



MODERNIZATION SOLAR

# Three major categories of energy storage devices





## Overview

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What are the different types of energy storage systems?

The different types of energy storage systems include battery storage, relying on electrochemical processes. Within battery storage, there are various chemistries such as lithium-ion, lead-acid, nickel-cadmium, and sodium-sulfur.

How many types of thermal energy storage systems are there?

It was classified into three types, such as sensible heat, latent heat and thermochemical heat storage system (absorption and adsorption system) (65). (Figure 14) shows the schematic representation of each thermal energy storage systems (66). Figure 14. Schematic representation of types of thermal energy storage system. Adapted from reference (66).

What are the different types of mechanical energy storage?

Among the prominent types of mechanical energy storage are Pumped Hydroelectric Energy Storage (PHES), Compressed Air Energy Storage (CAES), Flywheel Energy Storage (FES), and Gravity Energy Storage (GES).

What are the different types of energy storage methods?

It captures energy in a physical form—typically as potential or kinetic energy—and releases it when needed. Pumped hydro storage, flywheels, and compressed air energy storage are the primary methods within this category, each suited to different applications and scales.



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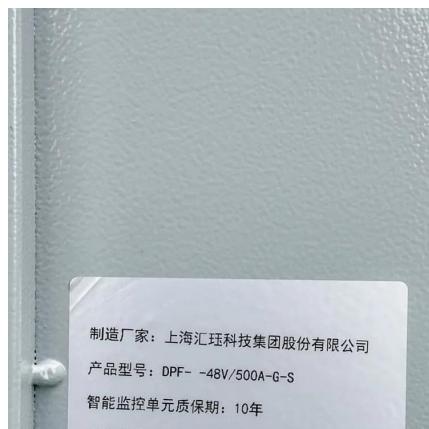
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