
Over-limit and overweight energy storage container system transportation

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 associated with the maritime transportation of Bess?

The maritime transportation of BESS primarily involves the following risks: Lithium battery safety risks Lithium batteries, as the core component of energy storage systems, are characterized by high energy density and power output. However, their safety directly determines the overall safety of the energy storage system.

How much does an energy storage system weigh?

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?

Battery energy storage systems (BESS) are the most common type of ESS where batteries are pre-assembled into several modules. BESS come in various sizes depending on their application and their usage is expected to rise considerably in coming years.

Shipping battery energy storage systems - high energy, high risks? In the past few months, Gard has received several queries on the safe carriage of battery energy storage systems (BESS) ...

Overweight containers are a common problem, but if not handled properly, they can lead to serious consequences, including cargo delays, additional costs, and even legal ...

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In conclusion, transportation of container energy storage is a complex process that requires careful consideration of multiple factors. As a container energy storage supplier, we ...

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