



WALMER ENERGY

# Intelligent Government Procurement of Foldable Containers





## 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.

How can a government reduce the cost of a foldable container?

It would also be helpful for governments to invest in research and innovation of the equipment technology for handling foldable containers to reduce the fixed cost. Meanwhile, policies that can motivate container companies to supply more foldable containers to the market would also have a positive effect.

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.



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Robust empty container repositioning considering foldable containers

Feb 1, 2020 · Because of the extreme imbalance in intercontinental trade, the repositioning of empty containers creates a significant problem for shipping companies. There are many efforts ...

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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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'Foldable' container could transform global box logistics

Oct 25, 2024 · A five-in-one foldable container design could boost efficiency and transform the carriages of empties, claims Florida-based Compact Container Systems (CCS).

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Effects of Foldable Containers in Various Circumstances ...

Nov 14, 2024 · Abstract This paper analyzes the effect of foldable containers in various circumstances. Recently, as a result of the COVID-19 pan-demic, many unexpected situations ...

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Optimization of container scheduling considering the use of foldable

Dec 20, 2024 · The imbalance in global trade has led to an uneven distribution of empty containers worldwide, resulting in difficulties in cargo transportation. For instance, import ...

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Empty container repositioning with foldable containers in a ...

Mar 1, 2020 · The results show that introducing foldable containers into empty container repositioning along a river can utilize vessel space more effectively and decrease the total cost ...

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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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The Impacts of Foldable Containers, Street-Turn and ...

Oct 24, 2019 · In this study, we developed a mathematical model for an integrated shipping net-work to investigate the impact of street-turn, depot-direct, using foldable containers, and ...

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ANALYZING THE EFFECTS OF USING BOTH FOLDABLE ...

Dec 31, 2021 · A shipping company can also reposition empty containers from surplus ports to deficit ports. These strategies must be completed while minimizing the total costs for ...

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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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(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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'Foldable' container could transform global ...

Oct 25, 2024 · A five-in-one foldable container design could boost efficiency and transform the carriages of empties, claims Florida-based Compact ...

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