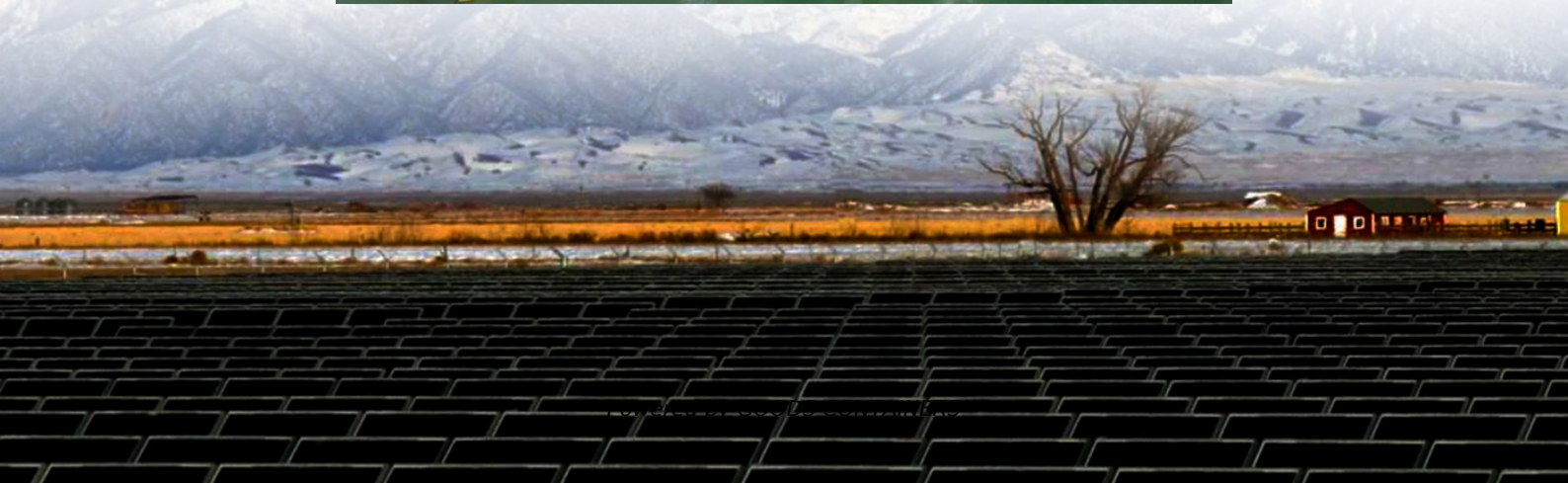


# High-Efficiency Procurement Contract for Foldable Containers





## Overview

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What are the operating costs of a foldable container?

Let  $F_t$  be the inventory level of foldable containers at port  $i$  at the end of period  $t$ . The total operating cost consists of transportation, repositioning, holding, penalty, folding, and unfolding costs. The transportation costs consist of expenses incurred during container flow.

What is a reusable folding steel intermediate bulk container (IBC)?

FOLDPAC is a reusable folding steel Intermediate Bulk Container (IBC). It is a logistics device designed to efficiently transport and store liquid products, rubber products, and small-sized machinery parts. It is optimized for loading into maritime containers and is suitable for global exports and imports.

How do foldable containers affect a shipping company's decision-making process?

The introduction of foldable containers affects the operational-level planning decisions at shipping companies, which makes the decision process very complex. The flow of loaded containers is a source of empty containers at the destined port, and the vessel capacity is shared by loaded and empty containers.

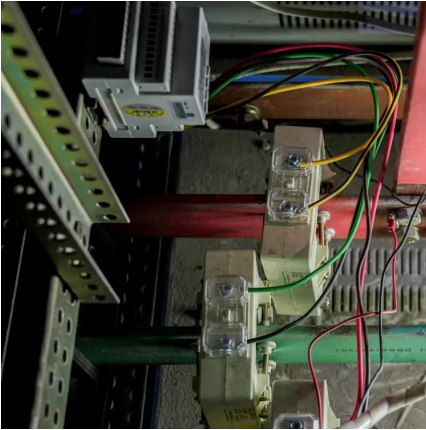
Do foldable containers reduce repositioning costs?

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.



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### [Learn everything about foldable containers](#)

In the dynamic world of project cargo logistics, efficiency and cost-effectiveness are paramount. Introducing foldable containers--an innovative solution designed to revolutionize ...

### **Robust empty container repositioning considering foldable containers**

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



### [Effects of Foldable Containers in Various Circumstances ...](#)

However, the optimal number of foldable containers differs in each situation, and the cost of fold-able containers is high. To address this, we propose implementing effective ...

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