

BLINK SOLAR

Long-term unit price of foldable containers used in port terminals



Overview

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.

What is the unit holding cost of a foldable container?

We let $H_iS=0.2$, $H_iF=0.1$, $P_iS=2$, $P_iF=4$, $FC_i=0.1$, and $UC_i=0.1$ for all five ports. The unit holding cost of foldable containers is the half of that of standard containers, because foldable containers are stored with folded state.

What are the operating costs of a foldable container?

z_{it}^F inventory level of foldable containers at port i at the end of period t The total operating cost consists of consists of transportation, repositioning, holding, penalty, folding, and unfolding costs. The transportation costs consist of expenses incurred during container flow.

How foldable containers affect the cost of shipping?

Furthermore the use of foldable containers can have significant impact on the cost of shipping. Shipping companies can save the additional costs of handling and carrying empty containers when they call at a port and the additional capacity in the ship can be used for extra cargo.

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Paper Title (use style: paper title)

Should foldable containers prove feasible operationally, they have the potential to emerge as a truly disruptive innovation in the container shipping industry in the coming ...

ANALYZING THE EFFECTS OF USING BOTH FOLDABLE ...

The use of foldable containers reduces inventory and repositioning costs by saving on storage space, but it involves folding and unfolding costs. Therefore, whether foldable ...



Robust empty container repositioning considering foldable containers

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

(PDF) Economic benefits of deploying ...

This resolves a minimum-cost multi-commodity network flow problem by optimizing container fleet size and empty container relocation ...



Foldable Containers to Reduce the Costs of Empty Transport? A Cost

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 ...

Microsoft Word

Abstract--This study investigates the commercial viability of foldable containers from a carrier's perspective. A cost-benefit analysis is conducted for operating regular and foldable



ARE COLLAPSIBLE CONTAINERS A VIABLE SOLUTION TO ...

In a port-to-port set-up, they found that by folding and bundling empty



containers in ports and depots, a cost savings of \$420 was achieved when 5 empty foldable containers ...

ARE COLLAPSIBLE CONTAINERS A VIABLE ...

In a port-to-port set-up, they found that by folding and bundling empty containers in ports and depots, a cost savings of \$420 ...



Cost Comparison: Transporting Foldable vs. Fixed Container Units

Foldable containers can reduce shipping costs by up to 40% for return trips, as multiple collapsed units occupy the space of a single fixed container. This efficiency is particularly beneficial for ...

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

This resolves a minimum-cost multi-commodity network flow problem by

optimizing container fleet size and empty container relocation in a multi-port shipping service network.



Improving Logistics Management Using Foldable/Collapsible Containers...

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

ECONOMIC BENEFITS OF DEPLOYING FOLDABLE ...

ECONOMIC BENEFITS OF DEPLOYING FOLDABLE CONTAINERS: REDUCING BUNKER AND CONTAINER MANAGEMENT COSTS IN A MULTI-PORT SHIPPING ...



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