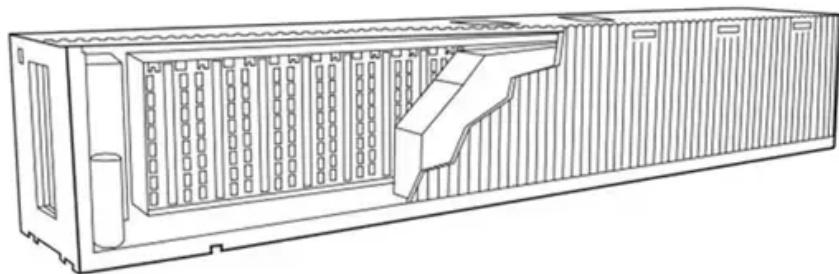




A-Core Container

New Energy Battery Cabinet Abnormal Noise Communication Power Supply



Overview

Are battery energy storage systems causing noise?

Battery Energy Storage Systems (BESS) are relatively new to the US, and communities are only just starting to become aware of the noise issues they can create. BESS's are generally large power storage facilities, often comprised of hundreds of battery units the size of shipping containers spread over many acres of land.

Did NMS conduct a noise study for a new battery energy storage facility?

In July, 2022, NMS was retained to conduct a detailed noise study for a new Battery Energy Storage Facility near Los Angeles (for confidentiality purposes, no identifying client or site information is included in this article). The facility consisted of over 300 batteries, over 60 PCS units and two transformers covering about 6 acres of land.

What sounds are emitted from a battery enclosure?

Sound from inlet and outlet airflow vents, as well as fans and pumps are emitted from each battery enclosure. The sounds from these systems are similar to rooftop heating ventilation and cooling units in residential and commercial buildings.

What is battery management system maintenance & troubleshooting?

Maintenance and troubleshooting for Battery Management Systems (BMS) require a holistic approach to ensure the reliability and longevity of energy storage systems. Regular inspections and testing are foundational elements, allowing for the identification of potential issues before they escalate.

Can a Bess battery system be placed in a grid?

However, BESS facilities often place multiple large battery systems in a grid in order to fit as many of them in an area as possible. Sound enclosures may be considered for some equipment, but the most common form of noise control is

a noise barrier of appropriate height.

What makes a Bess a noisy facility?

This noise is often tonal, which can mean the facility noise levels are held to a more restrictive noise limit. Power Conversion System (PCS): The PCS is an essential component of the BESS as it converts electricity between direct and alternating currents.

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