

# Central Asia Hydropower Energy Storage Project





## Overview

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Why is hydropower important in South and Central Asia?

In South and Central Asia, hydropower presents significant opportunities for the region's development. With several countries experiencing rapid population growth and increasing energy demands, harnessing untapped hydropower resources can contribute to energy security and economic growth.

How can hydropower improve energy security in Central Asia?

This integrated approach ensures equitable access to water while empowering local communities to build resilience against environmental changes. Energy security is a pressing issue in Central Asia, where hydropower is the primary renewable energy source. However, only a small fraction of the region's hydropower capacity is utilized.

Why is energy security a pressing issue in Central Asia?

Energy security is a pressing issue in Central Asia, where hydropower is the primary renewable energy source. However, only a small fraction of the region's hydropower capacity is utilized. Upstream countries have abundant water resources, while downstream nations face water scarcity, leading to tensions over shared resources.

What is the hydro4u project?

The Hydro4U Project, funded by the EU's Horizon 2020 programme, enhances water resilience in Central Asia by promoting small-scale hydropower (SHP) solutions that address the region's water scarcity and energy security challenges.



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### Central Asia

Central Asia is known for its abundant hydropower potential driven by its extensive river systems and mountainous terrain. Central Asian nations, particularly Tajikistan and Kyrgyzstan, are ...

### GitHub

This project analyzes the role of long duration storage in resolving transboundary water and energy conflicts in Central Asia. The analysis combines a bottom-up GIS-based data of ...



### [Central Asia: Hydroelectric Boom and ...](#)

Nov 27, 2025 · Central Asia is gearing up for a major energy transformation thanks to hydropower, in the face of looming environmental and economic ...

### [Hydropower in South and Central Asia](#)

Jun 13, 2024 · South and Central Asia advance hydropower through regional cooperation, cross-border energy trade, and major project milestones ...



### [Small Streams, Big Possibilities for Central Asia](#)

Jan 3, 2025 · Hydro4U focuses on small-scale hydropower in Central Asia to address water scarcity, energy security, and to foster regional cooperation.



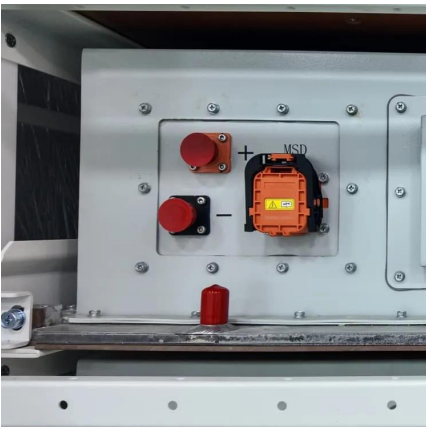
### [Uzbekistan to build first storage power plants in Central Asia ...](#)

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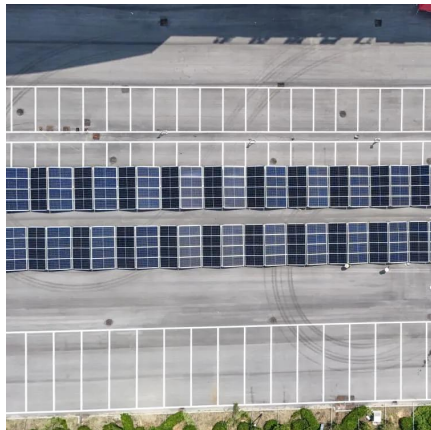
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### **Sungrow and CEEC complete Central Asia's largest energy storage project**

Feb 6, 2025 · Installed with Sungrow's cutting-edge liquid-cooled ESS PowerTitan 2.0, this facility marks Uzbekistan's first energy storage project and stands as the largest of its kind in Central ...



### [A review of hydropower in Central Asia: Past, present, and ...](#)

Hydropower is the primary renewable energy source globally and in Central Asia. This study provides a comprehensive overview of Central Asia's past, present, and future hydropower ...



### [EU expands investments in Central Asia's hydropower sector](#)

Oct 15, 2025 · The EU, together with partners, has announced new investments in hydropower infrastructure in Central Asia. Particularly, the Kamarata-1 hydropower plant mega-project in ...

### [Hydropower in South and Central Asia](#)

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