

Energy Efficiency Existing Ship Index (EEXI) and carbon intensity indicator (CII) calculation and reporting have been mandatory on January 1, 2023 (IMO, 2022). IMO adopted ...

Effects of mechanical vibration on melting characteristics of latent thermal energy storage units using the dynamic mesh method. Author links open overlay ... and the ...

Energy storage systems (ESS) are continuously expanding in recent years with the increase of renewable energy penetration, as energy storage is an ideal technology for ...

Regulation EU 2023/1805 (FuelEU Maritime Regulation) establishes two core obligations for vessels calling at EU ports: Greenhouse Gas (GHG) Intensity reduction: There are specific targets for reduction of the yearly average GHG ...

Sustainable development of container terminals is based on energy efficiency and reduction in CO<sub>2</sub> emissions. This study estimated the energy consumption and CO<sub>2</sub> ...

Given the rising demand for energy and the escalating environmental challenges, energy storage system container has emerged as a crucial solution to address ...

As mentioned, there are thermal energy storage applications involving liquid-vapour (L-V) two-phase operations. For example, steam-based thermal energy storage ...

The Carbon Intensity Indicator (CII) rating system for ships is coming into force in 2023. ... or inferior performance level. The performance level will need to be recorded in the ship's Ship ...

Calculate your vessel's CII rating. The Carbon Intensity Indicator (CII) rating system for ships is came into force in 2023. Find out how LR can help with your CII rating.

The Carbon Intensity Indicator (CII) is a measure of how efficiently a ship transports goods or passengers and is given in grams of CO<sub>2</sub> emitted per cargo-carrying ...

Application: Ships of 5,000GT and above, engaged in international voyages. Reporting period: calendar year (1 January - 31 December) Requirements: Revisions of SEEMP to add ...

Thermal energy storage systems are increasingly becoming attractive since many renewable energy supplies must deal with inconsistent demand and supply. ... and solidification time, ...

the number of containers for that shipment. To calculate a company's CO<sub>2</sub> footprint from ocean container transport: 1. Identify the trade lanes and port pairs used. ... Energy Efficiency ...

When you benchmark your building in Portfolio Manager, one of the key metrics you'll see is energy use intensity, or EUI. Essentially, EUI expresses a building's energy use as a function ...

Salunkhe et al. [32] provided an overview of containers used in thermal energy storage for phase change materials and suggested that rectangular containers are the most ...

Intensity is the quantity of energy the wave conveys per unit time across a surface of unit area. The intensity formula depends on pressure and the area on which the pressure is acting. ...

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