels and/or energy sources"







A goal-based marine fuel standard in the basket of mid-term measures

MEPC 80 agreed to develop a basket of candidate measure(s), delivering on the reduction targets, comprised of both:

- a **technical element**, namely a goal-based marine fuel standard regulating the phased ٠ reduction of the marine fuel's GHG intensity; and
- an **economic element**, on the basis of a maritime GHG emissions pricing mechanism. ٠

The mid-term GHG reduction measures should:

- effectively promote the energy transition of shipping ٠
- provide the world fleet a needed incentive ٠
- while contributing to a level playing field and a just and equitable transition •

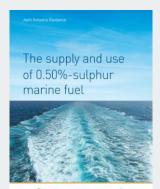
Comprehensive impact assessment and measure development timeline:



IMO has already developed fuel standards to reduce air pollution: lessons learnt from IMO 2020: global 0.50% sulphur limit in marine fuels

- I January 2020: The 0.50% global sulphur cap in bunker fuels - "IMO 2020" - took effect
- Reduction of max. 3.50% to 0.50% sulphur content resulted in a 77% drop of total SO_x emissions from international shipping = significant health benefits
- IMO developed a comprehensive set of guidelines to support Member States (flag, port and coastal States), ship owners, ports, refinery/bunker industry with preparing for IMO2020
- Excellent cooperation and preparation by IMO Member States and industry: key to successful implementation of IMO 2020
- Limited number of Fuel Oil Non-Availability Reports (FONARs) received
- Important lessons learnt from IMO 2020 for the development of the GHG fuel standard









Delivering the IMO net-zero pathway with all hands on deck: joint efforts across the maritime value chain

IMO and Member States

- Develop additional global regulatory instruments to ensure a global-levelplaying field in availability and uptake of low-zero fuels/technologies
- IMO to adopt by 2025 a basket of measures consisting of a technical element (reducing fuel's GHG intensity) and an economic element (based on GHG emissions pricing)

Ensuring a just and equitable transition

Support developing States and seafarers in ensuring affordable access to global markets through capacity building, technology cooperation, carbon revenues, ...

SUSTAINABLE SHIPPING

Maritime industry

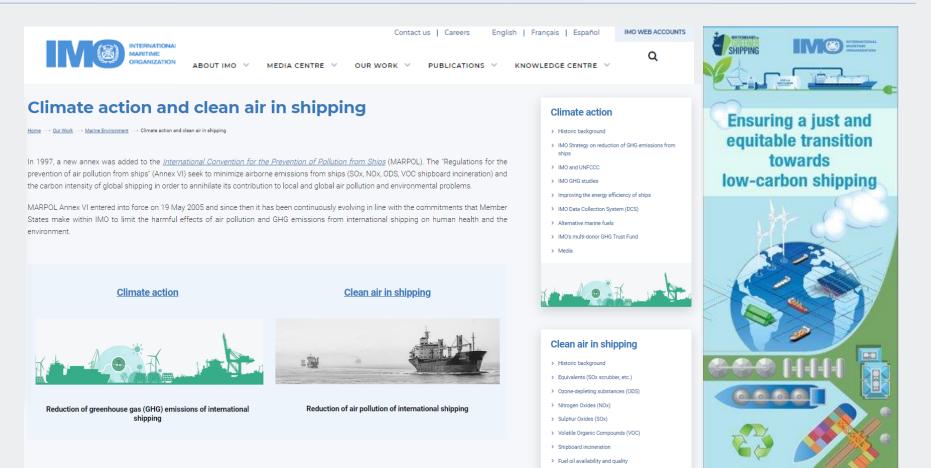
- Demonstrate leadership and innovation through early action (new-build orders, firstmovers, green corridors, ...)
- Engage in partnerships with ports, fuel producers, financial sector





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Thank you for your attention



For more information; www.imo.org - "Climate Action and Clean Air"





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