



# Bess system for solar Tajikistan

Will the World Bank support a solar photovoltaic plant in Uzbekistan?

Image for representation purposes only. The World Bank on Tuesday (May 21) announced that it will support a 250-megawatt (MW) solar photovoltaic plant with a 63-MW battery energy storage system (BESS) in Uzbekistan -- Central Asia's first renewable energy facility with a utility-scale battery storage component.

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).

Where is Bess project located in Tashkent?

The PV plant and the BESS facility are situated 3.5 km apart, within Yuqorichirchik District and Parkent District respectively. Both districts are located within Tashkent Region. The overall project location lies about 20 km from Tashkent City.

What are the main components of Bess project?

The Project consists of two main components, namely the Photo-Voltaic (PV) power station and the Battery Energy Storage System (BESS). The PV plant and the BESS facility are situated 3.5 km apart, within Yuqorichirchik District and Parkent District respectively. Both districts are located within Tashkent Region.

What is a Bess project?

The project aims to expand clean and reliable electricity access to approximately 75,000 households. The project marks Central Asia's first renewable energy initiative with an integrated BESS component.

What does Bess stand for?

The Project will also involve the establishment of a 500 MWh AC-coupled Battery Energy Storage System (BESS). The BESS will operate on an independent basis (separately from the PV plant) and be developed close to the existing sub-station. The BESS facility will serve the following main functions:

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According to EDF Renewables, the 100MWh battery system will help support the integration of renewable energy by storing it for when there is a peak in demand. The lithium-ion battery system will be directly connected to ...

The project marks Central Asia's first renewable energy initiative with an integrated BESS component, which



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promises enhanced efficiency, flexibility, and reliability in ...

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 ...

The Scottish government has given Kona Energy the green light for the construction and operation of the Smeaton battery energy storage system (BESS), a 228 MW/456 MWh project near Dalkeith, East Lothian. The ...

Introducing the innovative BESS component will improve the efficiency and flexibility of the power system, providing greater security of supply and helping to mitigate the intermittency of renewable generation.

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