

TECHNICAL CIRCULAR No. 703 of 7th October 2021

То	All Surveyors/Auditors. All flags
Title	Carbon Emissions- Antifouling
Reference	IMO and Green House Gas (GHG)

Reducing Carbon Emissions Through Premium Performance Antifouling

Some premium coating can contribute to reducing the environmental from shipping.

With good painted hull, vessels will be able to reduce their CO₂ emissions.

Energy Efficiency Existing Ship Index (EEXI)

IMO has adopted an Initial Strategy for reduction of Green House Gas (GHG) missions from ships. IMO has set a traget to reduce the total annual GHG emissions by at least 50% by 2050 compared to the 2008 levels.

The targets are decided as below:

- Reduce carbon intensity by 40% by 2030
- Reduce carbon intensity by 70% by 2050
- Reduce GHG emissions by 50% by 2050

To accelerate the decarbonization of the marine industry, there has been pressure to do more to improve vessel's efficiency. The IMO has dedveloped two measures which will come into effect in January 2023:

- EEXI (Energy Efficiency Existing Ship Index) and
- CII (Carbon Intensity Indicator)

All ships will be categorised and given an efficiency index number that they will need to achieve. Required EEXI is decided according to EEDI reference line or result of in-service performance measurements.

An estimated number of 30,000 ships may have to be issued withh new International Energy Efficiency Certificates, IEEC by first annual, intermediate or renewal survey after January 2023. Half of the vessels may require measures such as engine power limitation to comply with EEXI requirements.

To raise the level of basic ship performance, ship owners and operators can take various actions

CONARINA Head Office

6505 Blue Lagoon Dr. Suite 455 Miami, Fl., 33126 Tel: 1 (786) 558 5288, Fax: 1 (786) 325 0200,

Joel@conarinagroup.com

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for EEXI improvement measures such as engine power limitation, change of fuel type, liquefied natural gas (LNG), redesigned propeller retrofit, instalations of energy saving devices. For these

investiments to be effective, hull coatings should also be a significant factor to consider.

Carbon Intensify Indicator CII

CII will become mandatory a an operational measure for all vessels over 5000 GT from 2023. The ships will be classified into five different grades based upon evalution and the CO₂ reduction target

will become more stringent year by year.

REFERENCES:

- IMO and Green House Gas (GHG), MFAME

ATTACHMENTS: No

Kindest Regards,

CONARINA Technical Office

CONARINA Head Office

6505 Blue Lagoon Dr. Suite 455 Miami, Fl., 33126 Tel: 1 (786) 558 5288,

Fax: 1 (786) 325 0200, Joel@conarinagroup.com