

Clean Shipping Index

– Methodology Summary for Offshore Supply Vessels[OSVs]

Background

The Clean Shipping Index (CSI) is extending its scope to include Offshore Supply Vessels (OSVs). These vessels are characterized by specialized operations—such as platform supply, anchor handling, and standby duties—that differ significantly from conventional transport-based shipping.

This methodology outlines the initial approach for integrating OSVs into the CSI, with indexing of newbuilds commencing May, 2025.

CO₂ Benchmark for Newbuilds (EEDI approach)

For newbuild OSVs, a reference line based on the Energy Efficiency Design Index (EEDI) will be used. As there is no IMO baseline for OSVs, CSI has constructed a provisional reference line:

$$EEDI_{ref} = 746.49 \times DWT^{-0.322}$$

EEDI_{vessel} will be calculated per MEPC.231(65) §14 and compared to the above reference.

$$EEDI = \frac{\sum(SFC_i \times CF_i \times P_i) + \sum(SFC_a \times CF_a \times P_a) - P_c}{DWT \times V_{ref}}$$

Where

- SFC (Specific Fuel Consumption): Fuel consumption rate of main engines (SFC_i) and auxiliary engines (SFC_a) in g/kWh.
- CF (Carbon Factor): A conversion factor to calculate CO₂ emissions from fuel consumption (kg CO₂/kg fuel).
- P (Power): Rated power of main engines (P_i) and auxiliary engines (P_a) in kW.
- P_c (Correction): Adjustments for energy-saving devices or technologies (e.g., wind propulsion).
- DWT (Deadweight Tonnage): Cargo-carrying capacity of the ship.
- V_{ref}: Ship's reference speed in knots at 75% of its installed main engine power.

Other CSI Categories

No major obstacles have been identified in applying existing CSI criteria (SO_x/PM, NO_x, Chemicals, Waste & Water) to OSVs. These will follow current CSI documentation and verifier procedures.

Next Steps and Stakeholder Input

The outlined methodology is being refined during fall 2025. Stakeholders—including shipowners, operators, and verifiers—are invited to contribute feedback, particularly regarding the CO₂ methodology and category implementation.



Please send input and contact us by:
cleanshippingindex@ivl.se