

EFFECT OF MAIN VESSEL'S PARTICULARS ON ITS ATTAINED ENERGY EFFICIENCY DESIGN INDEX

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ABSTRACT

This paper presents a review on the Energy Efficiency Design Index (EEDI) implementation on ship performance and environment protection. The (EEDI) analyses is applied to three different types of ships; RoPax, yachts and tugs. Factors related to ship design parameters such as length, breadth, block coefficients, speed and engine model as related to EEDI are discussed. It was found out that length and speed are the most significant factors affecting the EEDI.

KEYWORDS: Marine Energy, Marine Environment, Green House Gases GHG, IMO Regulation EEDI, Hydrodynamics Design