

## PDEOZE PowerContainer

**New energy storage methods are mainly divided into three categories**



## Overview

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Depending on how energy is stored, storage technologies can be broadly divided into the following three categories: thermal, electrical and hydrogen (ammonia). What are the different types of energy storage technologies?

Depending on how energy is stored, storage technologies can be broadly divided into the following three categories: thermal, electrical and hydrogen (ammonia). The electrical category is further divided into electrochemical, mechanical and electromagnetic (Figure 2).

What are the different types of mechanical energy storage systems?

There are three main types of MES systems for mechanical energy storage: pumped hydro energy storage (PHES), compressed air energy storage (CAES), and flywheel energy storage (FES).

How are chemical energy storage systems classified?

Chemical energy storage systems are sometimes classified according to the energy they consume, e.g., as electrochemical energy storage when they consume electrical energy, and as thermochemical energy storage when they consume thermal energy.

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 electrostatic energy storage systems?

Electrostatic energy storage (EES) systems can be divided into two main types: electrostatic energy storage systems and magnetic energy storage systems.

What is electrochemical energy storage system?

Electrochemical energy storage system undergoes chemical process to store and produce electricity. Batteries are the most widely used electrochemical energy storage systems in industrial and household applications (28). They are classified into two types namely primary and secondary batteries.

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