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# **Economic Benefits Comparison of 30kWh Using Foldable Containers at Port Terminals**

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.

Can FLDS reduce empty container port handling time across shipping routes?

We conclude the following: FLDS can reduce empty container port handling time across shipping routes, especially short-distance routes with high TI ratios. The mixed fleet of FLDS and STDs lowers shipping costs, especially for shorter routes.

How can container terminals be used for future planning?

The results can also be used for future planning of operating patterns and layout selection in container terminals. As a logistics hub between land and sea transportation, container terminals perform an absolutely critical function in the seaborne trade.

How many foldable containers are needed for the Inland network?

Out of a total of about 5000 containers, an estimated fleet and critical mass of just 695 foldable containers are required for the inland network under study (and the rest of the containers being conventional ones), with a 71% load factor on the back haul.

Finally, we scaled the overall kWh/TEU for all equipment based on annual container throughput for the top-25 U.S. container ports to estimate the annual energy ...

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 ...

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) ...

The contributions of each container-handling equipment to the energy consumption and CO<sub>2</sub> emissions were estimated and evaluated using statistical analysis.

????????? ECONOMIC BENEFITS OF DEPLOYING FOLDABLE CONTAINERS: REDUCING BUNKER AND CONTAINER MANAGEMENT COSTS IN A ...

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In particular, the viability of foldable containers as an instrument of carbon offsetting for the shipping industry is explored. A shadow pricing approach has been adopted to predict ...

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

Seasonal patterns and mixing percentages of foldable and standard containers on the route, may also produce cost-effective solutions. Sensitivity analysis reveals that benefits from using ...

The findings show that most of the benefits assumed by an individual terminal operator materialized once the automated terminal was in operation. An analysis of the gaps ...

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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