

# Large-capacity energy storage containers for port terminals



## Overview

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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.

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?

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.

How can ports reduce energy costs?

ESSOP has explored two ways in which ports can minimize their energy costs by using energy storage:

- Optimising how to use PV solar generation to offset grid electricity. The wholesale price of energy varies every half-hour, and on a time-of-day tariff this variation is passed onto users.

## Large-capacity energy storage containers for port terminals



### CATL Launches World's First 9MWh Ultra-Large Capacity

Landmark innovation pairs high capacity with flexible transport, redefining large-scale energy storage. CATL today unveiled the TENER Stack, the world's first 9MWh ultra-large ...

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### CATL Unveils TENER Stack: The World's First 9MWh Ultra-Large Capacity

A landmark innovation merging high capacity, transport flexibility, and safety to redefine grid-scale energy storage. At ees Europe 2025 in Munich, CATL debuted the TENER ...



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#### LIQUID COOLING ENERGY STORAGE SYSTEM

EMS real-time monitoring  
No container design  
flexible site layout



### ENERGY STORAGE FOR PORT ELECTRIFICATION

The optimal solution for a port depends on multiple factors including: capacity of grid connection and cost of potential expansion of connection capacity; access to in-port ...

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## World's First Mass-Producible! CATL Launches 9MWh Ultra-Large-Capacity

On May 7th, 2025, CATL has unveiled the world's first mass-producible 9MWh ultra-large-capacity energy storage system solution, TENER Stack, setting a new industry ...

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## World's First Mass-Producible! CATL Launches ...

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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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## CATL's TENER Stack Redefines Energy Storage with 9MWh Capacity ...

Contemporary Amperex Technology Co. Limited (CATL) has launched the world's

first 9MWh ultra-large capacity energy storage system, the TENER Stack, at the ees Europe ...

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## **Energy Storage Container: Innovating Efficient and Flexible ...**

Discover our Container Battery Energy Storage systems offering scalable, high-capacity, and modular solutions ideal for industrial, commercial, and renewable energy applications. ...

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## **CATL Launches World's First 9MWh Ultra ...**

Landmark innovation pairs high capacity with flexible transport, redefining large-scale energy storageCATL today unveiled the TENER ...

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## **Xiamen Port Makes History with First Shipment of 40-ton**

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On February 23, under the joint

supervision of the Xiamen Port Authority and the Xiamen Maritime Safety Administration, 11 super heavy containerized lithium battery energy ...

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## Containerized Maritime Energy Storage , ABB Marine & Ports

ABB's Containerized Energy Storage System is a complete, self-contained battery solution for a large-scale marine energy storage. The batteries and converters, transformer, controls, ...

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## Port energy storage system, RTGs energy ...

Ports and container terminals are important hubs for global trade in goods. Port container handling is mainly done using Rubber-Tired ...

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## Port energy storage system, RTGs energy storage system

Ports and container terminals are important hubs for global trade in goods. Port container handling is mainly done



using Rubber-Tired Gantry Cranes (RTGs). Energy costs, ...

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