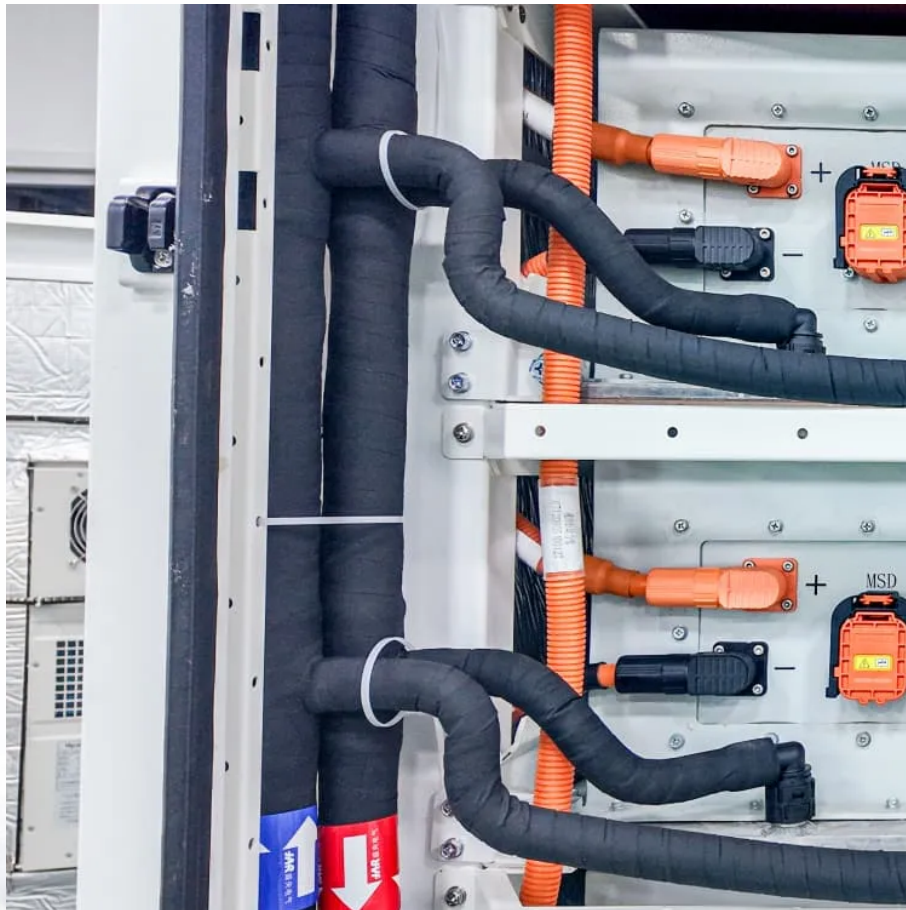


# **Cost of a single phase for a folding container used in a subway station**





## Overview

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Strategies to reposition empty containers are an unabated issue for shipping companies. This study compares the repositioning costs of foldable containers to those of standard containers. Mathematical mod.

How much does a standard container cost?

The purchasing price of a standard container, which is amortized for a year, is 946USD per container for a shipping company while that price of a foldable container is 1,892USD per container. 5.2.1. Experiments on Models 1 and 2 Experiments are conducted to compare the cost of using standard containers with that of using foldable 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.

Should standard containers be replaced by foldable containers?

Hence, it is necessary to determine the conditions in which standard containers should be replaced by foldable containers. Similar to the experiments for Models 1 and 2, four situations will be considered: an increase in demand, a decrease in the purchasing price, an increase in the transportation cost, and a decrease in the folding/unfolding cost.



## Cost of a single phase for a folding container used in a subway station

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