

**EQACC SOLAR**

# **Scalable Cost Analysis of Foldable Containers**



## Overview

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Are foldable containers economically feasible?

Heuristic algorithms are proposed to solve the mathematical models. Numerical experiments are carried out in several scenarios to demonstrate the economic feasibility of foldable containers. The sensitivity analysis shows that the purchasing cost and the transportation cost affect the use of foldable containers.

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.

Will foldable containers be less expensive in the future?

Currently, foldable containers with lower production costs have been designed in several studies. Moreover, when foldable containers can be produced on a large scale, their purchasing cost can fall. It is expected that foldable containers will be less expensive in the future. Third, an experiment has been conducted on the transportation cost.

How much does a foldable container cost?

For the sensitivity analysis, the purchasing price of a foldable container is assumed to be twice as much as that of a standard container. Four foldable containers take up as much space as a standard container when folded and packed together. The folding and unfolding costs are the same; they are assumed to be approximately 50USD per handling.

## Scalable Cost Analysis of Foldable Containers

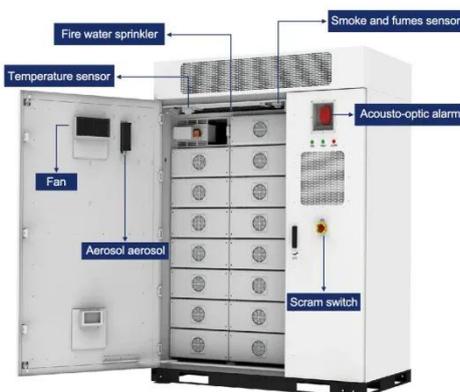


### Foldable Containers to Reduce the Costs of Empty ...

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 ...

### ECONOMIC BENEFITS OF DEPLOYING FOLDABLE ...

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 ...



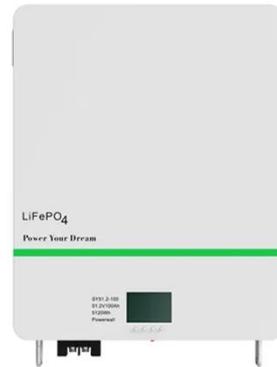
### Commercial Viability of Foldable Ocean Containers

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

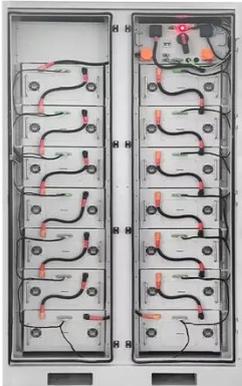
### Robust empty container repositioning considering foldable

## containers

Then, we conduct simulations for further analysis such as cost-saving effects of foldable containers, cost ratio of total operating costs, and container storage at depots of ports.



To Strive forward No Energy Waste



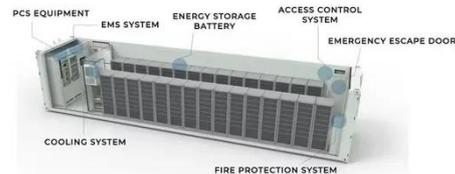
- ✓ All in one
- ✓ 100~215kWh High-capacity
- ✓ Intelligent Integration

## Foldable and standard containers in empty container repositioning

Heuristic algorithms are proposed to solve the mathematical models. Numerical experiments are carried out in several scenarios to demonstrate the economic feasibility of ...

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

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 impact of foldable containers on the cost of empty container

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 hinterland of ...



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### **(PDF) Commercial Viability of Foldable Ocean ...**

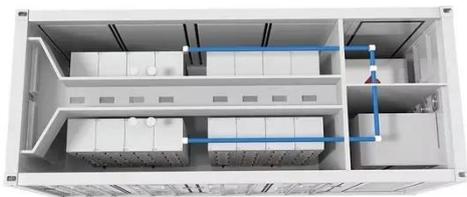
A cost-benefit and sensitivity analysis is conducted for operating regular and foldable containers over their respective lifespans.



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### **ANALYZING THE EFFECTS OF USING BOTH FOLDABLE ...**

A shipping company can also reposition empty containers from surplus ports to deficit ports. These strategies must be completed while minimizing the total costs for ...



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### **(PDF) Commercial Viability of Foldable Ocean Containers**

A cost-benefit and sensitivity analysis is conducted for operating regular and foldable containers over their respective lifespans.



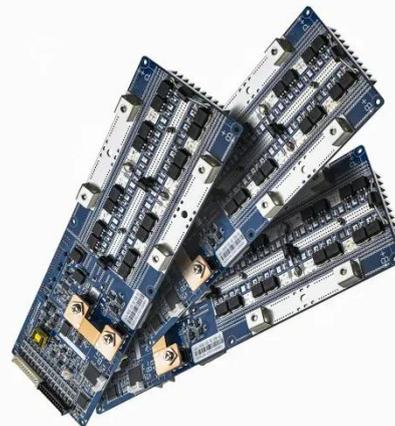
## Design and Cost-Effectiveness of 5-Tier Foldable Container



In addition, cost analysis is also implemented for both transborder and transcontinental shipments to demonstrate the economic viability of the proposed foldable ...

### (PDF) Economic benefits of deploying ...

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



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