

# Uzbekistan energy storage research and development



## Overview

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The ministry reports that the nation is proactively enhancing its energy storage framework to bolster the reliability of the national power grid. In 2024, two energy storage systems with a capacity of 150 MW each were commissioned in the Fergana and Andijan regions, bringing the . Uzbekistan plans to launch six additional energy storage systems with a total capacity of 884 MW in 2026, Trend reports via the Ministry of Energy of Uzbekistan.

Keywords: stations, power plants, natural gas. Since 2021, the country has added 10 new renewable plants, including nine solar and one wind facility, with a total capacity exceeding 2,500 MW, alongside over 2,200 MW from . Uzbekistan is scaling solar and other renewables, using innovative financing and partnerships to modernize its power sector and cut emissions.

Transitioning from fossil fuels to renewable energy is a complex challenge, especially for developing countries. Uzbekistan has acknowledged its heavy . Tashkent, Uzbekistan, May 21, 2024 - The World Bank Group, Abu Dhabi Future Energy Company PJSC (Masdar), and the Government of Uzbekistan have signed a financial package to fund a 250-megawatt (MW) solar photovoltaic plant with a 63-MW battery energy storage system (BESS).

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### INDICATORS OF DEVELOPMENT OF THE ENERGY SYSTEM

Uzbekistan is one of the countries with wide access to RES. According to studies conducted by international financial and research institutions, the country's wind energy potential is estimated

### [Driving Uzbekistan's Renewable Energy Growth Through PPPs and](#)

Uzbekistan's rich domestic reserves of coal, oil, and gas have long fueled its economic development. However, this abundance has been a double-edged sword. It has discouraged



### [Uzbekistan to Build New Solar Plant and First Battery Energy Storage](#)

"The new solar plant with a battery energy storage system will not just boost the uptake of renewable energy in the country, but also help stabilize and strengthen existing electricity grids

### Uzbekistan plans new energy storage systems in 2026

In 2025, Uzbekistan put into operation 10 energy storage systems with a combined capacity of 1,245 MW. According to the ministry, the total capacity of energy storage systems in the



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### Experience in implementing modern energy storage systems in

This article studies the features of the project and operation of a modern energy storage system (ESS) in the climatic conditions of the Republic of Uzbekistan. The technical features of the



### Final Report on Uzbekistan

The Uzbekistan power energy system is located in the center of the United Energy System of Central Asia. It has direct connections with the Power energy systems of Kazakhstan, Kyrgyzstan, Tajikistan,

### Uzbekistan Opens First Utility-Scale Solar & Battery Project

Uzbekistan's President inaugurates country's first utility-scale solar and battery storage project with Masdar, plus new BESS and wind deals.



### [Energy storage as an important part of Uzbekistan's renewable energy](#)

By integrating ESS into their energy mix, countries like Uzbekistan can secure energy independence while aligning with global sustainability goals. However, ESS face challenges globally,

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