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Off-grid cost of foldable containers used in European airports



Overview

Are foldable containers a viable alternative to empty containers?

However, due to trade imbalances transport movements of empty containers remain to some extent unavoidable. Therefore, foldable containers seem an attractive option from the point of view of saving transport costs as well as handling and storage costs. So far, however, these containers have not been introduced successfully.

Are foldable containers a good option?

Most strategies are focussed on improving the instruments to match cargo with empty containers. However, due to trade imbalances transport movements of empty containers remain to some extent unavoidable. Therefore, foldable containers seem an attractive option from the point of view of saving transport costs as well as handling and storage costs.

Do foldable containers reduce container fleet management costs?

The effect of foldable containers on the costs of container fleet management in liner shipping networks. *Maritime Economics & Logistics*. 2012. Vol. 14. No. 4. P. 455-479. DOI: 10.1057/mel.2012.16. Shintani, K. & Konings, R. & Imai, A. Combinable containers: A container innovation to save container fleet and empty container repositioning costs.

Do foldable containers generate revenue?

However, this does not generate revenue and incurs container management costs (CMCs). Some container carriers may use foldable containers (FLDs), such as four-in-one designs, instead of standard containers (STDs), in order to minimize the costs associated with relocating empty containers.

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ECONOMIC BENEFITS OF DEPLOYING FOLDABLE ...

However, this does not generate revenue and incurs container management costs (CMCs). Some container carriers may use foldable containers (FLDs), such as four-in-one ...

4FOLD Reduction of the International Transport of Empty Containers ...

A reduction of 25% on operational costs can be achieved, giving an huge economic boost to the EU logistics sector and the total EU economy. The 4FOLD strengthens the EU ...



The impact of foldable containers on container fleet management costs

This paper analyzes the possibility to save container fleet management costs in repositioning empty containers through the use of foldable containers. We model this entire ...

Foldable Containers to Reduce the Costs of Empty ...

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



(PDF) Economic benefits of deploying ...

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

Zbox Blue Logistics project

As a result, about 25% of the 180 million containers transported on sea are empty, representing a high repositioning cost of EUR 25 billion a year for shipping lines. If foldable, several shipping ...



Foldable Containers: a New Perspective on Reducing Container

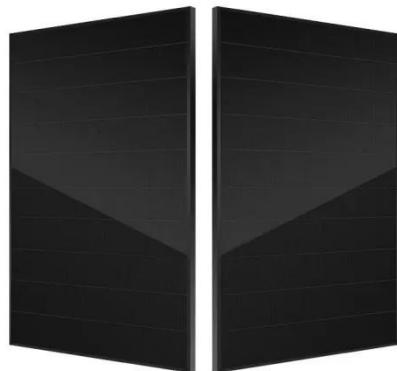
Therefore, foldable containers seem an attractive option from the point of view

of saving transport costs as well as handling and storage costs.



How do foldable containers reduce empty return logistics costs?

The reduction in empty return trips also lowers fuel consumption and carbon emissions, aligning with sustainability goals. Additionally, foldable containers reduce storage costs at ports and ...



(PDF) Economic benefits of deploying foldable containers: ...

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) ...

Robust empty container repositioning considering foldable containers

Moreover, the robust formulation

requires only limited information about the distribution of demand to replicate real-world situations. Computational results show that the ...



Foldable Containers: a New Perspective on ...

Therefore, foldable containers seem an attractive option from the point of view of saving transport costs as well as handling and storage ...

The impact of foldable containers on the cost of empty ...

A simulated annealing algorithm is developed to solve the problem. Numerical experiments are carried out in realistic empty container relocation scenarios. We find that, ...



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