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## Two-way charging using foldable containers on islands

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.

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.

Could offshore charging stations improve green shipping?

Offshore charging stations could be a promising solution to enhance green shipping. This research considers their optimal placement and sizing, extending the economic range of renewable ships to 9,000 km without compromising shipping efficiency.

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.

1. INTRODUCTION Global container shipping has significantly grown during the past two decades (United Nations [20]). This growth has resulted in several challenges, ...

A B S T R A C T This paper investigates rental pricing and empty container repositioning (ECR) strategies for a one-way container rental service (OCRS). The proposed ...

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

Navlandis, a technology start-up supported by EIT InnoEnergy, has developed a new generation of foldable shipping containers to reduce environmental and economic footprints from sea ...

This paper analyzes the possibility to save container fleet management costs in repositioning empty containers through the use of foldable containers. We model this entire ...

Ships play a pivotal role in facilitating travel to and from islands. Unlike mainland areas, islands often face challenges in accessing conventional energy sources like diesel, ...

This study considers the empty container repositioning problem of shipping companies that use standard and 3-in-1 foldable ...

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Abstract This study analyses the impact of using foldable containers in terms of cost savings of truck drayage operations, of both loaded and empty containers, in the ...

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

The containerized mobile foldable solar panel is an innovative solar power generation device that combines the portability of containers ...

Download scientific diagram | Laden and Empty Foldable Container Movements (with Inland Repositioning and Export Shipment in Back ...

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 ...

To fill the research gap addressing the operational and technical aspects of using foldable containers, we systematically analyzed the effects of using foldable containers in the first ...

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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