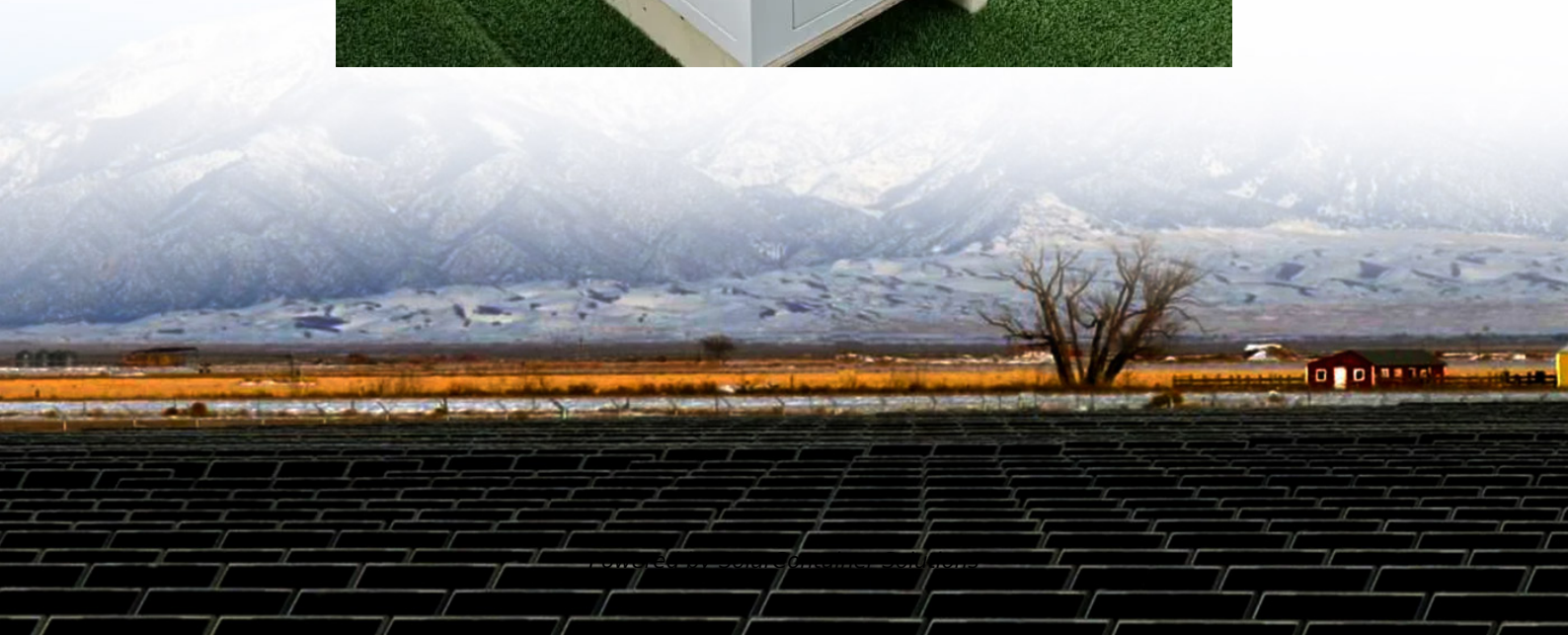


Is the energy storage container system a dangerous good





Overview

According to the International Maritime Dangerous Goods Code (IMDG Code), BESS is classified as Class 9 hazardous goods, with the United Nations number UN3536. The maritime transportation of BESS primarily involves the following risks: Lithium battery safety risks

Are battery energy storage systems safe on ships?

Gard published that in the past few months, has received several queries on the safe carriage of battery energy storage systems (BESS) on ships and highlights some of the key risks, regulatory requirements, and recommendations for shipping such cargo.

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.

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 containerized lithium battery energy storage system?

SCU's containerized lithium battery energy storage system adopts a modular design, with the characteristics of high energy density and high efficiency. It can be widely used in various scenarios such as industrial and commercial energy storage, renewable energy grid connection, microgrid and off-grid power systems.

Are energy storage systems equipped with lithium-ion batteries dangerous?

Our focus in this article is therefore on energy storage systems equipped with



lithium-ion batteries. Declaration of BESS Siddharth Mahajan, Senior Loss Prevention Executive, Singapore highlights that BESS with lithium-ion batteries is classed as a dangerous cargo, subject to the provisions of the IMDG Code.

Does SCU have a lithium battery energy storage system container certification?

Recently, SCU successfully obtained the UN3536 certification for lithium battery energy storage system container.



Is the energy storage container system a dangerous good



Gard: Safe carriage of Battery Energy Storage Systems on ships

Potential fire and explosion hazards of Lithium-ion batteries have become a "hot topic" in the shipping industry, as detailed in this recent Gard article. As a precautionary ...

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Risks associated with transporting containerised Battery Energy Storage

In recent years, demand for the maritime transportation of containerised Battery Energy Storage Systems (BESS) has grown significantly. However, due to the high safety ...

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[Dangerous Goods Containers , Safe & Compliant ...](#)

What are dangerous goods containers?
Dangerous goods containers are repurposed shipping containers modified to safely store hazardous materials. ...

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Energy Storage Container Shipping: The Invisible Backbone of ...

Solution #2: The Paperwork Houdini Act
Navigating IATA's Dangerous Goods Regulations



requires more finesse than a diplomat. Pro tip: Use blockchain-based tracking systems. A ...

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Battery Shipping: Classification, Best Practices, and more , Maersk

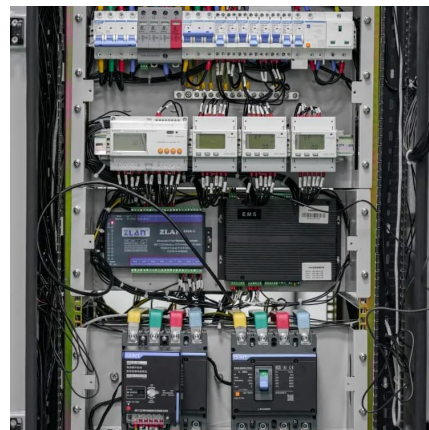
Because batteries are classified as dangerous goods due to fire and explosion risk. That means stricter packaging, labelling, documentation, and carrier approvals. This guide ...

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Research summary - Marine transport of energy storage systems ...

Summary 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 ...

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Department 3 Containment Systems for Dangerous Goods; Energy Storage

Department 3: Containment systems for dangerous goods cover packaging for dangerous goods such as chemical containers, cannisters, crates, barrels and pressurised gas cylinders, as well ...

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IMDG CODE 39-18: Update 2 - Lithium Batteries Installed in Container

Fire extinguishers and air conditioning system if installed in the container must be properly secured/installed and are not subject to the provisions of IMDG Code. No other goods ...

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[Shipping Commercial Battery Energy Storage ...](#)

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. ...

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[SCU Gets UN3536 Certification for Lithium Battery ...](#)

Obtaining this certification means that SCU's containerized lithium battery energy storage system meets strict international standards in all ...

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Battery energy storage system (BESS) container, BESS container ...

BESS (Battery Energy Storage System) is an advanced energy storage solution that utilizes rechargeable batteries to store and release electricity as needed. It plays a crucial role in ...

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[Gard: Safe carriage of Battery Energy Storage ...](#)

Potential fire and explosion hazards of Lithium-ion batteries have become a "hot topic" in the shipping industry, as detailed in this recent Gard ...

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Comprehensive Guide to Safe Shipping of Lithium Battery Energy Storage

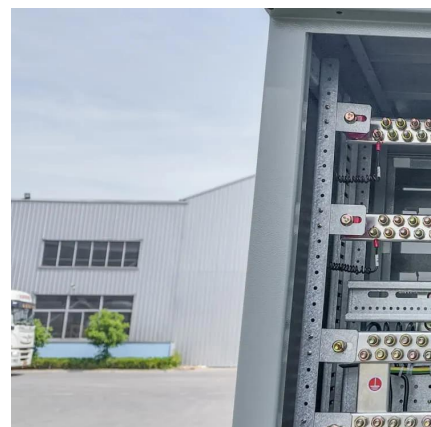
Maritime filing is mandatory for lithium battery energy storage containers (Class 9 UN3536) shipped from Shanghai Port, as oversized units preclude Dangerous Goods ...

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[Shipping battery energy storage systems](#)

In the past few months, Gard has received several queries on the safe carriage of battery energy storage systems (BESS) on ships. In this insight, we highlight some of the key risks, regulatory ...

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Dangerous yet uniquely challenging cargo: how does the logistics ...

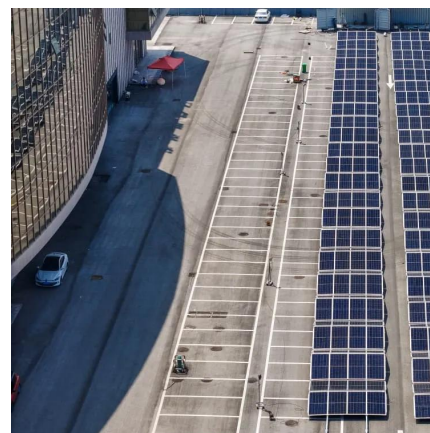
Furthermore, due to their physical and chemical properties, the batteries are classified as potentially dangerous goods. Ships have strict limitations and capacity thresholds ...

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SCU Gets UN3536 Certification for Lithium Battery Energy Storage Container

Obtaining this certification means that SCU's containerized lithium battery energy storage system meets strict international standards in all aspects such as design, ...

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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.

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

Because batteries are classified as dangerous goods due to fire and explosion risk. That means stricter packaging, labelling, documentation, and ...

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[UN 3480, UN3481, UN3090, UN3091, UN3171, UN3536: ...](#)

Lithium battery products are classified as Class 9 dangerous goods and divided into several categories such as lithium batteries, lithium battery equipment, battery-powered vehicles, and ...

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Stormwater Best Management Practice, Hazardous Materials ...

Hazardous materials storage containers, structures and buildings all have finite life spans. For example, tarpaulins and plastic sheets used for coverings on outdoor storage locations may ...

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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 ...

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Shipping Requirements for Containerized Lithium Battery Energy Storage

3. Container Body Requirements Energy storage containers are classified as Class 9 dangerous goods (UN Number 3536) under the International Maritime Dangerous Goods (IMDG) Code ...

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Department 3 Containment Systems for Dangerous Goods; Energy Storage

Dangerous goods containment systems range from dangerous goods packaging, canisters, boxes, barrels and compressed gas cylinders to tank trucks, tank containers and storage tanks ...

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[Shipping Lithium-Ion Batteries: UN3480 & UN3481 ...](#)

Learn the essential regulations for shipping lithium-ion batteries (UN3480 & UN3481) to ensure safety and compliance in your logistics operations.

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[Comprehensive Guide to Safe Shipping of Lithium ...](#)

Maritime filing is mandatory for lithium battery energy storage containers (Class 9 UN3536) shipped from Shanghai Port, as oversized units ...

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[Storage and handing of dangerous goods](#)

In 2003 a review of the regulation of dangerous goods led to major reform. The regulation of the storage and handling of most classes of dangerous goods will now come within the ...

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