

Title: Off-network cost of foldable containers for base stations in Africa

Generated on: 2026-03-27 06:19:32

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Do foldable containers generate revenue?

However, this does not generate revenue and incurs container management costs (CMCs). Some container carriers may use foldable containers (FLDs), such as four-in-one designs, instead of standard containers (STDs), in order to minimize the costs associated with relocating empty containers.

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.

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.

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.

By bypassing the need to transport empty containers to a dedicated folding facility and instead folding and bundling them on-site, we achieve significant cost savings.

In this study, we developed a mathematical model for an integrated shipping network to investigate the impact of street-turn, depot-direct, using foldable containers, and container ...

We use the model to minimize total transportation costs, inventory holding, handling, folding and unfolding, container leasing, and installing facilities that accommodate foldable...

Motivated by an ocean carrier's recent trial of foldable containers and their possible role in revolutionizing the shipping industry, this paper seeks to address the above knowledge gaps by ...

The price of containers in South Africa depends on size, condition, and supplier. On average, a used 6-metre

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container costs between R20,000 and R35,000, while a 12-metre ...

Containers are concentrated in the wrong areas due to high demand and the reluctance to ship empty containers back to other ports. This is driven by disruptions in long-haul and intra-Asia ...

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