

Cost-effectiveness analysis of foldable container grid-connected models

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 problem, for which we ...

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 that the use of ...

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) associated with...

FLDs can be folded and bundled four high when repositioned, reducing space by 75%, aiding efficient utilization, and lowering the handling burden at ports, meaning they may be more cost-effective than ...

In this study, we conducted an analysis of the effects of using foldable containers in various circumstances, with particular emphasis on addressing the issue of container imbalances.

We comprehensively analyzed numerical experiments to illustrate trade-offs between cost savings and potential risks concerning reliability in supply of empty containers by using a mix of ...

Abstractainers, the key factors affecting the use of foldable containers are found out. The mixed integer linear programming model is used to compare the total transportation cost whether install fold/unfold ...

This paper presents the design of a new 5-tier stacking foldable container with convenient folding and unfolding process and that can be produced economically compared to ...

The presented foldable container passed the tests for international certifications ISO 1496-1 and CSC required for its application on site. Differently from the 4:1 folding ratio adopted by most previous ...

In this paper we analyse why previous initiatives for foldable containers failed and discuss the conditions required for successful commercial applications.

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