

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

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) associated with...

Designs of foldable containers, which affect the additional costs, including the costs of the folding and unfolding processes, manufacturing, maintenance, and repair, are key to their use [3].

FLDs can be folded and bundled four high when repositioned, reducing space by 75%, aiding efficient utilization, and lowering the handling burden at ports, meaning they may be more cost-effective than ...

In this paper, we analyse the opportunities for commercial application of foldable containers. For this purpose a cost-benefit analysis is adopted in which four logistic concepts to use foldable containers ...

Cost-Effectiveness The traditional model of single-use packaging is increasingly inefficient, leading to high waste and costs. Folding containers offer a scalable solution, allowing for ...

In this paper we analyse why previous initiatives for foldable containers failed and discuss the conditions required for successful commercial applications.

Foldable containers have the potential to enhance the cost efficiency of the logistics industry and improve the problem of space allocation at seaports.

The presented foldable container passed the tests for international certifications ISO 1496-1 and CSC required for its application on site. Differently from the 4:1 folding ratio adopted by ...

We comprehensively analyzed numerical experiments to illustrate trade-offs between cost savings and potential risks concerning reliability in supply of empty containers by using a mix of ...

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