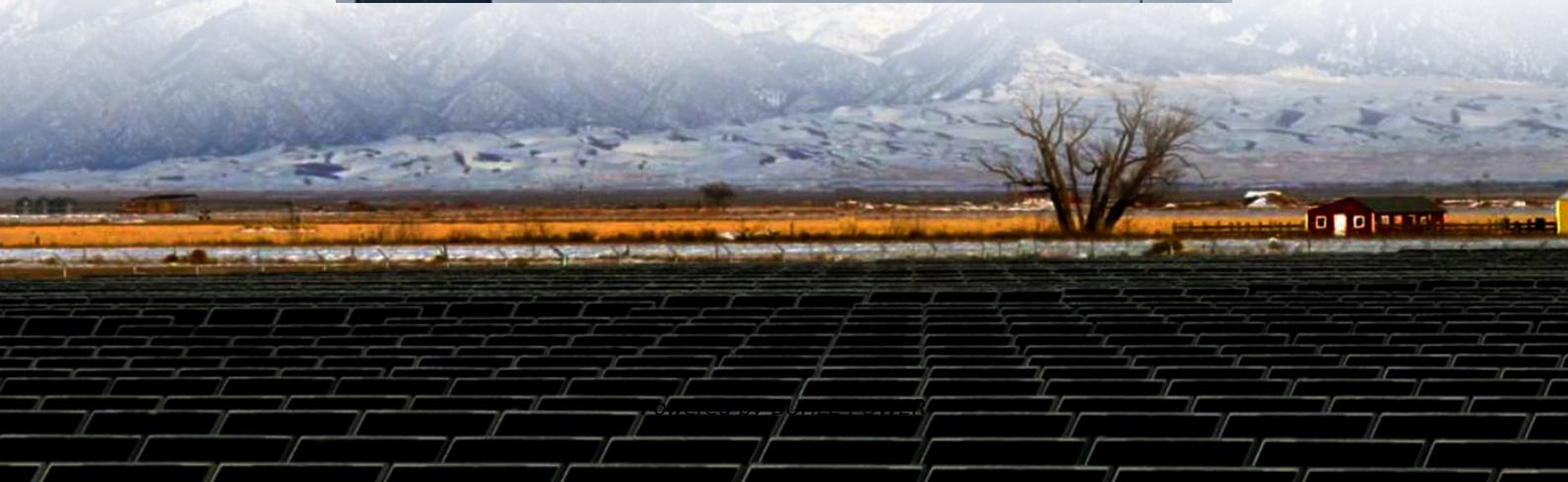
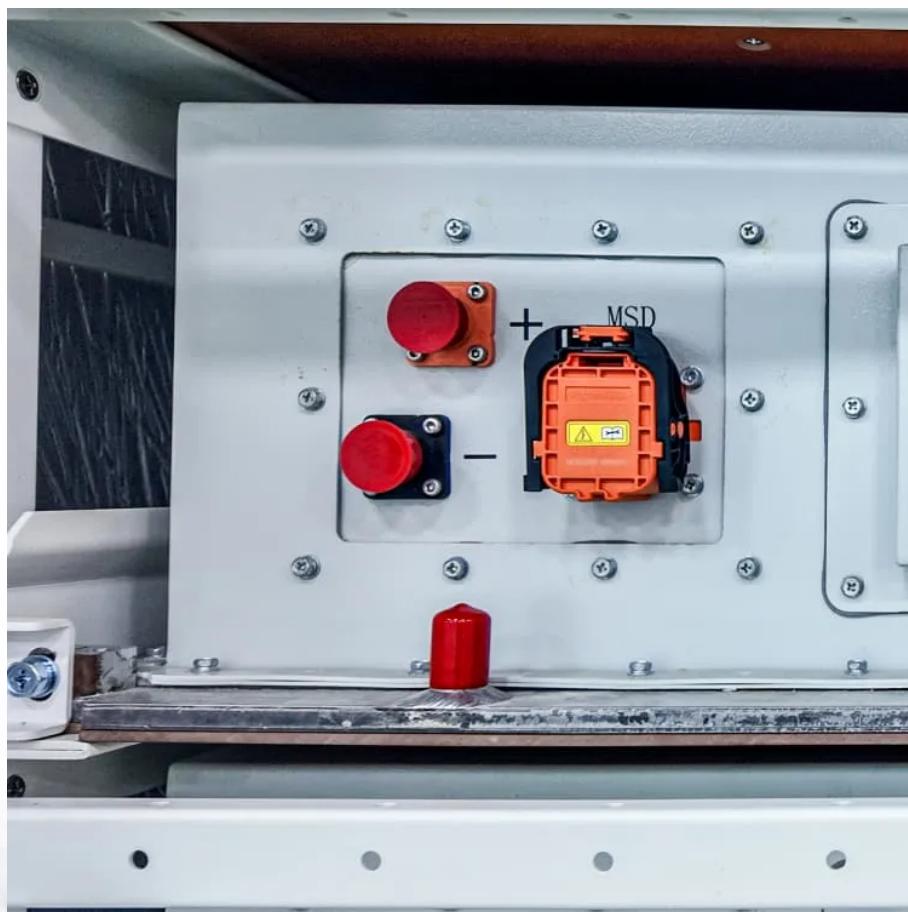




BUHLE POWER

# Long-term mobile energy storage containers for port terminals





## Overview

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What is containerized energy storage?

ABB's containerized energy storage solution is a complete, self-contained battery solution for a large-scale marine energy storage. The batteries and all control, interface, and auxiliary equipment are delivered in a single shipping container for simple installation on board any vessel. How does containerized energy storage work?

What energy storage technologies can a seaport use?

Thanks to the rich energy sources, ports, especially large seaport integrated energy systems, can apply various energy storage technologies such as electric energy storage, thermal energy storage, natural gas storage, and hydrogen storage.

Why is energy storage a critical port function?

Ensuring availability of these electrical resources to meet loads which are intermittent and uncertain is becoming a critical port function. It requires investment in multi-vector energy supply chains, energy storage in ports and their associated energy management systems.

How does a maritime energy storage system work?

The maritime energy storage system stores energy when demand is low, and delivers it back when demand increases, enhancing the performance of the vessel's power plant. The flow of energy is controlled by ABB's dynamic Energy Storage Control System.



## Long-term mobile energy storage containers for port terminals



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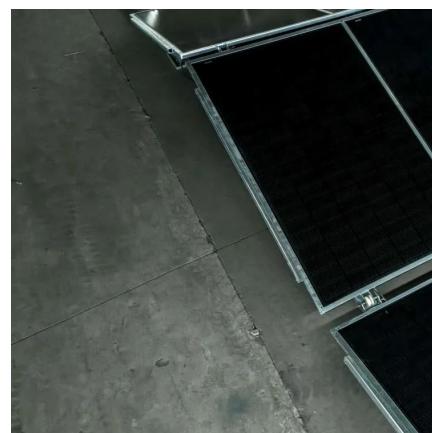
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The end-user segment of the containerized battery energy storage for ports market comprises commercial ports, industrial ports, container terminals, and others, each with distinct ...



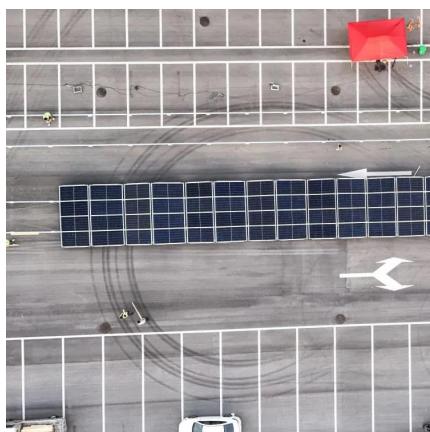
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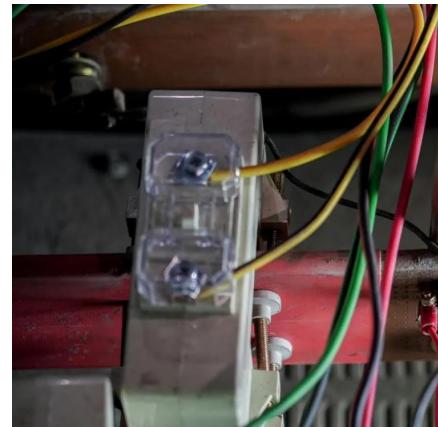
## How does energy storage help with terminal decarbonisation?

The Role of Energy Storage in Terminal Decarbonisation Energy storage systems are essential components in terminal decarbonisation strategies, enabling ports to effectively manage power ...



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