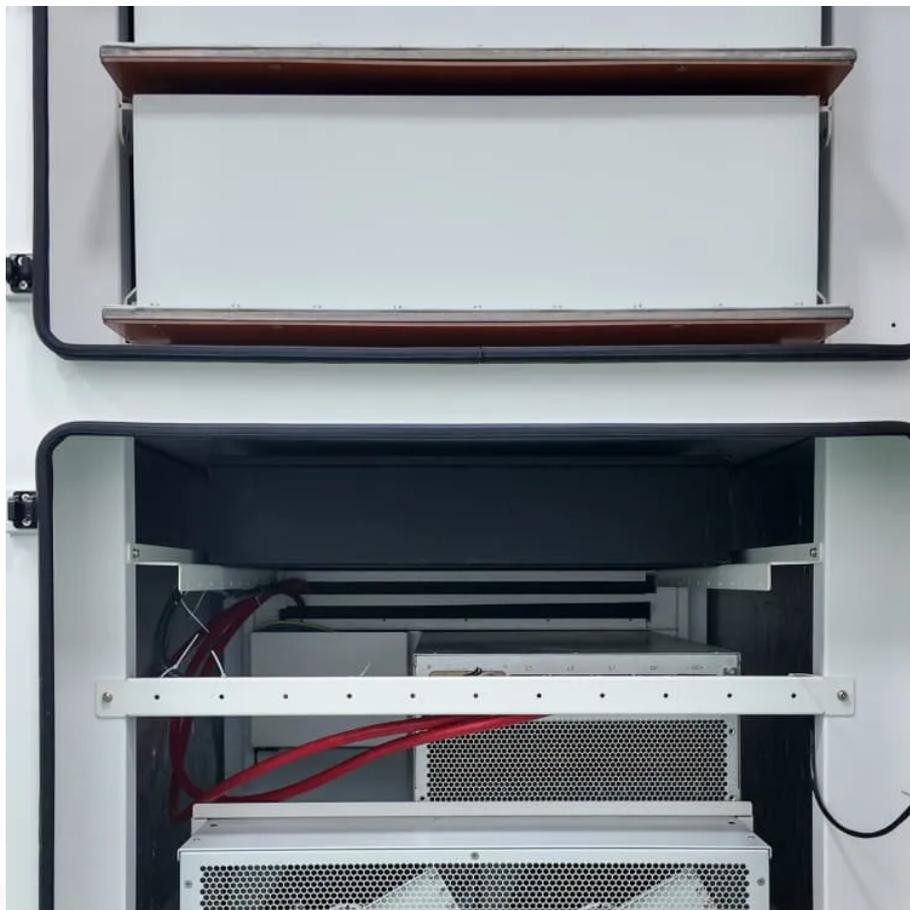


Check how the battery cabinet generates electricity





Overview

How do batteries produce energy?

Batteries are devices that use chemical reactions to produce electrical energy. These reactions occur because the products contain less potential energy in their bonds than the reactants. The energy produced from excess potential energy not only allows the reaction to occur, but also often gives off energy to the surroundings.

How does a battery work?

Inside a battery, this energy is stored in the chemical bonds of the materials in its electrodes. The trick is to design a system where these materials can undergo reactions that release this energy in a controlled way—specifically, through the movement of electrons from one place to another. And therein lies the genius of the battery.

What makes a battery unique?

Batteries are unique because they store energy chemically, not mechanically or thermally. This stored chemical energy is potential energy—energy waiting to be unleashed. Inside a battery, this energy is stored in the chemical bonds of the materials in its electrodes.

How a battery is charged?

During charging, an external power source applies voltage to the battery. Electrons are forced from the cathode to the anode through an external circuit, while ions migrate through the electrolyte to maintain charge balance. This process stores chemical energy in the battery. 2. Discharge Phase:



Check how the battery cabinet generates electricity



5.6.3.2: Batteries

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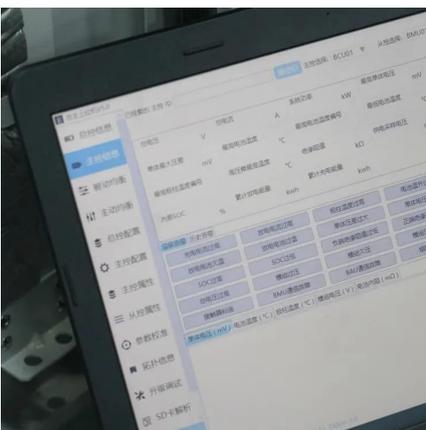
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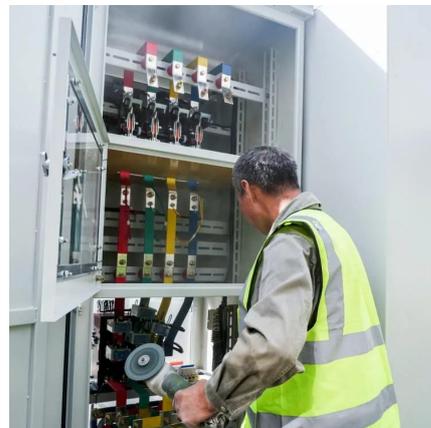


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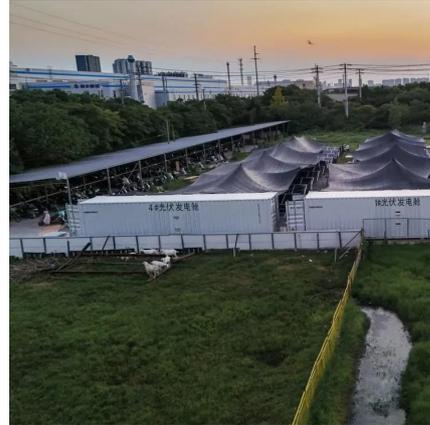
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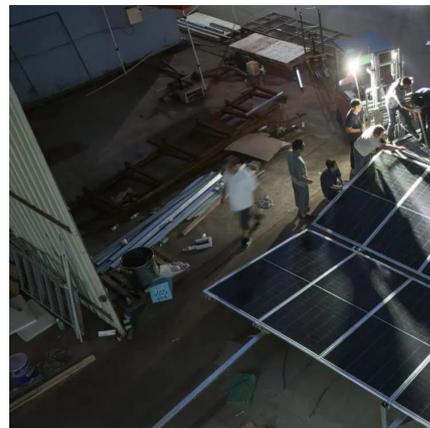


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