

## Kongres Container

# Abnormal noise inside the battery cabinet liquid cooling system



## Overview

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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.

How loud is a Bess cooling system?

Our field measurements show a wide range of noise levels generated by the cooling systems of BESS equipment. Noise levels tend to range from 70 to 92 decibels when measured 1 meter from the component. Key components and noise sources of a BESS facility include: Batteries: Rechargeable battery units are the core of the Battery Energy Storage System.

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.

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 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.

Why does my air conditioner alarm occur when the SOC is low?

- Does the alarm occur when the discharge SOC is low and disappears automatically when the SOC recovers, it is recommended to reduce the discharge depth.
- Check the system power connection row for proper operation, the battery system for large temperature differences and abnormal air conditioning cooling.

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