



Marine Emission

your solution.



## How Does “Marine Emission” Help You?

- As Marine Emission, we offer the fastest and most advantageous solutions for all specific tracking needs of vessels, such as **MRV, DCS, EU ETS, CII**, etc, through our "Emission Congruity System" service provided to our users.
- With our high-standard service, we calculate and record your vessels' fuel consumption, greenhouse gas (GHG) emissions, EU ETS tax liabilities, and pre-voyage tax & fuel expense amounts. We ensure the flawless operation of your ISM System and provide you with daily and real-time access to critical statistics such as EU ETS, CII, in a cumulative manner.

We promise high-quality service in tracking your fleet's emissions with our records kept on a daily, weekly, monthly, and yearly basis, along with the graphs and statistics we generate.

Thanks to our records, we also take on the ISM obligations imposed on your company by the IMO and the EU, providing the most accurate consultancy and control services and ensuring ISM audits on your behalf with accreditation bodies.

Thus, whether you are subject to MRV & DCS or EU ETS control, at Marine Emission,  
**we lighten your workload in terms of ISM,**  
**We always keep all the documents ready for you during the annual class approval process for MRV and DCS.**



## Emisyon Congruity System (ECS)

- With the Emission Congruity System, we keep all statistics from your vessels up to date and provide instant access for your office.
- We facilitate all your operations related to fuel consumption and greenhouse gas emission tracking, CII calculation, EU ETS tax calculation and tracking, and the regular and accurate preparation of MRV & DCS documents, making your work easier in all aspects of your vessel's fuel performance.
- We inform you of any anomalies and human-factor errors in daily reports regarding fuel consumption, distance, speed, etc.
- Utilizing all the capabilities of statistics and data science, we offer specific recommendations for route optimization for each voyage, supporting you in minimizing fuel consumption and carbon emissions.

*Marine Emission manages all tracking, documentation, and class processes related to carbon emissions on your behalf.*

*We track all developments, new applications, and regulations regarding GHG emissions at IMO, EU, and other authorities on your behalf, keeping you constantly updated.*

*We prepare-manage MRV&DCS documents according to your company's ISM format, ensuring the highest quality standards.*



## Emission Congruity System (ECS)

- **System Routine and Statistical Formation**

- \*Detailed data storage for each ship and the entire fleet, transforming stored data into operational and financial statistics to serve as a reference for decision-makers.

- \*Comparing fleet ships with each other and with IMO statistics, planning and executing commercial activities in the company's interest through the creation of medium and long-term forecast statistics.

- **Risk Management and Monitoring**

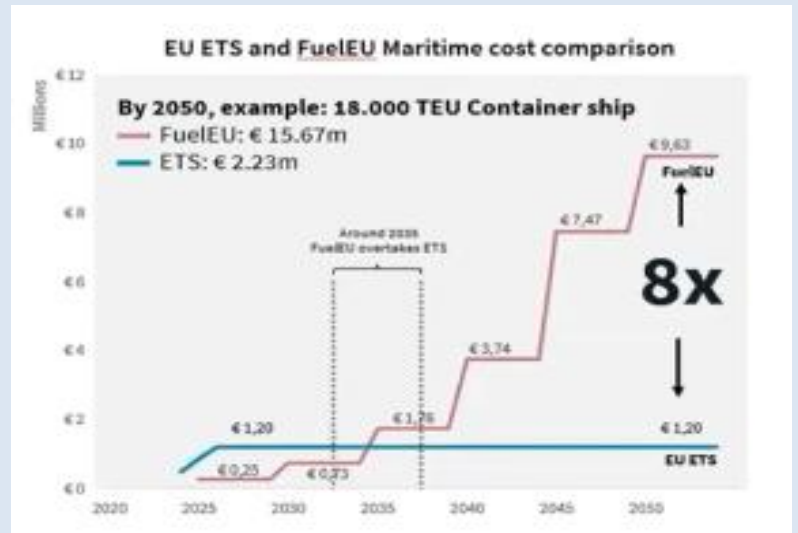
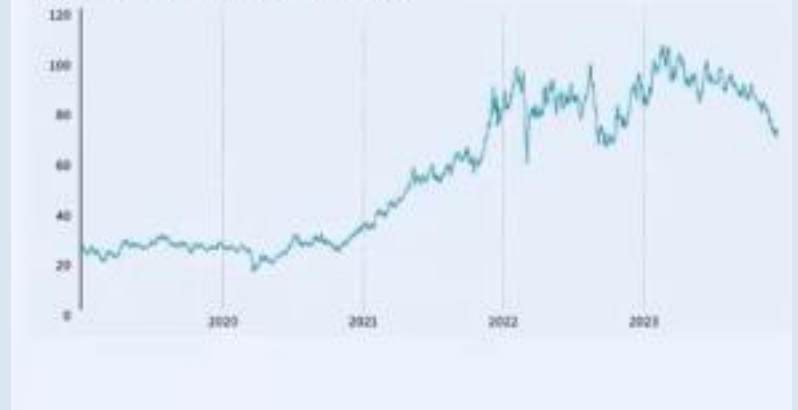
- \*Through detailed tracking of ship operations, increasing data diversity, and providing users with independent data services regarding potential claims and damages.

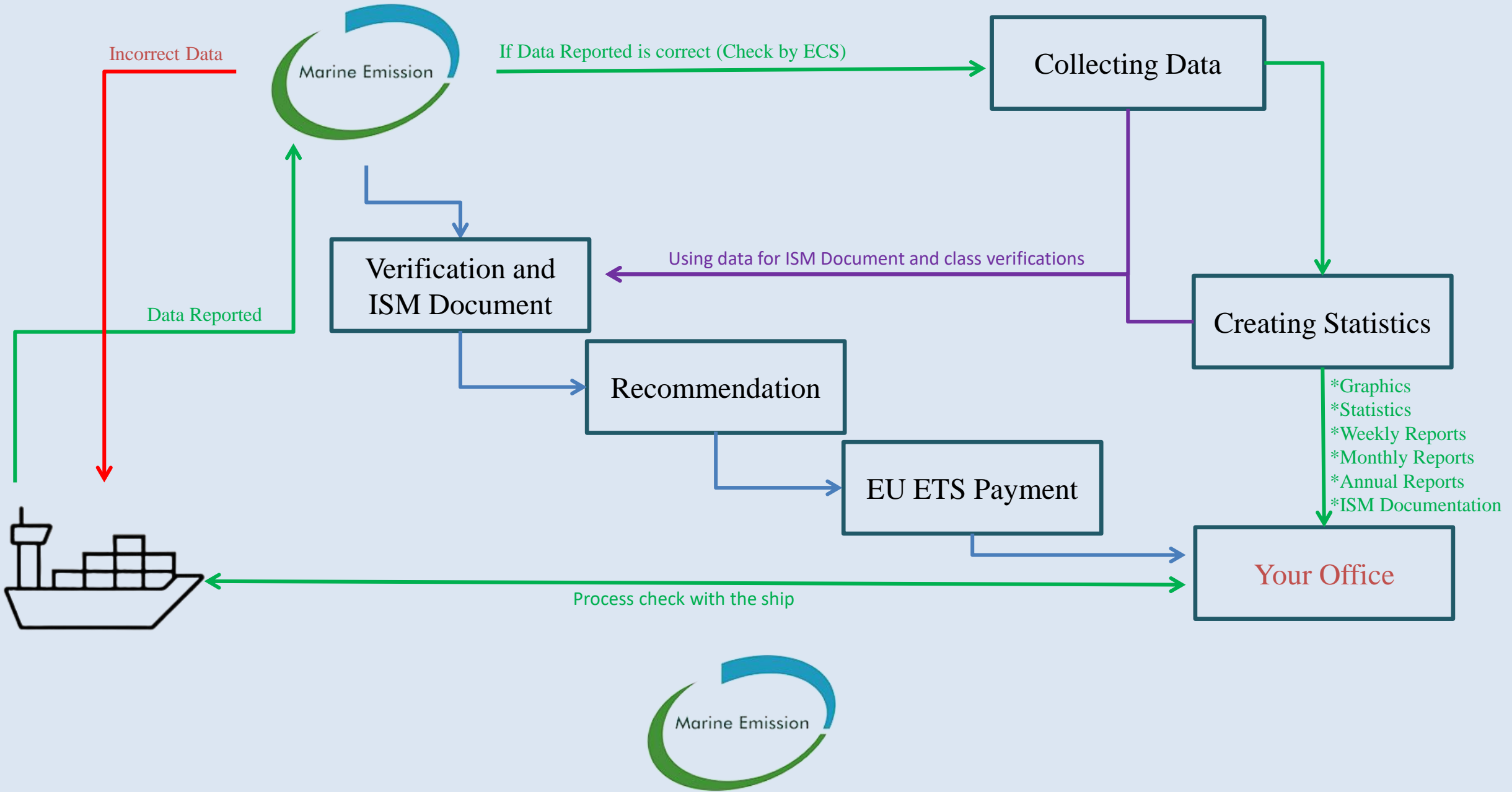
- **Financial Management**

- \* Providing consultancy to users in the creation of the EU Allowance (EUA) budget for EU ETS payments.

- \* Protecting company interests by keeping the user continuously updated about the high volatility inherent in EUA pricing.

EU Carbon Permit daily closing price, December 2018-2023







## EU Emission Trading System – EU ETS

ETS Amount (As of DD.MM.2024)						
Ship Name	Total MDO Consumption	Total IFO Consumption	Total CO2 Emission (MDO)	Total CO2 Emission (IFO)	Total Distance	ETS Tax*
T.E Ship 1	55,30	21,0	208,013	65,394	2017	€ 4.419,20
T.E Ship 2	66,36	25,2	249,616	78,473	2420,4	€ 5.303,04
T.E Ship 3	56,30	22,0	209,013	94,167	2904,48	€ 6.363,65
T.E Ship 4	67,56	26,4	250,816	113,001	3485,376	€ 7.636,38
Grand Total of ETS Tax for Fleet as of Today:						€ 23.722,27

\*Bir filo için örnek ETS Takip Tablosu

\*Through the Emission Congruity System, Marine Emission regularly monitors and records the EU ETS tax liability, which has been implemented starting from 2024, on your behalf.

**\*Thus, you can see on any day of the year the amount of ETS taxes or the whole fleet or any specific vessel you choose for that year.**

*We calculate the ETS Tax (EU Allowance) expense for each voyage before the vessel is fixed, with negligible margins of error.*

*By conducting comparative studies on various flight options you may request, we inform you about the most suitable flight, and we assist you in your dialogues with counterparts by converting all calculations into detailed and understandable documents.*

*We provide all intermediary services specified in the regulation for your EU ETS payments, ensuring that your vessels enter European ports without any disruption or penalties.*



# IMO Data Collection System (DCS)



- With the Emission Compliance System, we **relieve you of the burden of tracking your vessels' fuel consumption** and performance according to the contents of the Data Collection System (DCS) required by the IMO and/or the Monitoring, Reporting, Verification (MRV) System required by the EU.
- We conduct comparative checks of ISM documents received from vessels for DCS and MRV against our own records. We promise a service package for emission tracking that is real-time, involves strict monitoring, and **reduces your workload to zero**.

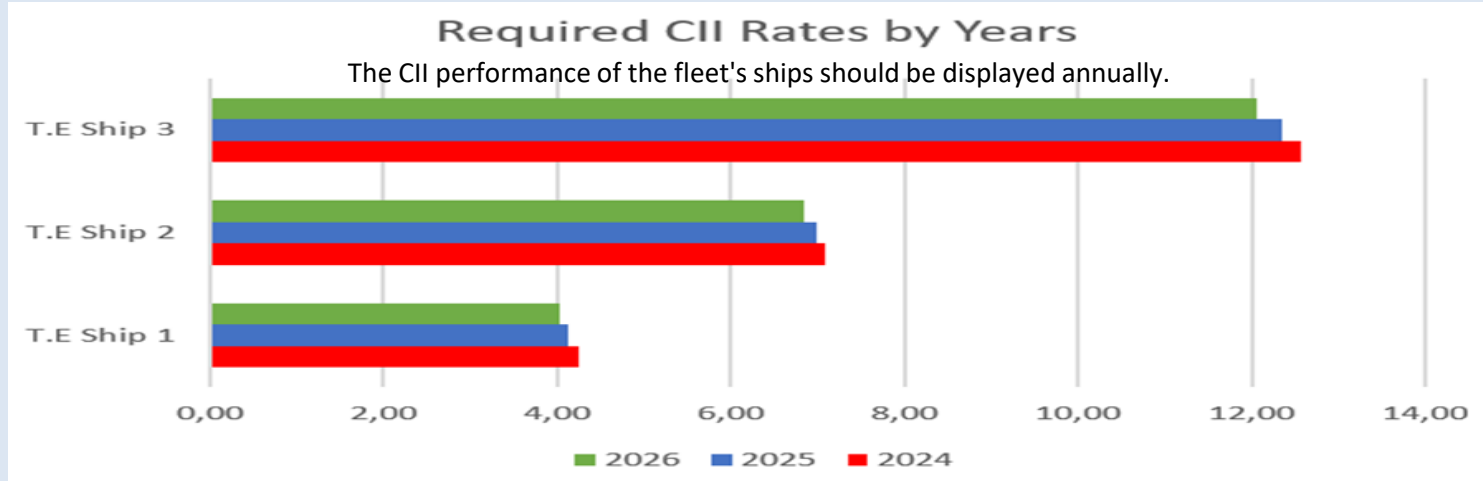
*Like other ship operators, you too can entrust your DCS and MRV tracking to **Marine Emission**.*

*Through the comprehensive services we offer we keep a record of all your daily fuel expenses and greenhouse gas emissions.*

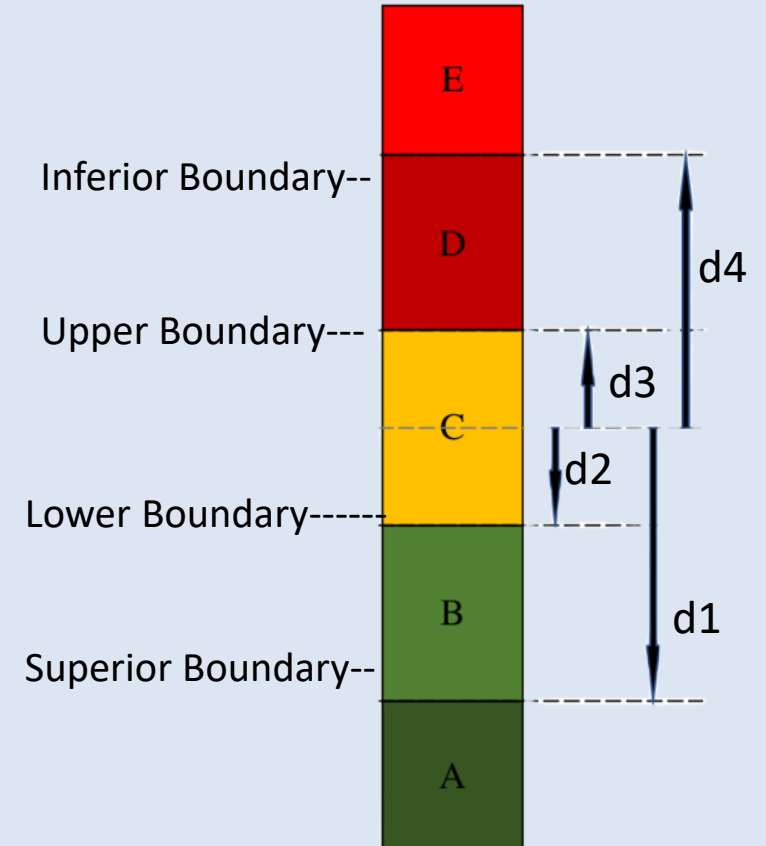
*We also facilitate your responsibilities with official authorities by providing customized services tailored to your needs.*



# Carbon Intensity Index - CII

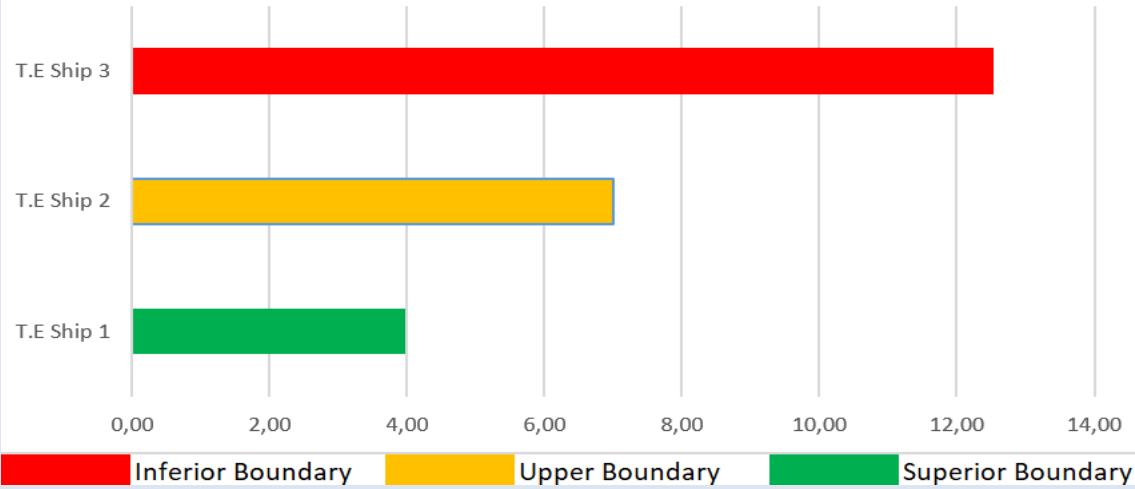


- With the Emission Congruity System, we process daily reports from ships regularly to calculate and provide you with their daily, weekly, monthly, and yearly fuel consumption amounts, CO2 emissions, and CII Rates.
- **We determine the specific CII Boundaries for all vessels, maintain daily records, and keep you constantly updated with weekly reports containing fuel consumption and emission statistics for your vessels, as well as the latest developments in the carbon market.**



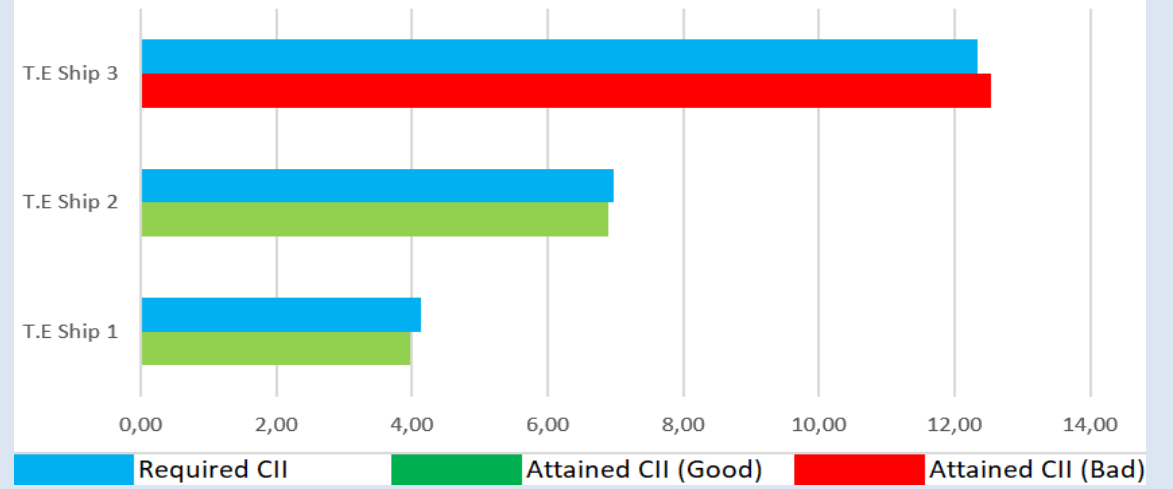


### CII Boundaries of the Fleet Ships as of Today\*



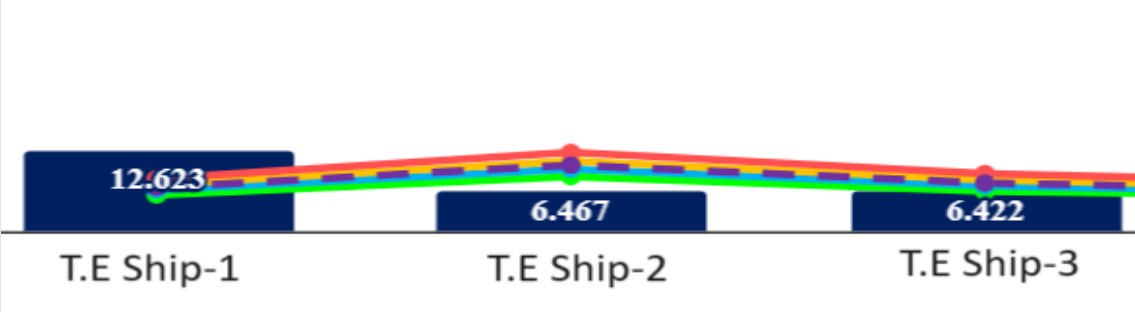
\*The CII Boundaries of the fleet's ships

### Current CII Performance Indicator for the Fleet Ships



\*Daily CII Performance Tracking of the fleet's ships.

### Attained and Required CII for the Ships



\*Daily CII Performance Tracking of the fleet's ships

### ANNUAL FOLLOW UP (As of DD.MM.2024)

Ship Name	Type	Annual Total Distance Sailed (nm)	Average Speed	Attained CII	Ship's CII Rate
T.E Ship 1	B.C.	813,0	4,02	7,90	E
T.E Ship 2	B.C.	1698,0	6,84	5,63	C
T.E Ship 3	G.C.	2193,0	12,06	3,98	A
T.E Ship 4	G.C.	1971,0	11,87	5,02	B

\*Annual CII Performance Tracking of the fleet's ships.



Existing EU MRV Regulation (EU) 2015/757	Revised EU MRV Regulation (EU) 2023/957 and secondary legislation
EU MRV Plan	Extended EU MRV Plan
Emissions of CO <sub>2</sub>	Emissions of CO <sub>2</sub> , N <sub>2</sub> O and CH <sub>4</sub>
Yearly reporting only From first MRV leg to end of last MRV leg starting in a year	Partial MRV report + yearly report From 1st Jan to 31st Dec each year
Ship's emissions report	Ship's and company's emissions report
Verified report submitted to the EC by end of April	Verified company report submitted to Administering Authority and the EC by end of March

*We ensure message and data security using SSL/TLS and RDS encryption protocols, providing you with peace of mind about the security of your data without causing you any hassle.*

*For more information about data security and encryption protocols, please feel free to contact our communication team.*

- The provided graphs are examples.  
For more detailed information, **we invite you to Marine Emission.**
- According to the working principle of the Emission Congruity System, we track your fleet's fuel consumption through daily, weekly, monthly, and yearly reporting, complying with emission regulations and ETS.  
**Which minimizes your workload.**



## TRY FOR FREE FOR TEN DAYS

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You can also request to take advantage of the ten-day free trial by filling out the form below and sending it to [tech@marineemission.com](mailto:tech@marineemission.com) !

Best Regards,

### Marine Emission

**Topic:** Marine Emission – Emission Congruity System Ten-Day Free Trial

**Name - Surname:**

**Title:**

**Company:**

**Mobile:**

**Ship: (Bulk, General Cargo, Oil & Chemical Type () etc.)**

**Ship Name(s):**

**IMO Num(s):**

**Vessel Fuel Consumption Specifications\*:**

**Additional Information :**

\*If you would like, you can provide the Ship's Particulars. If you do not wish to share the Ship's Particulars, please follow the format below:

Laden abt 10.00 kn on abt 10.00 mt vlsfo + abt 1,0 mt mgo when sailing

Blst abt 10.00 kn on abt 10.00 mt vlsfo + abt 1,0 mt mgo when sailing

Laden abt 10.00 kn on abt 10.00 mt vlsfo + abt 1,0 mt mgo when sailing

Blst abt 10.00 kn on abt 10.00 mt vlsfo + abt 1,0 mt mgo when sailing

LSFO max RMEXX and 0.5% s. MGO ISO8217 2010 DMA max 0,1% sulphur + PORT IDLE + GEAR & PUMP WORKING + ADDITIONAL

