



# Uzbekistan air energy storage project planning





## Overview

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- Uzbekistan's Masdar project combines 250MW solar and 63MW/126MWh BESS, funded by \$169M from ADB, and JICA, to modernize its aging grid and cut CO<sub>2</sub> by 367,000 tonnes annually. - The initiative addresses 13% technical losses in Uzbekistan's 30+-year-old grid, offering a replicable model for.

Uzbekistan's first energy storage facility, with a 150 MW capacity, will launch in the Fergana region in January 2025, according to the National News Agency (UzA). Construction began in the summer of 2024, featuring a storage system with a distribution unit and 90 battery modules. Local suppliers.

Project Development Objective is to increase private sector led renewable energy supply in Uzbekistan. 316.00 The Government of Uzbekistan (GoU) has recently announced the "Uzbekistan – 2030" Strategy, which aims to reduce the poverty rate by half by 2026 and enable the country to reach upper.

hensive framework to guide this transformation. It has been jointly developed by



the United Nations Development Programme (UNDP), the United Nations Economic Commission for Europe (UNECE), and the International Labour Organization (ILO), with support from the UN Joint SDG Fund. The Roadmap reflects. What is the Uzbekistan energy project?

7. The Project builds on the World Bank energy program in Uzbekistan by scaling up the private investment and commercial financing, diversification of power mix from domestic resources (solar), clean energy transition and decarbonization.

Does Uzbekistan need energy storage?

By 2030, Uzbekistan aims to source over 40% of its electricity from renewables, demonstrating its commitment to sustainability. The plan also includes advancing energy storage, with a 300 MW lithium-ion system debuting in 2024 and a goal of 4.2 GW storage capacity by 2030. The Role of Energy Storage in Renewable Energy.

Why is Uzbekistan so energy-intensive?

Uzbekistan remains one of the most energy-intensive economies in the world. Energy use is largely based on fossil fuels, although the country has significant RE potential in solar and wind. Natural gas makes up to 83 percent of total primary energy consumption and more than 80 percent of the electricity mix.

Why are ESS solutions important for Uzbekistan?

Internationally certified advanced ESS solutions also enhance grid reliability, making them indispensable for modernizing energy infrastructure. By integrating ESS into their energy mix, countries like Uzbekistan can secure energy independence while aligning with global sustainability goals.



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### [Uzbekistan, ACWA Power agree on \\$1.1bn energy ...](#)

The Ministry of Energy of Uzbekistan and Saudi Arabia's ACWA Power inked a \$1.1bn deal at the COP-29 conference in Baku, ...

### [Uzbekistan: Nukus II 200MW Wind and BESS Project](#)

This plan includes a detailed mapping of relevant primary and secondary stakeholders, such as individuals, groups, and institutions impacted by or interested in the ...



### **Uzbekistan, ACWA Power agree on \$1.1bn energy storage project ...**

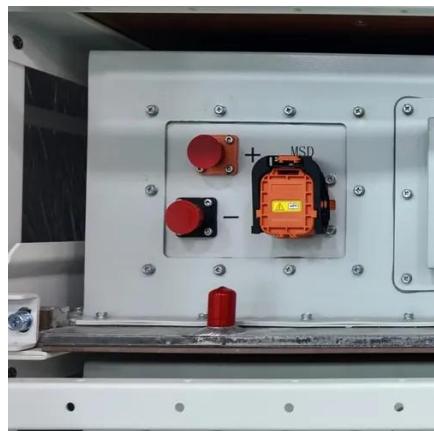
The Ministry of Energy of Uzbekistan and Saudi Arabia's ACWA Power inked a \$1.1bn deal at the COP-29 conference in Baku, Azerbaijan, to construct electricity storage ...

### [A Just Energy Transition Roadmap for Uzbekistan](#)

The central pillars of Uzbekistan's energy policy framework can be summarised as: (1) market liberalisation and reduced fossil fuel dependency;



(2) comprehensive infrastructure ...

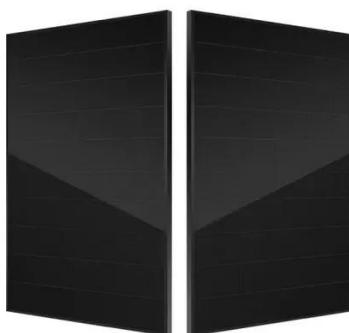


## World Bank Document

The Project builds on the World Bank energy program in Uzbekistan by scaling up the private investment and commercial financing, diversification of power mix from domestic ...

### Energy storage as an important part of ...

Energy storage systems (ESS) are essential in addressing the intermittency of renewable energy sources and ensuring grid stability.



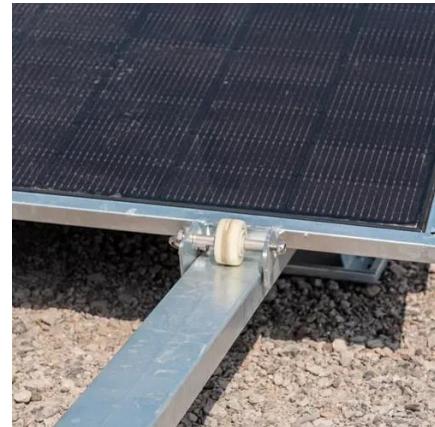
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## Energy storage as an important part of Uzbekistan's renewable energy

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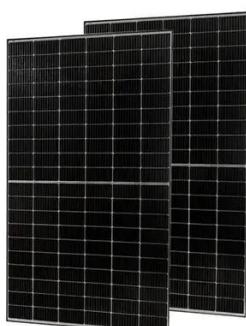


## Uzbekistan: Nukus II 200MW Wind and BESS Project

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## Uzbekistan builds its first energy storage facility

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## Uzbekistan's Energy Storage Leap: Strategic Investment ...

While this focus is on resource extraction, it indirectly supports renewable infrastructure by securing raw materials for storage systems. Investors could capitalize on this ...



## **Uzbekistan Unveils First Utility-Scale Solar and Battery Storage**

The Nur Bukhara solar and battery storage project will generate electricity for over 55,000 homes. It will also help avoid approximately 367,000 tons of CO2 emissions annually.



### [Start of construction for the Artemisya hybrid cluster in Uzbekistan](#)

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## Contact Us

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For inquiries, pricing, or partnerships:

<https://sccd-sk.eu>

Phone: +32 2 808 71 94

Email: [info@sccd-sk.eu](mailto:info@sccd-sk.eu)

Scan QR code for WhatsApp.

