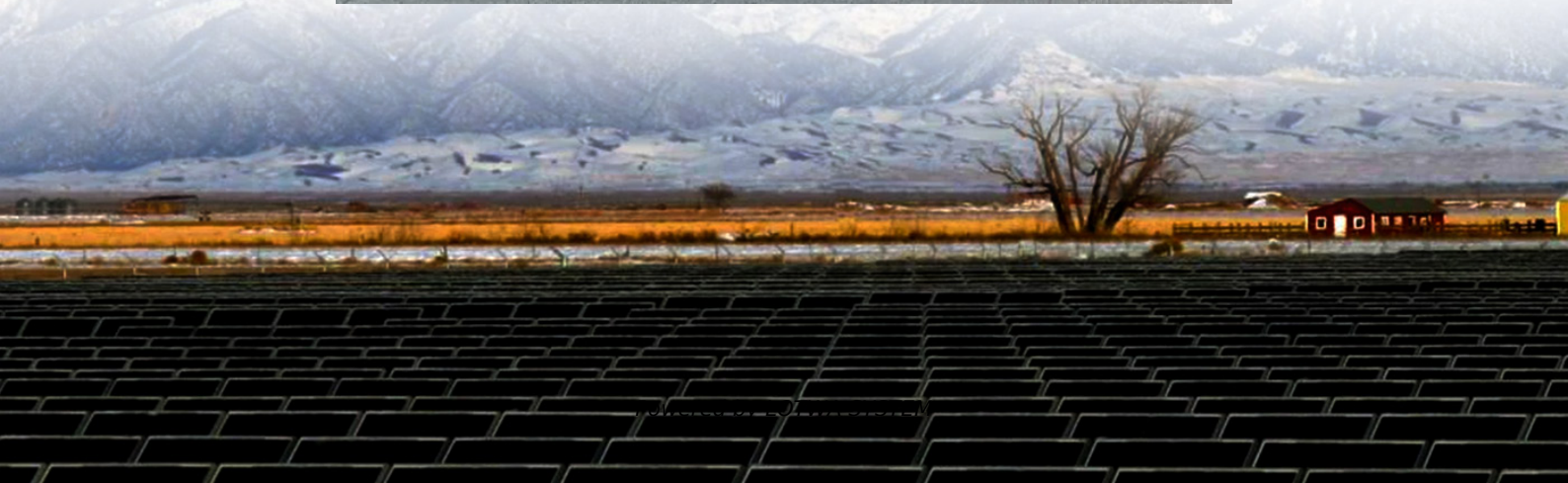


# **What are the ways to store energy on the power generation side**





## Overview

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What are energy storage solutions for electricity generation?

Energy storage solutions for electricity generation include pumped-hydro storage, batteries, flywheels, compressed-air energy storage, hydrogen storage and thermal energy storage components. The ability to store energy can facilitate the integration of clean energy and renewable energy into power grids and real-world, everyday use.

What is energy storage?

Energy storage is the capturing and holding of energy in reserve for later use. Energy storage solutions for electricity generation include pumped-hydro storage, batteries, flywheels, compressed-air energy storage, hydrogen storage and thermal energy storage components.

What energy storage technologies are used to support the grid?

The main energy storage technologies used to support the grid are pumped storage hydropower and batteries. Pumped storage hydropower accounts for about two-thirds of global storage capacity but is only growing modestly, while battery storage, mainly lithium-ion batteries, is rapidly expanding for many reasons:.

What are some examples of energy storage?

Pumped-storage hydroelectric dams, rechargeable batteries, thermal storage, such as molten salts, which can store and release large amounts of heat energy efficiently, compressed air energy storage, flywheels, cryogenic systems, and superconducting magnetic coils are all examples of storage that produce electricity.



## What are the ways to store energy on the power generation side

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