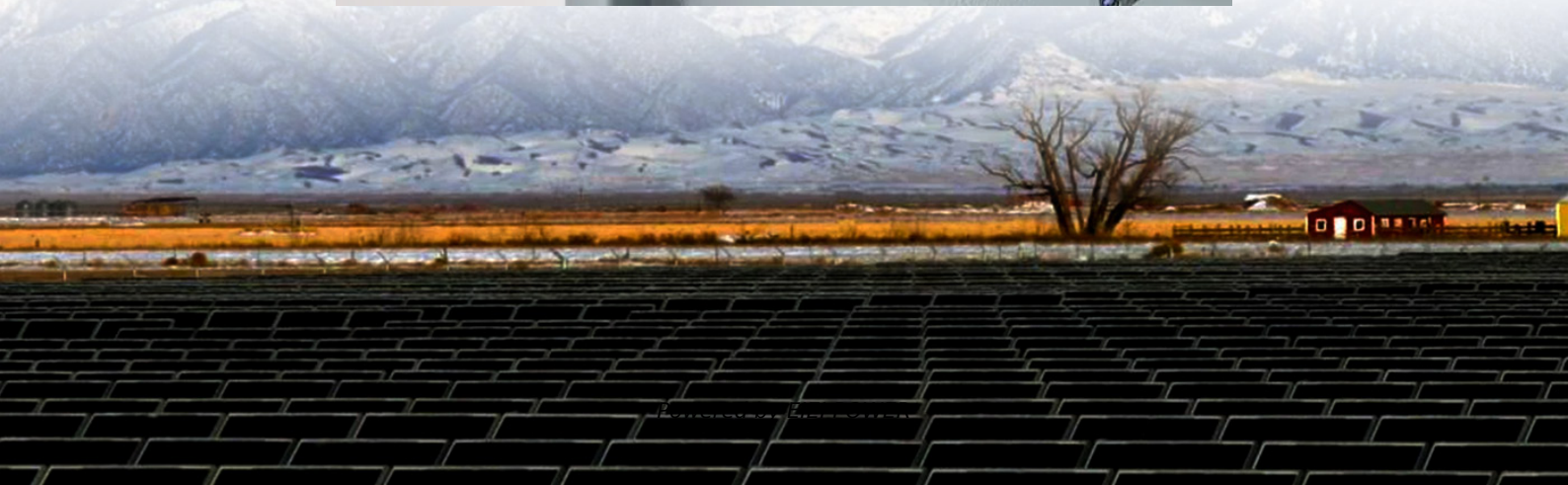


# Off-network cost of foldable containers for European base stations





## Overview

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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.

How to reduce the cost of repositioning empty containers?

There are many efforts to reduce the cost of repositioning empty containers, one of which is a foldable container. Foldable containers can be transported in a package such that a few folded containers occupy the same volume as one standard container.

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.

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.



## Off-network cost of foldable containers for European base stations



### [ECONOMIC BENEFITS OF DEPLOYING FOLDABLE ...](#)

Jun 26, 2024 · ECONOMIC BENEFITS OF DEPLOYING FOLDABLE CONTAINERS: REDUCING BUNKER AND CONTAINER MANAGEMENT COSTS IN A MULTI-PORT SHIPPING ...

### [Foldable Containers to Reduce the Costs of Empty ...](#)

Aug 23, 2017 · However, much depends on the additional costs that foldable containers cause, that is, the cost of folding and unfolding, additional exploitation costs and any additional ...



### [The impact of foldable containers on the cost of empty ...](#)

Apr 23, 2020 · 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 ...

## **The impact of foldable containers on the cost of empty container**

A simulated annealing algorithm is developed to solve the problem. Numerical experiments are carried out in realistic empty container relocation scenarios. The authors find that, under ...



### [Zbox Blue Logistics project](#)

As a result, about 25% of the 180 million containers transported on sea are empty, representing a high repositioning cost of EUR 25 billion a year for shipping lines. If foldable, several shipping ...

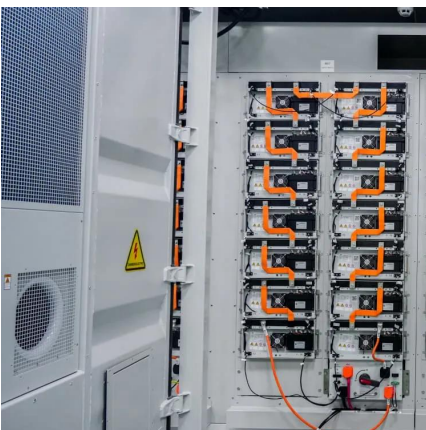
### [\(PDF\) Economic benefits of deploying foldable containers: ...](#)

Jun 27, 2024 · 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) ...



### **4FOLD Reduction of the International Transport of Empty Containers ...**

Jan 4, 2016 · A reduction of 25% on operational costs can be achieved, giving an huge economic boost to the EU logistics sector and the total EU economy. The 4FOLD strengthens the EU ...





[\(PDF\) Economic benefits of deploying ...](#)

Jun 27, 2024 · This study seeks to explore the effectiveness of employing foldable containers (FLDs) in liner shipping to reduce relocation and the ...



**The impact of foldable containers on the cost of empty container**

Dec 3, 2025 · 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 ...

[the benefits for reduced transport costs](#)

Dec 2, 2025 · Holland Container Innovations (HCI) was founded in 2008 as a spin-off from Delft University of Technology (TU Delft) in The Netherlands, with a vision to develop a ...



**Robust empty container repositioning considering foldable containers**

Feb 1, 2020 · Because of the extreme imbalance in intercontinental trade, the repositioning of empty containers creates a significant problem for shipping companies. There are many efforts ...



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