

# **CFD design of solar container energy storage system**





## Overview

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Can CFD simulation be used in containerized energy storage battery system?

Therefore, we analyzed the airflow organization and battery surface temperature distribution of a 1540 kWh containerized energy storage battery system using CFD simulation technology. Initially, we validated the feasibility of the simulation method by comparing experimental results with numerical ones.

What is a containerized energy storage battery system?

The containerized energy storage battery system comprises a container and air conditioning units. Within the container, there are two battery compartments and one control cabinet. Each battery compartment contains 2 clusters of battery racks, with each cluster consisting of 3 rows of battery racks.

What is a containerized storage battery compartment?

The containerized storage battery compartment is separated by a bulkhead to form two small battery compartments with a completely symmetrical arrangement. The air-cooling principle inside the two battery compartments is exactly the same.



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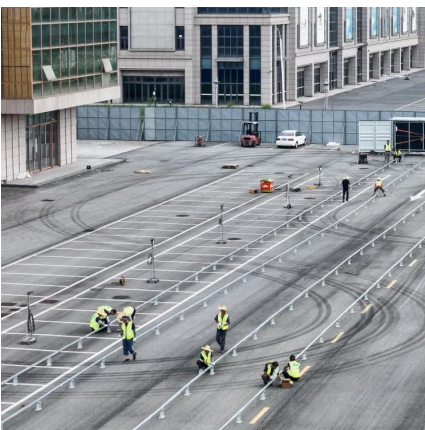
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