

# TASHKENT ENERGY STORAGE POLICY

---



Will Uzbekistan have a battery energy storage system? ADB said it will be one of the first utility-scale renewable energy projects with a battery energy storage system (BESS) component in Uzbekistan. It follows the announcement of the country's first BESS in May 2024 and the connection of the first phase of a 511 MW solar project in March of this year.



How many solar PV projects are in Tashkent & Samarkand? The agreements include the development of three solar photovoltaic (PV) projects in Tashkent and Samarkand and three Battery Energy Storage Systems (BESS) in Tashkent, Bukhara and Samarkand, with a total capacity of 1.4 GW of additional renewable energy and 1.5 GWh of additional battery storage capacity.



What are the Tashkent projects? The Tashkent projects will include a 400 MW PV plant and 500 MWh BESS, while two 500 MW PV projects each and a 500 MWh BESS will be developed in Samarkand. Another 500 MWh BESS will be located in Bukhara, and the project will include overhead transmission lines to help dispatch power to the grid.



Will Uzbekistan fund a 250-megawatt solar photovoltaic plant? TASHKENT, 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).



What's happening in Tashkent in 2024? It follows the announcement of the country's first BESS in May 2024 and the connection of the first phase of a 511 MW solar project in March of this year. Separately, ACWA Power recently announced financial close on a 200 MW solar plant and 500 MWh BESS near the national capital, Tashkent.

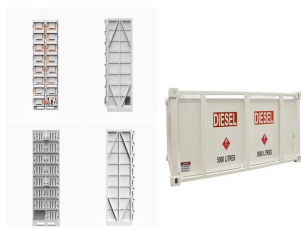
# TASHKENT ENERGY STORAGE POLICY



Does Uzbekistan need a solar energy roadmap? The government of Uzbekistan needs to periodically monitor its progress toward a solar energy future and to review policies and actions where appropriate. This roadmap provides a timeline through 2030 with key actions.



Energy Storage System (BESS) in Tashkent Region. The agreement will be executed over a period of 25 years and 20 years from the Commercial Operation Dates (COD) for the PV plant and BESS components respectively. Upon the completion of the agreement term, the project facilities will be handed over to the off-taker (NEGU) for subsequent operation and



The law stipulates that the Ministry of Energy is authorised to implement a unified state policy on rational energy use, applicable to all economic sectors and social facilities. and regional and Tashkent-district city and economic courts. In accordance with the constitution (Article 108) and the Law on the Constitutional Court, the



ACWA Power has completed the dry financial close for the Tashkent Riverside project for a value of \$533 million in Uzbekistan. This project includes a 200 MW solar photovoltaic facility and a 500 MWh battery energy storage system (BESS) to enhance the stability of Uzbekistan's power grid.



The Saudi Arabian developer has reached financial close for the Tashkent Riverside project in Uzbekistan, which includes a 200 MW solar plant and a 500 MWh battery energy storage system (BESS).

# TASHKENT ENERGY STORAGE POLICY



A Voltalia solar PV project in Albania. Image: Voltalia.

France-headquartered independent power producer (IPP) Voltalia has started building a 126MW solar PV project in Uzbekistan, to which it will add a 50MW/100MWh battery energy storage system (BESS) with plans to build another project ten times as big.



ACWA Power has signed agreements to develop 1.4GW of solar PV and 1.2GW of energy storage projects in Uzbekistan. a 1GW facility in the Samarkand region and a 400MW plant in the Tashkent region ??? and three 400MW storage projects. policy-making and and all interested downstream channels and third-party entities. The goal is simple: to



Acwa Power has achieved financial closure for the \$533m Tashkent Riverside project in Uzbekistan. The project encompasses a 200MW solar photovoltaic (PV) plant and a 500 megawatt hours (MWh) battery energy storage system (BESS), the largest in Central Asia, aimed at bolstering the Uzbek grid.



Saudi energy provider ACWA Power has signed agreements to develop 1.4GW of solar PV and 1.2GW of energy storage projects in Uzbekistan to be financed by the country's Ministry of Investment



This section outlines a timeline for key actions through 2030 to help Uzbekistan create the conditions necessary to achieve the solar energy vision laid out in this roadmap. The government of Uzbekistan needs to periodically monitor its ???



In a statement, ACWA Power said the agreements entailed the building of 1.4 gigawatts (GW) of solar capacity across three projects in Tashkent and Samarkand, and 1.5GW-hours of battery storage in three projects in Bukhara and Samarkand. The projects in Tashkent include a

# TASHKENT ENERGY STORAGE POLICY

---

400-megawatt (MW) solar plant and 500 MW-hour of battery storage.

# TASHKENT ENERGY STORAGE POLICY



extreme winter temperatures, culminating in a series of power blackouts across Tashkent Region. The emerging power crisis in Uzbekistan has prompted an urgent agenda for the development ???



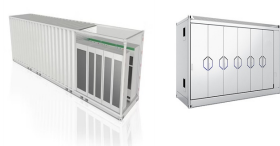
Tashkent ??? 6 December 2023. Renpower Uzbekistan ??? Accelerating investment and deployment of renewables in Uzbekistan Uzbekistan's economy is one of the fastest growing in emerging Central Asia. With that, the country's energy consumption is expected to double in the next decade, requiring USD26 billion in investment to meet the electricity demand.



ACWA Power signs financing agreements for USD533 million Tashkent Riverside project in Uzbekistan Summary ? The project includes a 500MWh battery energy storage system - the largest in Central Asia - and a 200MW solar plant ? Financing documents were signed with six lenders including the European Bank for Reconstruction and Development (EBRD), Islamic ???



The European Bank for Reconstruction and Development (EBRD) is contributing to Uzbekistan's objective of developing up to 25 GW of solar and wind capacity by 2030, by organising a facility of up to US\$ 229.4 million for the development, design, construction and operation of a 500 MWh battery energy storage system (BESS) and a 200 MW solar



This movement falls in line with the country's policy shift towards decarbonization and a greener economy. On 19 March 2023, the Joint-Stock Company (JSC) National Electric Grid of Uzbekistan PV plant and a 500-megawatt hour (MWh) Battery Energy Storage System (BESS) in Tashkent Region. The agreement will be executed over a period of 25

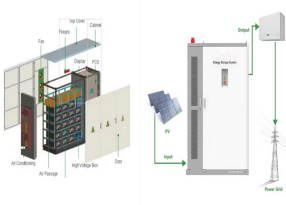
# TASHKENT ENERGY STORAGE POLICY



ACWA Power, a leading global player in renewable energy and desalination solutions, has finalized financing arrangements totaling \$533mn for the Tashkent Riverside project in Uzbekistan.. Photo: 200MW solar PV plant and 500MWh BESS to boost Uzbekistan's energy infrastructure Source: ACWA Power. This initiative includes the development of a 200MW ???



Nandita Parshad, Managing Director, Sustainable Infrastructure Group at EBRD, said, "We are proud to partner with ACWA Power and co-financiers on the pioneering Tashkent Solar PV and energy storage project in Uzbekistan, the largest of its kind in Central Asia. The project is core to Uzbekistan's ambition to install 25GW of renewables by 2030.



The techno-economic analysis is carried out under the conditions with and without the subsidy policy of a compressed air energy storage system with thermal energy storage for the scenario of being applied to an industrial plant. The results without subsidy policy indicate that the internal rate of return of this system is 16.3%, and the

## Commercial and Industrial ESS

- Energy Storage Solution
- Renewable Energy Integration
- Modular Design for Flexible Expansion



ACWA Power and China Energy International Group sign EPC contract for Uzbekistan's solar PV project, promising to bring clean energy to the region and support Uzbekistan's commitment to a low-carbon economy. ACWA Power and China Energy International Group will jointly develop the Tashkent solar site with a capacity of around 50 ???



ACWA Power plans to build a 500 MW solar plant and a 500 MWh battery energy storage system in Uzbekistan under a project proposed by the Asian Development Bank (ADB). Tashkent. Uzbekistan had



# TASHKENT ENERGY STORAGE POLICY



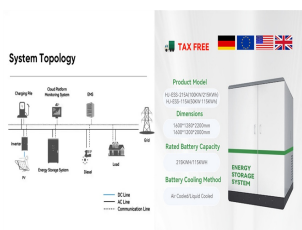
The agreements cover the development of three solar photovoltaic (PV) projects in Tashkent and Samarkand and three Battery Energy Storage Systems (BESS) in Tashkent, Bukhara and Samarkand, with a total capacity of 1.4 GW of additional renewable energy and 1.5 GWh of additional battery storage capacity. The Tashkent projects will include a 400



For these reasons, supporting energy storage technology is a strategic focus for the government of Uzbekistan as it will extend the reach and uses of renewable energy. By helping to introduce technologies in the energy sector, IFC supports Uzbekistan's efforts to ramp up its use of renewables, improve energy security, increase grid stability



The Philippines' first large-scale solar-plus-storage hybrid (pictured), was commissioned in early 2022. Image: ACEN. The Philippines Department of Energy (DOE) has outlined new draft market rules and policies for energy storage, a month after the country allowed 100% foreign ownership of renewable energy assets.



We are India's leading B2B media house, reporting full-time on solar energy, wind, battery storage, solar inverters, and electric vehicle (EV) charging. Our dedicated news portal, monthly magazine, and multimedia products increase our coverage to cater to the different demands of the renewable industry.



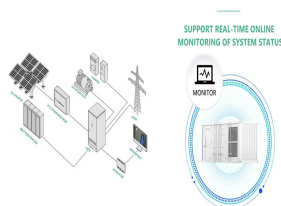
The provision of a long-term, senior A/B loan, including an A loan of up to USD 183.5 million, for the development, design, construction and operation of a 200MW solar photovoltaic power plant and 500 MWh battery energy storage system (BESS) located in the Tashkent region in Uzbekistan (the Project).

# TASHKENT ENERGY STORAGE POLICY

---



increase the capacity of renewable energy generation to 5 GW for solar power and 3 GW for wind by 2030 (compared with no large-scale solar PV plants operational in 2019). The Uzbek government is currently planning to set a ???



UAE-based renewable energy company Masdar has expanded the scale of an agreement with the government of Uzbekistan to develop battery energy storage systems (BESS). A joint development agreement (JDA) was signed between the pair in May 2023 for 2GW of wind energy and 500MWh of battery storage, as reported by Energy-Storage.news at the time.



Leading clean energy company - Masdar - signs joint development agreement with Uzbekistan to develop solar, wind, and battery energy storage projects On track to become one of the world's largest renewable energy companies, Masdar has announced its joint development agreement (JDA) with Uzbekistan's Ministry of Energy (MoE) and the Ministry