

Folding container 200kW vs diesel engine





Overview

Can a large container ship have electric propulsion?

Particularly, a large container ship with electric propulsion will be the key element of global trades for sustainable shipping. This study investigates the combined power cycles for the electric propulsion system in a large container ship. Combined cycles have the primary power machinery and a secondary one.

How many configurations of electric propulsion system are suggested in a large container ship?

Three configurations for the electric propulsion system are suggested in a large container ship. Comparative results of three configurations are provided for selecting an appropriate alternative. A hythane-fueled marine power plant becomes solely available with a stricter EEDI phase.

Why do container vessels have a lower power demand?

The lower power demand of these container vessel orders can be explained by the increased focus on reduced fuel consumption: Shipyards have improved hull designs and hydrodynamic propulsion efficiency, thereby reducing power demand at the same vessel speed by ~10%, and combining this with de-rated engines having better fuel efficiency.

What is the DWT limit for a 14'000 TEU vessel?

A 14'000 TEU vessel with a DWT of around 160'000 built after 2015 needs to meet the limit of 14.1 g/dwt/nautical mile. Burn gas instead of HFO because it has less CO₂ emissions for the energy equivalent volume burnt. The target vessel speed is a key factor in defining the required main engine power.



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