

# How does a battery cabinet store electricity





## Overview

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How does a battery store energy?

A battery stores electrical energy in the form of chemical energy through a process called electrochemical reaction. Inside a battery, there are two electrodes (positive and negative) and an electrolyte. When the battery is charged, energy is stored by rearranging the chemical structure of materials in the battery.

What is a battery & how does it work?

A battery is a device that converts and stores electrical energy into chemical energy during charging, and then releases it as electrical energy during discharging.

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.

What happens when a battery is charged?

When the battery is charged, energy is stored by rearranging the chemical structure of materials in the battery. When the battery is used (discharging), a chemical reaction takes place that releases the stored energy as electric current, which flows through an external circuit to power devices.



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