International Maritime Organisation (IMO) 2023: Potential Impact on Ocean Freight Supply Chain



WHAT:

IMO, a specialised agency under the United Nations, is responsible for the safety and security of shipping and the prevention of marine and atmospheric pollution by ships.

WHY:

To contribute and fight against climate change and its impact. The aim is to reduce CO2 emissions by at least 40% by 2030 and 70% by 2050 compared to 2008.

HOW:

Target to increase vessel efficiency and reduce carbon intensity to reduce Green House Gas (GHG) emissions from international shipping.

IMO Measures

Energy Efficiency Design Index (EEDI)

A calculation model of energy efficiency for vessels. Mandatory for existing vessels to have an energy efficiency management plan. For example — improved voyage planning.

Potential Impacts

- Vessels might be pulled out of service for drydock
- This could lead to possible changes in port rotations, port calls, or frequency to ensure vessels meet requirements
- New vessels, especially those with more than 4000 teus capacity, might not be suitable for Oceania trade due to existing port infrastructure

Rates -

Capacity



Service



Ship Energy Efficiency Management Plan (SEEMP)

Also refer to the speed optimization, a potential approach to improve the energy efficiency of the ship.

- For vessels operating on a lower nautical mile, longer transit time between ports will be expected
- For example, transit time between Shanghai to Australia is on average 13 days. After SEEMP is implemented, this transit time might increase to 17 days instead

Rates •



Capacity



Service



Carbon Intensity Indicator (CII) and rating system

A graded score of carbon emission; whereby it links the GHG emissions to the number of cargo vessels carried and the distance travelled.

From 2023, all vessels to establish CII and will be graded from A (best) to E (worst) on the CO2 emission.

Similar to EEDI, more vessels are likely to be pulled out of service for maintenance



Capacity



Servic



