

Economic Benefits Comparison of 100kWh Using Foldable Containers in Mountainous Areas

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Are foldable containers economically viable?

In order to examine the economic viability of the developed foldable container as compared to a standard 40-ft high-cube container, cost analysis is performed for an example route, i.e., the Busan-Vostochny-Moscow route (Fig. 10), which involves both inland and maritime transportation.

Are foldable containers effective in repositioning empty containers?

Foldable containers are considered an effective solution to deal with the endemic imbalance in the repositioning of empty containers. Several foldable containers were commercialized without clear breakthrough in the market and most current researches are still limited to small pilot projects.

What are the conditions for the success of foldable containers?

Konings and Thijs summarized clearly the conditions for the success of foldable containers in the market: (1) low costs for folding and unfolding the containers; (2) low manufacturing costs; (3) compatibility with existing equipment for intermodal transport; and (4) structural robustness.

How can a foldable container reduce the cost of storage?

The satisfaction of such conditions and the eventual adoption of the foldable container by the market would reduce the operation costs by 50% to 60%, the storage space in yard and depot by 80% and CO₂ emissions by 20% [8,12].

We analyze the effects of foldable containers using a newly developed multi-port and multi-period container planning model. The proposed model is a large-scale optimization problem, for ...

If foldable containers are introduced, more containers can be reused, reducing resource wastage. Moreover, this contributes to the reduction of road traffic volume, port congestion, and carbon ...

In this guide, we will explore various types of foldable shipping containers, their applications, benefits, and technical specifications, providing a comprehensive overview of this ...

The costs and benefits of using foldable containers in these logistic concepts are calculated and compared with the situation in which standard containers are used.



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In this study, the authors analyze the effects of using a restricted number of foldable containers in hinterland areas. Mathematical models were developed to minimize total costs, and various ...

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 ...

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