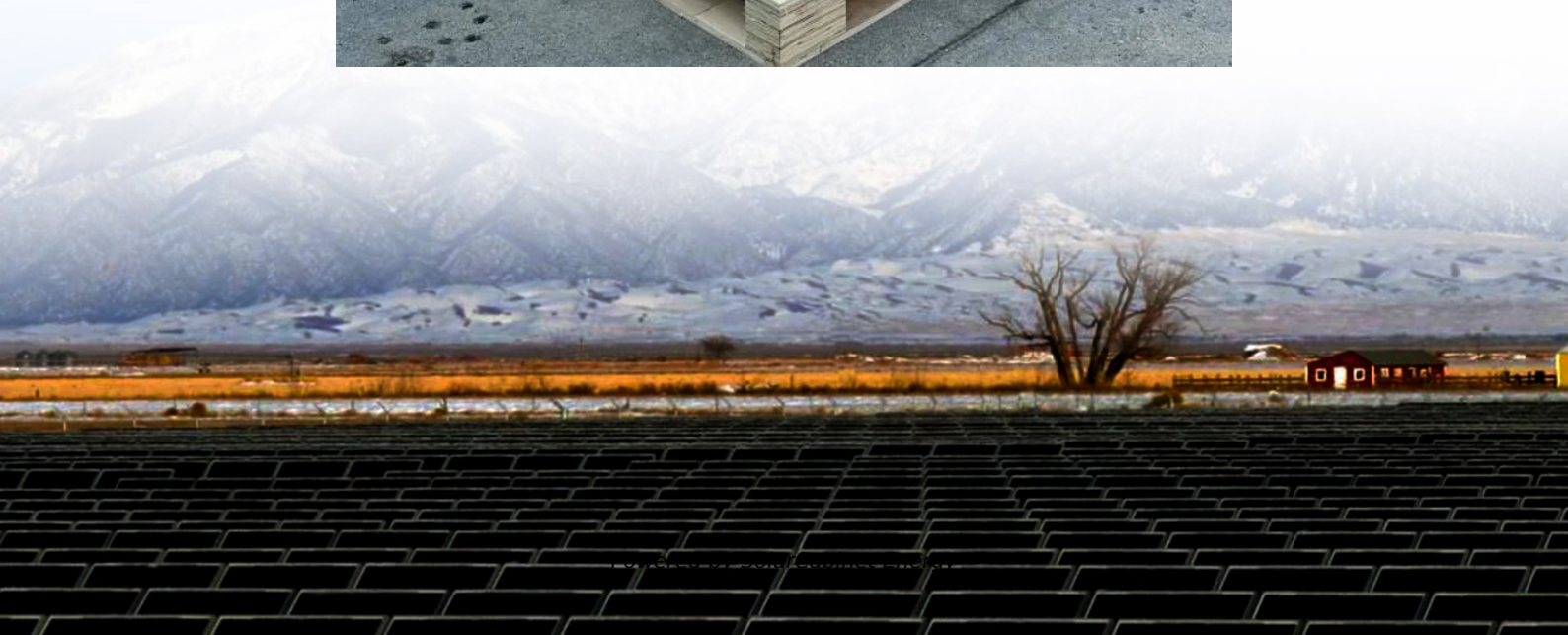


Is container energy storage a dangerous good





Overview

Are battery energy storage systems a threat to maritime safety?

12. March 2025 In recent years, demand for the maritime transportation of containerised Battery Energy Storage Systems (BESS) has grown significantly. However, due to the high safety risks associated with energy storage containers, their transportation poses new challenges to maritime safety.

Are battery energy storage systems safe aboard ships?

In recent months, Gard has received numerous inquiries about the safe transportation of battery energy storage systems (BESS) aboard ships. This article addresses some of the key risks, regulatory requirements, and recommendations for shipping such cargo.

What are the risks of energy storage systems?

Overweight risks Due to the large size and mass of energy storage systems, individual units usually weigh over 30 tons. They face higher risks of dropping, impact and vibration during loading, unloading, and transportation.

What is a battery energy storage system (BESS)?

The transportation of a Battery Energy Storage System (BESS) is one of the most important-but widely disregarded-steps for the completion of the project. Lithium-Ion Phosphate batteries (LFP) are designed to provide high amounts of power, but they can produce high amounts of heat that cause fires.

Why are batteries classified as dangerous goods?

Because batteries are classified as dangerous goods due to fire and explosion risk. That means stricter packaging, labelling, documentation, and carrier approvals. This guide explains everything you need to know to stay compliant and avoid costly delays – from battery classifications to mode-specific rules and best practices for shipping safely.



What are the different types of energy storage systems?

These systems consist of multiple devices assembled into a single unit capable of storing significant amounts of energy. Among the various types of energy storage systems (ESS), BESS are the most prevalent, especially those utilizing pre-assembled lithium-ion battery modules.



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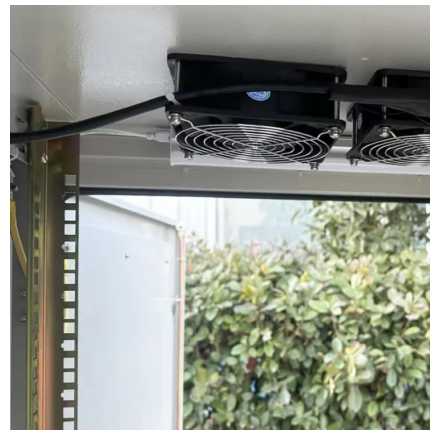


[Ensuring the Safe Transport of Battery Energy Storage Systems ...](#)

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[Research summary - Marine transport of energy storage systems ...](#)

This research evaluated the hazards of commercially available energy storage system (ESS) types for transportation by the marine mode in enclosed vessel spaces according to the ...



[Ensuring the Safe Transport of Battery Energy Storage Systems ...](#)

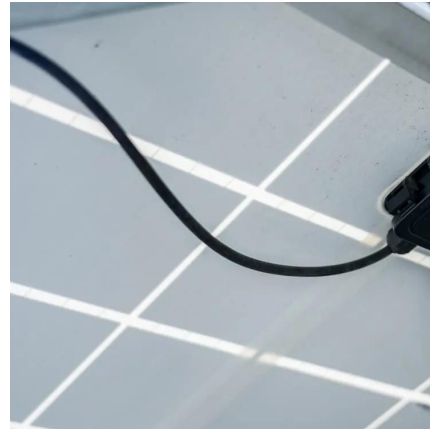
HUIN International Logistics offers expert, safe transport solutions for Battery Energy Storage Systems (BESS), ensuring reliability and compliance throughout the entire shipping process.

[Shipping Commercial Battery Energy Storage Systems Safely](#)

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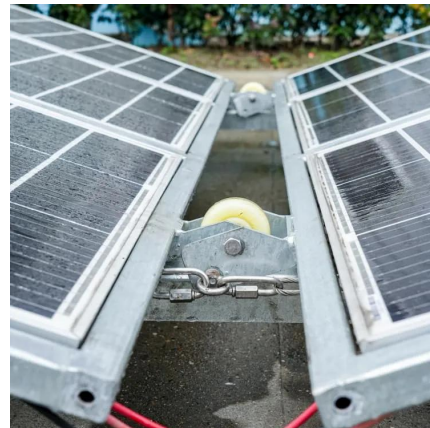


[Why Are Energy Storage Containers So Expensive? The Hidden ...](#)

An energy storage container is not just a "battery container" -- it is a critical infrastructure that ensures the safety, stability, and long-term efficiency of your energy storage project.

[Battery Shipping: Classification, Best Practices, and more . Maersk](#)

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Risks associated with transporting containerised Battery Energy Storage

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[Guidelines for shipment of Lithium-Ion Batteries by sea published](#)

The Lithium-ion Batteries in Containers Guidelines seek to prevent the increasing risks that the transport of lithium-ion batteries by sea creates, providing suggestions for identifying such ...



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