

MAN Carbon Intensity Indicator (CII) Solutions

MAN PrimeServ

CII

Carbon Intensity Indicator (CII) is a guideline adopted by the International Maritime Organization's Marine Environment Protection Committee (MEPC) in June 2021 as part of its greenhouse gas (GHG) mandatory measures. Their strategy focuses on reducing carbon intensity of international shipping 40% by 2030.

CII & EEXI

IMO have introduced two measures to reduce CO₂ emissions. The one measure focuses on the operational carbon intensity reduction requirements, based on a new operational carbon intensity indicator (CII). Whereas the second measure focuses on the design requirements to reduce carbon intensity, based on a new Energy Efficiency Existing Ship Index (EEXI).

Carbon Intensity Indicator (CII) will enter into force from 2024. CII is defined as CO₂ emissions per transport task (CO₂/dwt x nautical mile). It is calculated based on a vessel's mandatory annual fuel report to the IMO.

CII rating

With the introduction of CII, vessels will be rated from A (best) to E (worst). This rating can have a direct effect on the vessel's commercial value, in terms of fuel efficiency, charter value, insurance cost, port fees, and depreciation.

MAN CII solution - Two stroke engines

| | Turbocharger/calcul | PMI ICCO | PMI Auto-tuning | MAN EcoTorque | MAN EcoNozzle | MAN EcoCAM | PMI VIT | PrimeServ /Aspiral | Dual Fuel conversion | CP Propeller upgrade | Customized solutions |
|------|---------------------|----------|-----------------|---------------|---------------|------------|---------|--------------------|----------------------|----------------------|----------------------|
| MC | ✓ | | | | | | ✓ | | | ✓ | ✓ |
| MC-C | ✓ | | | | ✓ | ✓ | ✓ | | | ✓ | ✓ |
| ME-C | ✓ | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ |
| ME-B | | | ✓ | ✓ | | | | ✓ | | ✓ | ✓ |

Each of our CII solutions has a number of cost-effective and time-optimizing benefits

Benefits

- Significant fuel savings
- Reduction in CO₂ emissions
- Improved CII rating and lower chartering rates for ships
- High return on investment
- Short payback time

If your vessel requires modifications to meet EEXI standards, it is advisable to use this as an opportunity to invest in solutions that contribute towards an optimal CII rating. Our experts can help you to understand what is possible and the benefits it can bring to your business over the longer term.

Retrofit & Upgrades
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