

Power generation cost of ship container auxiliary engine





Overview

Does auxiliary engine power increase with ship size?

Compares a number of alternative schemes for auxiliary engine and boiler power. A small local survey of ships provides useful data on auxiliary power demand. Operating auxiliary engine power does not necessarily increase with ship size. The auxiliary power scheme can strongly affect the estimated emissions.

Why do vessels use shore-generated power instead of auxiliary diesel engines?

By using shore-generated power instead of running auxiliary diesel engines, vessel operators enjoy a fuel cost benefit, the magnitude of which depends very much on the going fuel price.

Can auxiliary boiler power be differentiated by ship size?

Auxiliary boiler power was generally not differentiated by ship size. More recent approaches are based on extensive ship survey data, and give tables of auxiliary engine and auxiliary boiler power binned against ship type, ship size and operating mode.

Which auxiliary power unit is best for a ship?

Some modern ships, especially those emphasizing high efficiency or specific operational needs, incorporate gas turbines as auxiliary power units. They offer quick start-up times, compact size, and high power-to-weight ratios but are more expensive to operate than diesel engines.

3. Steam Turbines and Boilers:



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Auxiliary engine power of container ships ...

Shore-side electricity can drastically reduce the emissions from fossil fuel-powered auxiliary engines of ships at berth. Data scarcity on the auxiliary ...

The role of shore power in the future maritime fuel mix

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Auxiliary engine power of container ships used at berth. The ...

Shore-side electricity can drastically reduce the emissions from fossil fuel-powered auxiliary engines of ships at berth. Data scarcity on the auxiliary power demand at berth has limited the ...

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Mar 20, 2019 · These surveys show that auxiliary power does not necessarily increase with ship size or main engine power. A revised approach based on the recent data sources is adopted ...

The assessment of alternative fuel and engine power ...

Mar 18, 2025 · The key parameters considered include main and auxiliary engine power, ship capacity, service speed, SFC, and the fuel carbon factor, which are essential for assessing ...

Operational costs

Fuel cost benefit depends on legislation By using shore-generated power instead of running



auxiliary diesel engines, vessel operators enjoy a fuel cost benefit, the magnitude of which ...

The Utilization of Dual Fuel Auxiliary Engines ...

Oct 28, 2023 · Therefore, the effect of switching conventional auxiliary engines (AEs) with dual fuel AEs used as power generation on container ...

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1 Power of aux engines

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