

# Efficient Financing Solution for Foldable Containers Used in Field Research





## Overview

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Are foldable containers a solution to empty container repositioning?

The paper explores the potential of foldable containers as a solution for the costly issue of empty container repositioning in maritime logistics. Through qualitative research of 23 expert interviews, this study identified barriers like market incentives and operational concerns, while noting financial and environmental benefits as drivers.

Do foldable containers reduce repositioning costs?

In our ECR problem, the shipping company considers both transporting loaded containers and repositioning of empty containers over a planning horizon. Because empty repositioning incurs costs and consumes vessel capacity, foldable containers are used to reduce repositioning costs.

Are foldable containers a good investment?

Despite high purchase costs and the additional folding and unfolding costs of foldable containers, foldable containers have advantages in the reduction of repositioning costs and saving in terms of storage space and vessel capacity.

What are the benefits of a foldable container?

Using the newly developed foldable container can not only significantly reduce logistics costs, but also bring positive environmental impacts such as reducing greenhouse gas that may have arisen from transporting bulky empty containers. Also the foldable container influences social aspects such as noise pollution, local development and employment.



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Do Foldable Containers Enhance Efficient Empty ...

Sep 9, 2022 · Abstract: This study considers the empty container repositioning problem of shipping companies that use standard and 3-in-1 foldable containers with more advanced ...

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Global Foldable Container Market , 2019 - 2030 , Ken Research

Global Foldable Collapsible Container Market valued at USD 1.6 Bn, driven by logistics efficiency, sustainability, and e-commerce growth in regions like Asia Pacific.

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(PDF) Economic benefits of deploying ...

Jun 27, 2024 · This study seeks to explore the effectiveness of employing foldable containers (FLDs) in liner shipping to reduce relocation and the ...

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ANALYZING THE EFFECTS OF USING BOTH FOLDABLE ...

Dec 31, 2021 · 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 ...

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It takes a village: Drivers of and barriers to the adoption of foldable

Jul 3, 2024 · The paper explores the potential of foldable containers as a solution for the costly issue of empty container repositioning in maritime logistics. Through qualitative research of 23 ...

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Do Foldable Containers Enhance Efficient Empty Container ...

May 1, 2021 · Abstract and Figures This study considers the empty container repositioning problem of shipping companies that use standard and 3-in-1 foldable containers with more ...

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Foldable Containers to Reduce the Costs of Empty ...

Aug 23, 2017 · 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. It is shown ...

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Robust empty container repositioning considering foldable containers

Feb 1, 2020 · This paper proposes a robust formulation for the empty container repositioning problem considering foldable containers under demand uncertainty. The robust formulation ...

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Revolutionize Shipping with Foldable Shipping Containers: A ...

Apr 29, 2025 · Traditional shipping containers contribute to these problems, as a considerable percentage of them travel empty. Enter foldable shipping containers--a revolutionary solution ...

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Do Foldable Containers Enhance Efficient ...

May 1, 2021 · Abstract and Figures This study considers the empty container repositioning problem of shipping companies that use standard and 3-in-1 ...

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## Design and Cost-Effectiveness of 5-Tier Foldable Container

Feb 19, 2022 · Foldable containers are considered an effective solution to deal with the endemic imbalance in the repositioning of empty containers. Several foldable containers were ...

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

Jun 27, 2024 · 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) ...

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