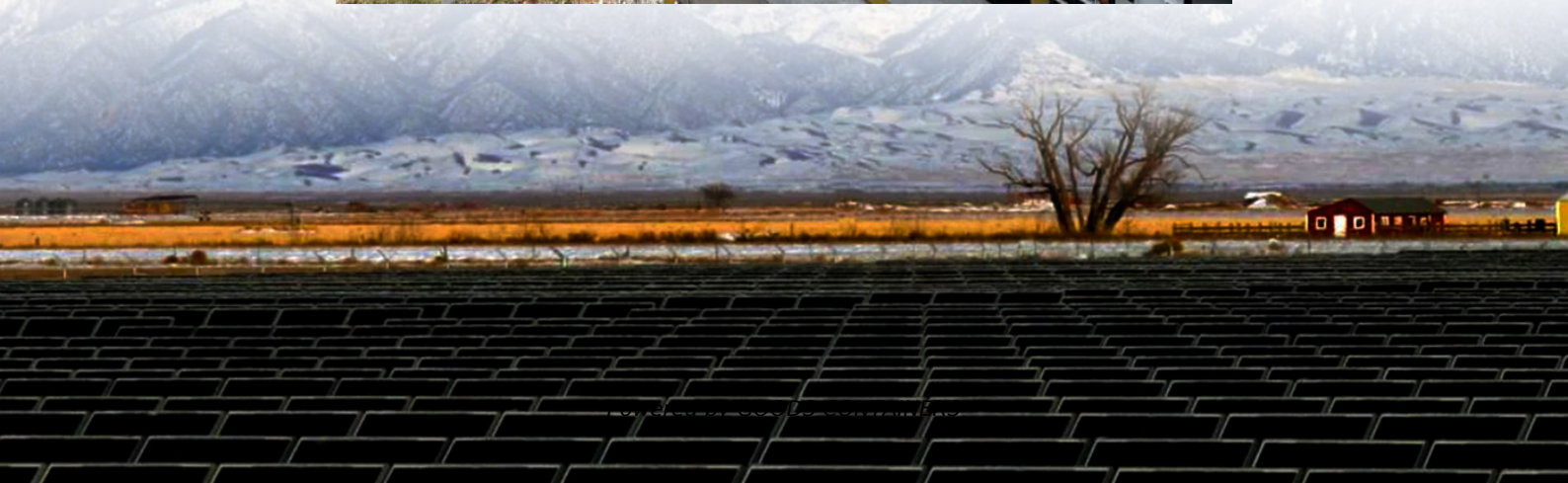


# Differences between battery modules and energy storage batteries





## Overview

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While a battery offers individual energy storage capabilities, a module provides a more integrated approach, combining multiple batteries to meet specific requirements. What is the difference between a battery and a module?

Each component serves a unique role: battery cells are the individual units that store energy, modules are groups of cells connected together, and packs are assemblies of modules that deliver power to the device. Here's a brief overview of these key differences. Let's break it down.

What is the difference between battery module and battery pack?

**Battery Module:** A group of interconnected battery cells that increases voltage and capacity compared to individual cells. It includes wiring and connectors and may feature a basic battery management system (BMS) for monitoring.  
**Battery Pack:** A complete energy storage system containing one or more modules.

What is the difference between a battery and energy storage system?

**System Composition** Batteries typically consist of modules, battery management systems (BMSs), thermal management devices, and structural support structures. In contrast, energy storage systems typically consist of arrays with their own BMS, energy management systems (EMSs), power conversion systems (PCSs), and various electrical components.

What is the difference between battery cell and battery pack?

**Summary:** Battery Cell: The smallest unit. Battery Module: A group of connected cells. Battery Pack: A complete system with modules and a BMS.  
**Analogy:** Battery Cell: A single brick. Battery Module: A wall made of several bricks. Battery Pack: A building made of multiple walls.



## Differences between battery modules and energy storage batteries

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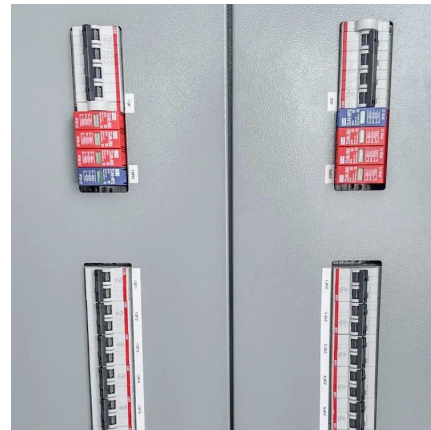


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