

Carbon Intensity Indicator Benchmarking Service

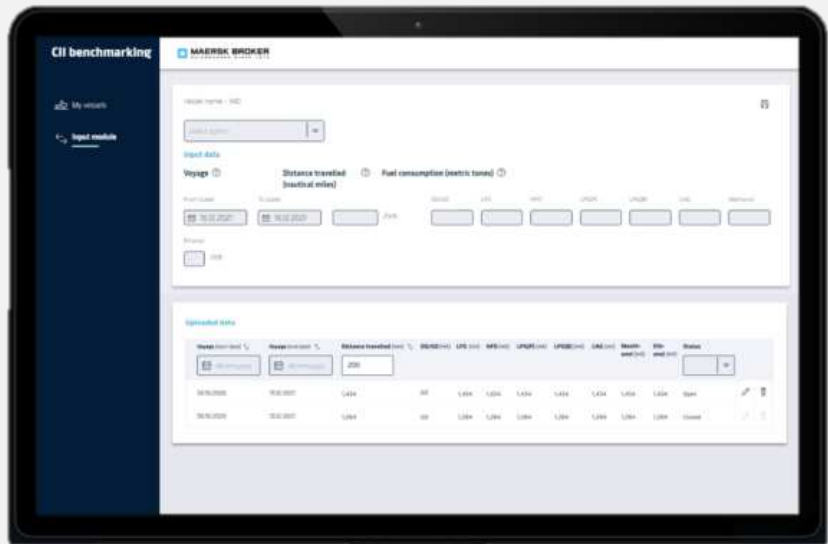
By Maersk Broker Advisory Services



MAERSK BROKER
ADVISORY SERVICES

ARE YOU READY FOR THE UPCOMING CII REGULATIONS?

- Get prepared with our CII BENCHMARKING TOOL



Our digital CII Benchmarking tool is now live!

[Access Now](#)



The **Carbon Intensity Indicator (CII) Benchmarking Tool** provides an easy-to-use online platform for clients to automate the calculation and operational benchmarking of CII metrics including ETS exposure on a vessel- and fleet-specific level.



The tool provides critical insights on the environmental performance of the fleet and provides **an operational benchmark** that allows for the results to be **compared to similar vessels on an on-going basis**.









From January 2023, CII calculations will be mandatory for ship owners and our CII Benchmarking Service **is a critical first step towards complying with IMO regulations or understanding how vessels will affect the climate alignment of portfolios**.



With this product, we aim to assist our clients in understanding the **commercial implications of the upcoming CII regulations** on their fleet or portfolio.

CII benchmark service – Output example

VESSEL INFO

	Type:	Bulk carrier
	Year of Built:	2017
	DWT:	81,277
	GT:	44,069
	Engine:	MAN-B&W 6S60ME-C8 DD
	Scrubber:	NO



Poseidon Subgroup: **BC4** (60,000-99,999 dwt)



MB Subgroup: **H: Kamsarmax**

Age group: **0 - 5 years**

* MB subgroup split into age group
 ** MB subgroup not split into age group
 *** Assumed unchanged trade

AER CALCULATION

Poseidon Principles Benchmark:

- Data on 2,139 vessels out of 3,867 (55.3%)

Data point
Divergence

PP Category AER	Vessel name AER
4.21	3.74
	-0.47

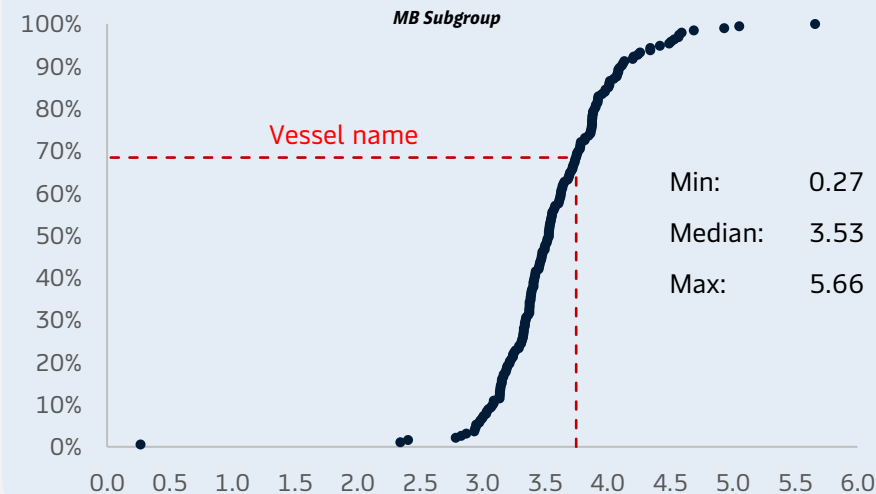
Maersk Broker Benchmark:

- Data on 201 vessels out of 441 (45.6%)*

Data point
Divergence

MB Category AER	Vessel name AER
3.58	3.74
	+0.16

AER DISTRIBUTION



IMO BENCHMARKING

Vessel name – IMO category

	2023	2024	2025	2026
Score	B	C	C	C

COMPARED TO SEGMENT

Data on 726 vessels out of 1,245 (58.3%)**

	2023	2024	2025	2026
A	22%	18%	14%	12%
B	20%	19%	18%	15%
C	32%	31%	31%	30%
D	15%	19%	21%	24%
E	11%	13%	16%	19%

EU ETS

Given an annual emission of **6,680 (m tonnes)** as reported in 2020 EU MRV data

EUR '000	2023	2024	2025	2026
Allowance*** €60.7, 6-month avg.	56.8	127.9	198.9	284.1

Our digital product automates CII calculations

MBAS has developed a digital product to automate calculation and benchmarking CII metrics

CII BENCHMARKING

- MBAS can assist you in **automating the calculation and benchmarking of** the CII metrics of your fleet. We provide **third-party verification** for your CII metrics
- From 2023, every owner must be aware of these metrics in conversations with all stakeholders including regulators, charterers, financiers, investors, etc.



CII CALCULATION

- A CII metric measures how efficiently a ship transports goods or passengers and is given in grams of CO₂ emitted
- The two main CII metrics are **Annual Efficiency Ratios (AER)** and **Energy Efficiency Operational Index (EEOI)**.



VALUE OF MBAS BENCHMARK

MBAS can provide **vessel- and fleet-specific benchmarks** incl:

- Comparison of **CO₂ efficiency across segments, sizes and age groups**
- Trajectory towards complying with **IMO regulations, the Poseidon Principles and the Sea Cargo Charter**
- Provides **transparency** when formulating a decarbonization strategy

PROCESS AND DELIVERABLES



Data gathering

MBAS gathers data from shipowners and ensures strict confidentiality



Data verified & processed

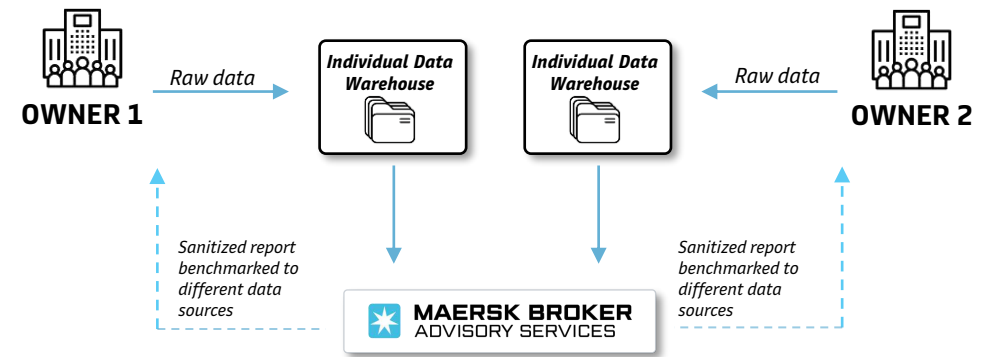
MBAS verifies the data and calculates CII metrics based for each vessel



Output returned

MBAS develops a benchmarking report on vessel- and fleet-level

MBAS acts as a neutral clearing house





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