

Manufacturing energy storage ulaanbaatar

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On September 6, 2024, Manduul Nyamandele, First Deputy Governor of Ulaanbaatar City, and Zhibin Chen, an Accredited Representative of "Envision Energy" LLC, signed an Agreement for the Construction of a Battery Storage Power Station in Baganuur district, Ulaanbaatar.

To prepare for the winter of 2024-2025, prevent electricity and heating shortages, and ensure uninterrupted power supply to consumers, an international open tender for the construction of a battery storage power station in Baganuur district, Ulaanbaatar, was announced on June 26, 2024. As a result, "Envision Energy" LLC was selected as a contractor.

The Battery Storage Power Station will be built on a 5-hectare area in the 1st subdistrict of Baganuur district, northwest of the Baganuur Substation. The Battery Storage Station will have a capacity of 50 MW, an energy storage capacity of 200 MWh, and an electrical frequency of 50 Hz with three phases and will be connected to the 220/110/35 kV Baganuur Substation.

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ULAANBAATAR, MONGOLIA (22 April 2020) – The Asian Development Bank (ADB) has approved a \$100 million loan to help supply renewable energy to Mongolia by installing its first large-scale advanced battery energy storage system (BESS).

"Mongolia is among the most heavily coal dependent developing member countries of ADB, and its

energy sector is the largest contributor to its greenhouse gas emissions, accounting for about two-thirds of the total," said Director General of ADB's East Asia Department James Lynch. "The project will lead to the decarbonization of the energy system in the country with increased penetration of renewable energy."

In 2018, coal-fired combined heat and powerplants contributed to 93% of total power generation in the electricity grid. Mongolia's rich renewable energy potential—such as wind and solar—is estimated to be equivalent to 2,600 gigawatts, which could fully meet the country's future power demand. However, this rich potential has not been realized. The government aims to increase the share of renewable energy in total installed capacity from about 12% in 2018 to 20% by 2023 and 30% by 2030, in line with the State Policy on Energy, 2015–2030.

The project will install 125 megawatts of advanced BESS making it among the largest battery storage systems globally. The BESS will be resilient to Mongolia's extremely cold climate and equipped with a battery energy management system enabling it to be charged entirely by renewable electricity. This will then discharge clean electricity to supply peaking power in the central energy system grid. The project will also provide regulation reserve to integrate additional renewable energy capacity in the transmission grid.

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