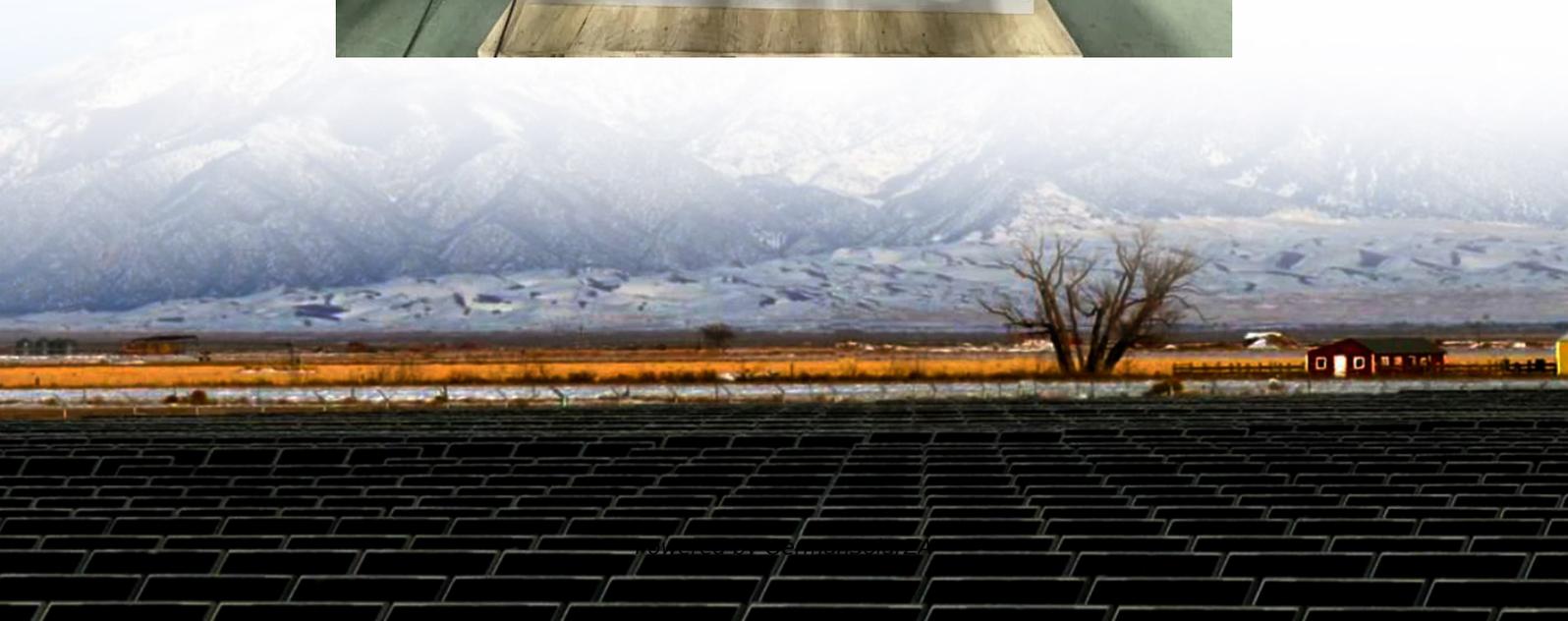


# Some ways to store energy on a large scale





## Overview

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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.

How can energy be stored on a large scale?

Briefly, two other potential ways to store energy on a large scale are flywheels and a smart grid. The concept behind flywheels is fairly simple in that it is just the conversion of electrical energy to rotational kinetic energy for storage and then conversion back to electrical energy using a generator for extraction.

What are the different types of energy storage methods?

Diverse energy storage techniques include batteries, pumped hydro, thermal storage, and supercapacitors. Efficiency, scalability, and cost-effectiveness vary significantly among different storage methods. Energy storage is vital for balancing supply and demand, particularly with the rise of renewable energy sources.

Why is large scale energy storage important?

When these sources inevitably become more prevalent in the future, the combination of production unpredictability and lack of mass storage will result in energy waste, offsetting any potential benefits gained. Therefore it is of the utmost importance to research and develop effective means for large scale energy storage.



## Some ways to store energy on a large scale

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