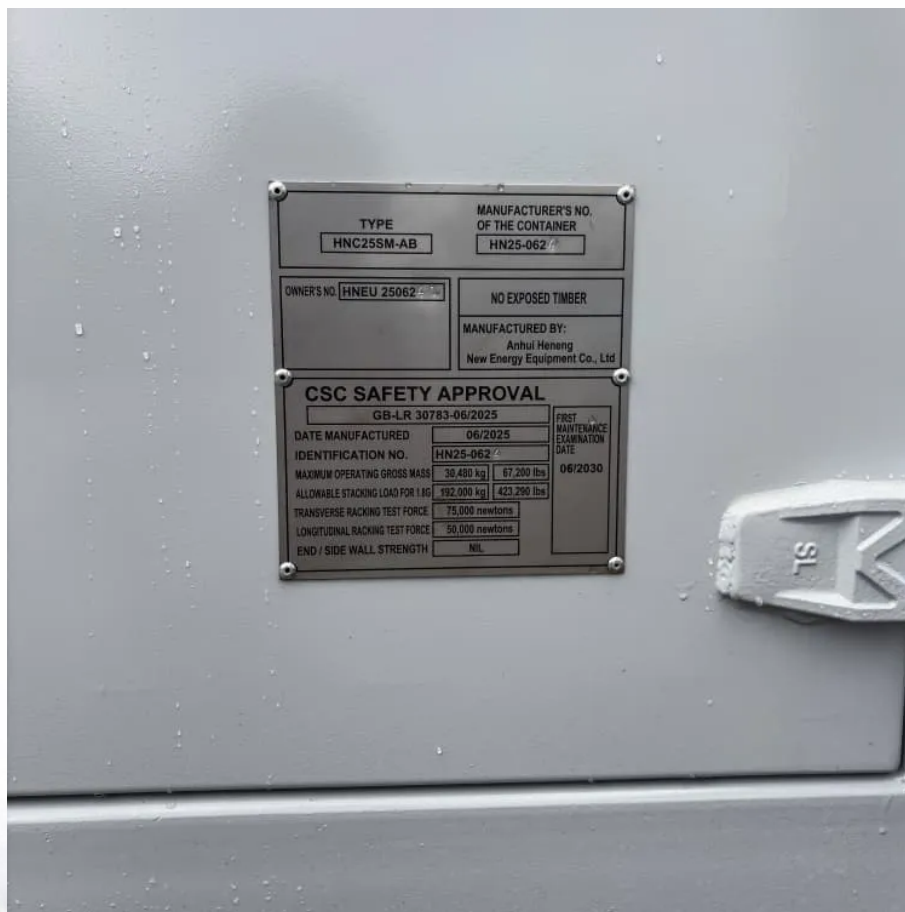


Scalable Trading Terms for Foldable Containers Used in Field Research





Overview

Because of the extreme imbalance in intercontinental trade, the repositioning of empty containers creates a significant problem for shipping companies. There are many efforts to reduce the cost of repositioning.

Are foldable containers a good investment?

Despite high purchase costs and the additional folding and unfolding costs of foldable containers, foldable containers have advantages in the reduction of repositioning costs and saving in terms of storage space and vessel capacity.

Do foldable containers reduce repositioning costs?

In our ECR problem, the shipping company considers both transporting loaded containers and repositioning of empty containers over a planning horizon. Because empty repositioning incurs costs and consumes vessel capacity, foldable containers are used to reduce repositioning costs.

Do commercialized foldable Containers save money?

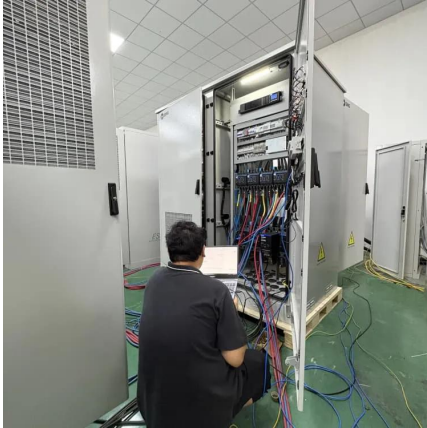
The operating costs do not include fixed or purchase costs of the foldable containers, which may be very costly. Nevertheless, a considerable cost saving may be realized for using commercialized foldable containers. Table 4. Computational results using standard containers only with different holding costs.

Can foldable containers be used in maritime transportation?

Computational results show that the proposed formulation performs well in terms of operating costs and there exists a significant cost-saving effect when foldable containers are used in maritime transportation. Previous article in issue
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Keywords OR in maritime industry Empty container repositioning Foldable container



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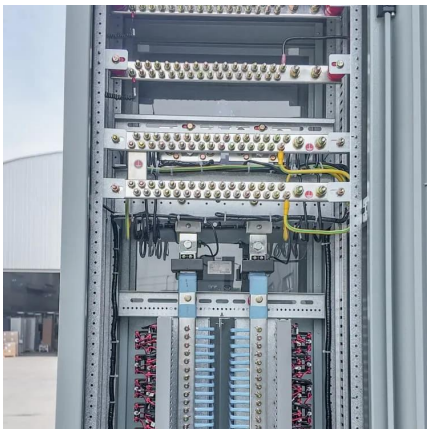
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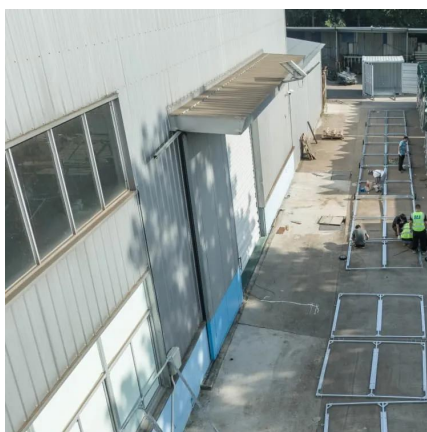
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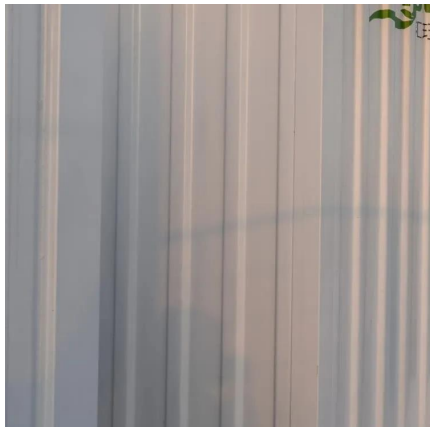
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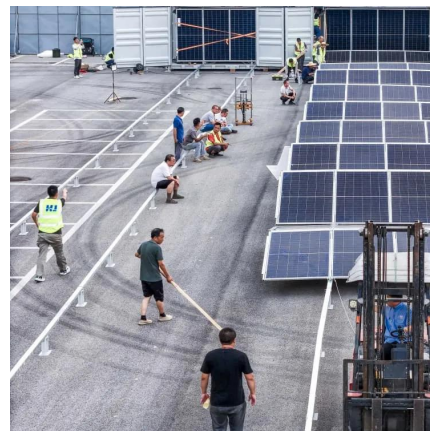


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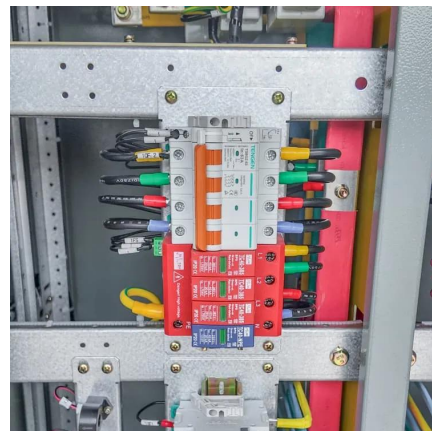


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The Foldable Container Market Size was estimated at USD 21.29 billion in 2024. The industry is expected to grow from USD 23.35 billion in 2025 to USD 53.50 billion by 2034



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