

## Kongres Container

# Can energy storage batteries be buried underground



## Overview

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What is the difference between battery storage and geologic energy storage?

Battery storage is one method to store power. However, geologic (underground) energy storage may be able to retain vastly greater quantities of energy over much longer durations compared to typical battery storage.

Can you store energy underground?

More storage also means more backup power for ever-hotter heat waves, when whole regions flick on their AC units. Companies are figuring out how to store energy underground, too. A company called Hydrostor, based in Toronto, Canada, uses excess renewable energy on the grid to pump compressed air into subterranean caverns filled with water.

How do batteries store electricity?

Batteries can take that excess electricity and store it until such time as it can be put to work. But there are other ways of storing electricity that rely on potential energy. An example of potential energy is a freight train parked at the top of a mountain.

Why is battery storage important?

As the United States transitions away from fossil fuels, its economy will rely on more renewable energy. Because current renewable energy sources sometimes produce variable power supplies, it is important to store energy for use when power supply drops below power demand. Battery storage is one method to store power.

What is deep underground energy storage?

Deep underground energy storage is the use of deep underground spaces for large-scale energy storage, which is an important way to provide a stable supply of clean energy, enable a strategic petroleum reserve, and promote the peak shaving of natural gas.

What is the difference between battery energy storage and sand energy storage?

Unlike battery energy storage, the energy storage medium of UGES is sand, which means the self-discharge rate of the system is zero, enabling ultra-long energy storage times. Furthermore, the use of sand as storage media alleviates any risk for contaminating underground water resources as opposed to an underground pumped hydro storage alternative.

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