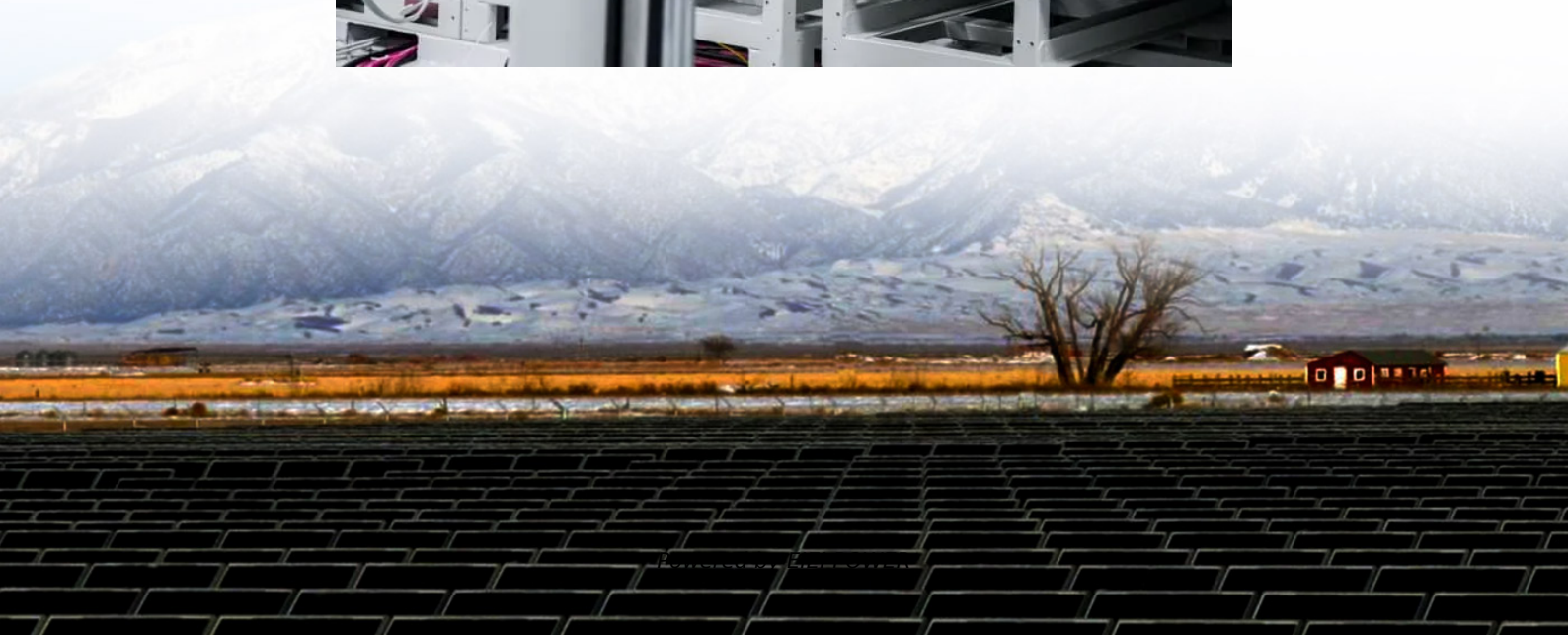


# What is the hydropower energy storage project





## Overview

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What is pumped storage hydropower (PSHP)?

Pumped storage hydropower (PSHP) is defined as a hydroelectric system that stores hydraulic energy by pumping water from a lower reservoir to an upper reservoir, allowing for energy generation during periods of higher demand. It is recognized for its efficiency, cost-effectiveness, and flexibility in energy storage and supply.

Why is pumped storage hydropower important?

As the global community accelerates its transition toward renewable energy, the importance of reliable energy storage becomes increasingly evident. Among the various technologies available, pumped storage hydropower (PSH) stands out as a cornerstone solution, ensuring grid stability and sustainability.

How does a pumped storage hydropower plant work?

Image from IKM 3D. Pumped storage hydropower facilities rely on two reservoirs at different elevations to store and generate energy. When other power plants generate more electricity than the grid needs, a PSH plant can use that power to pump water into the upper reservoir.

What is a storage hydropower plant?

Storage hydropower plants include a dam and a reservoir to impound water, which is stored and released later when needed. Water stored in reservoirs provides flexibility to generate electricity on demand and reduces dependence on the variability of inflow.



## What is the hydropower energy storage project

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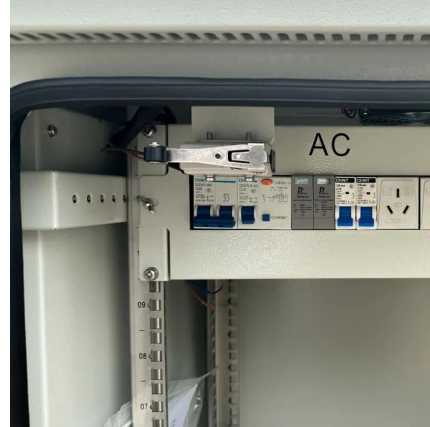
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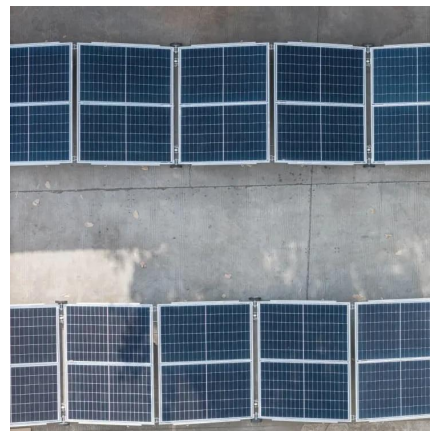
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