
Off-grid cost of foldable containers used in European airports

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.

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.

Can FLDS reduce empty container port handling time across shipping routes?

We conclude the following: FLDs can reduce empty container port handling time across shipping routes, especially short-distance routes with high TI ratios. The mixed fleet of FLDs and STDs lowers shipping costs, especially for shorter routes.

How does global container shipping work?

Global container shipping has significantly grown during the past two decades (United Nations). Trade volume differences. Traditionally, shipping companies address this by transferring containers between ports using spare ship capacity. However, this does not generate revenue and incurs container management costs (CMCs).

There is little doubt that the requirement to reposition empty containers is one of the more persistent problems in the container transport industry, and is a key factor in cutting ...

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 ...

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 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 ...

For this purpose a cost-benefit analysis is adopted in which four logistic concepts to use foldable containers are presented as a framework for analysis. The costs and benefits of using foldable ...

Understand mobile solar container price differences based on power output, batteries, and container size.

Abstract Because of the extreme imbalance in intercontinental trade, the repositioning of empty containers creates a significant problem for shipping companies. There ...

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

This foldable shipping container can fit up to 10 units into a single 40ft container. Its unique style / setup makes it quick and easy to pop up ...

This study analyses the impact of using foldable containers in terms of cost savings of truck drayage operations, of both loaded and empty containers, in the hinterland of ...

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

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 ...

As previously noted, the foldable container is now used at more than 60 depots and ports and on 15 shipping lines and growing in ...

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 ...

For this purpose a cost-benefit analysis is adopted in which four logistic concepts to use foldable containers are presented as a framework for analysis. The costs and benefits ...

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 ...

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