
Off-grid cost of foldable containers used in Middle Eastern ports

Can foldable containers be used in maritime transportation?

Computational results show that the proposed formulation performs well in terms of operating costs and there exists a significant cost-saving effect when foldable containers are used in maritime transportation. Previous article in issue Next article in issue Keywords OR in maritime industry Empty container repositioning Foldable container

Do foldable containers affect the shipping industry?

This paper analyzes the effect of foldable containers in various circumstances. Recently, as a result of the COVID-19 pandemic, many unexpected situations have arisen in the shipping and logistics industries. In this study, we examine three key situations: shutdowns, demand fluctuations, and fleet size fluctuations.

Why are foldable containers not used in Asian ports?

Because of insufficiencies of empty containers at Asian ports, repositioning of foldable containers does not occur and foldable containers are used to transport goods from Asia to NA. In this case, the utilization of foldable containers decreases as folding and unfolding costs increase.

Are foldable containers cost-saving?

Comparisons between the two cases are represented in Table 8. With varying transportation and repositioning costs, we observe a tight performance gap and a significant cost-saving effect using foldable containers.

The results show that introducing foldable containers into empty container repositioning along a river can utilize vessel space more effectively and decrease the total cost ...

This study seeks to explore the effectiveness of employing foldable containers (FLDs) in liner shipping to reduce relocation and the empty containers and bunker costs (BCs) ...

Abstract This paper analyzes the effect of foldable containers in various circumstances. Recently, as a result of the COVID-19 pandemic, many unexpected situations ...

This could save transport costs, but also transshipment and storage costs. In this paper, we analyse the opportunities for commercial application of foldable containers. For this ...

However, the optimal number of foldable containers differs in each situation, and the cost of foldable containers is high. To address this, we propose implementing effective ...

This paper proposes a robust formulation for the empty container repositioning problem considering foldable containers under demand uncertainty. The robust formulation ...

Foldable solar container systems are emerging as a breakthrough solution--combining

renewable energy, rapid deployment, and modular design into one efficient unit. With the global push for ...

The Ultimate Guide to Foldable Shipping Containers As global trade continues to expand, the shipping industry faces significant challenges, including rising costs, inefficiencies, ...

Middle East Solar Grid-connected System Microgrid deployment in the region spans renewable, hybrid, and diesel-solar systems, supporting grid-connected and remote applications in ...

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