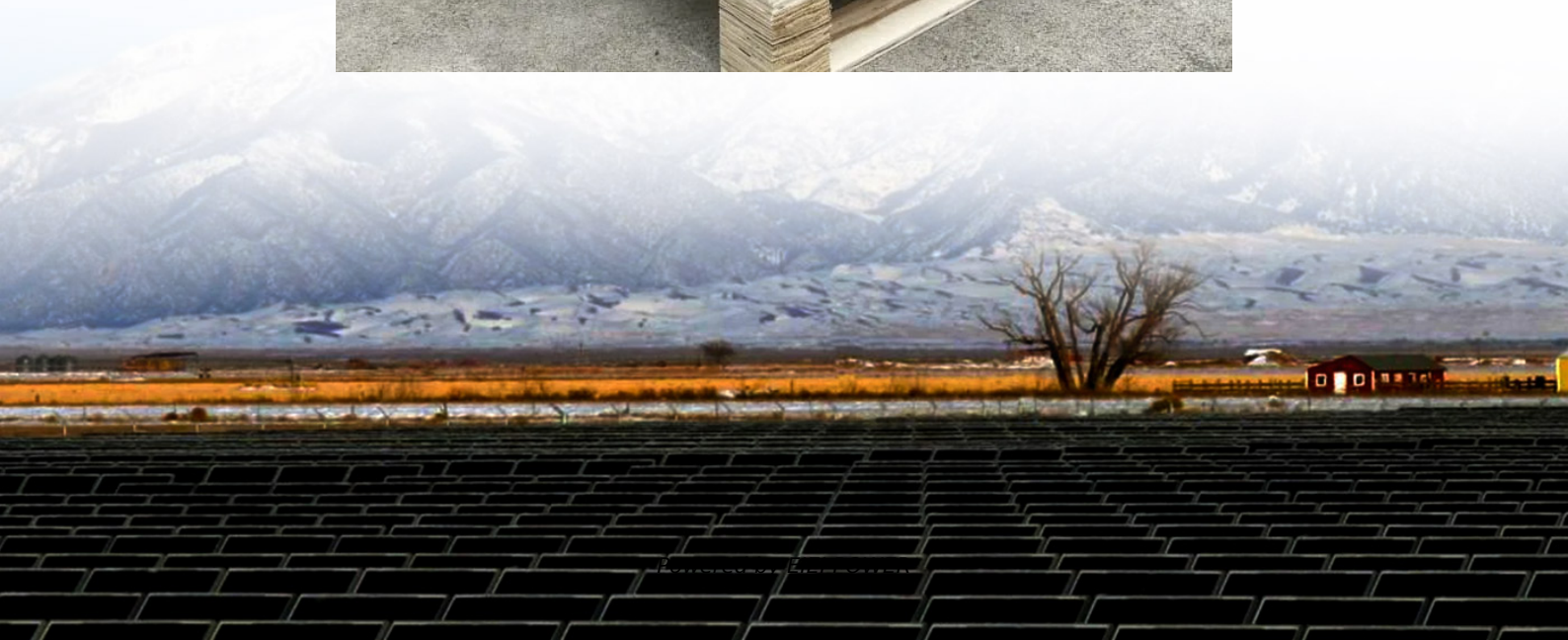


# **Payment for a 50kW folding container vs a diesel engine**





## Overview

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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 CO<sub>2</sub> emissions for the energy equivalent volume burnt. The target vessel speed is a key factor in defining the required main engine power.

How much does LNG cost per day compared to diesel?

Figure 29: Fuel costs per day and savings with LNG compared to diesel at a continuous 80% load assuming a fuel price of 400USD/ton for LNG and 500 USD/ton for low sulphur HFO.

Which engine has the lowest fuel cost per TEU?

The lowest fuel cost per TEU in this case can be achieved with the derated 8X92, which has a 1% advantage compared to the derated 7X92 and 9X82 engines. In this specific study, the strongest derated 9X82 engine (CMCR 2) would give benefits at continuous vessel speeds below 17 Kn.



## Payment for a 50kW folding container vs a diesel engine

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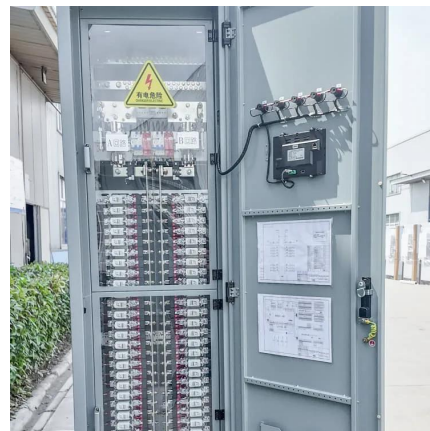
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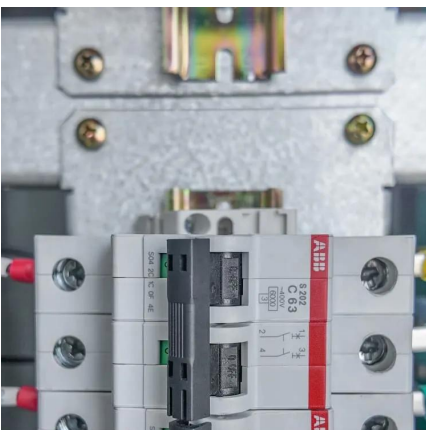
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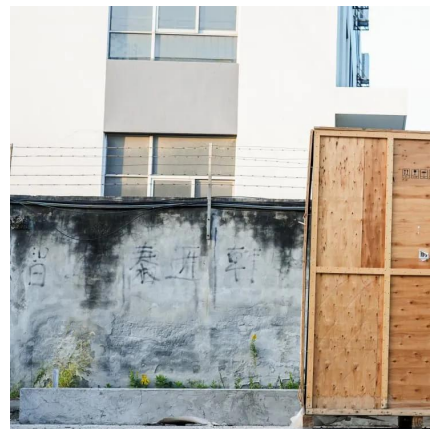


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