

Container ship power generation





Overview

What is a ship generator & how does it work?

The generator is designed for the safe operation of the ship and reefer container energy supply. There's a huge amount of energy lost by the cooling system and exhaust gas: up to 65% of total energy consumed. There is considerable potential for waste heat recovery on container vessels.

What is medium size container vessel energy?

This paper aims to analyze medium size container vessel energy based on the data collected from the sample ship during two regular voyages. The analysis covers the exergy and energy balance of the main components. Container vessels consume the most fuel of the largest fuel oil consumers as they have the most powerful engines.

How fast can a container ship cruise?

The container vessels are designed for a cruise speed of 24 knots but due to the high cost of fuel oil, companies are adopting economic speed to reduce fuel consumption. The same has been observed for the ship understudy, in that the auxiliary engine is mostly operating at 60% of the nominal power, probably due to low fret.

What are the main fuel oil consumers onboard container vessels?

The main fuel oil consumers onboard container vessels are propulsion engines and auxiliary engines, which are the internal combustion diesel type; the auxiliary boiler fuel consumption may be neglected compared to propulsion engine.



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China initiates construction of world's largest electric container ships

Furthermore, the ships are equipped with lightweight lashing bridges, a fall and collision prevention platform with a photovoltaic system for renewable energy generation, and ...

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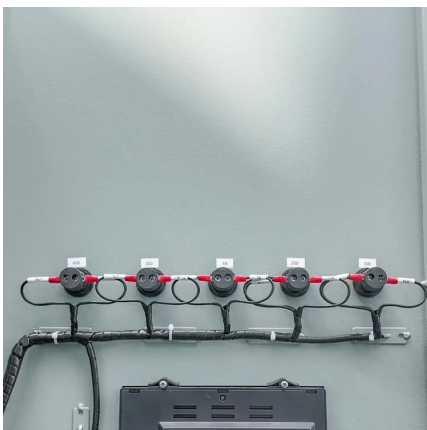
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