



Texas energy storage kazakhstan

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November 10, 2021: Total Eren, the Paris headquartered independent power producer based in Paris, signed a memorandum of understanding on October 28 with the Kazakhstan energy ministry, the National Wealth Fund known as Samruk-Kazyna, and the state-run KazMunaiGas.

The four will work on the development, financing, construction and operation of hybrid power plants deploying 1 GW wind energy combined with 500MW to 1 GWh of energy storage system to be located in central Kazakhstan.

"It is a remarkable step forward for the energy sector in Kazakhstan, a country which has put in place a long-term sustainable strategy with the aim of reaching carbon neutrality by 2060, with an intermediary step of increasing the portion of renewables to 15% by 2030," according to a Total official.

The project will consist of about 200 wind turbines totalling 1 GW of installed capacity, coupled with a very large battery storage system (500 MW-1 GWh) provided by Saft, and 100% owned by TotalEnergies.

"The project will produce about 3,800 GWh annually for 30 years, enough to supply more than 1 million people in Kazakhstan every year with low-carbon electricity, while reducing CO2 emissions by about 3.2 million tonnes per year.

The project will support regional sustainable growth and contribute to local employment. Diverse educational programs involving the local population such as workshops on renewable energy will be conducted in cooperation with the local municipalities, and a centre of expertise on storage will be created.

Total Eren was one of the first international players to develop renewable energy projects in Kazakhstan. The company has developed, financed, built and commissioned in 2019 two solar photovoltaic farms totalling 128 MWp.

Energy Storage Journal (business and market strategies for energy storage and smart grid technologies) is a quarterly B2B publication that covers global news, trends and developments in energy storage and smart grid markets.

In a bid to bolster Kazakhstan's renewable energy sector, Masdar joins forces with the nation to develop a gigawatt-scale wind farm equipped with a state-of-the-art battery energy storage system (BESS).

Also known as Abu Dhabi Future Energy Company PJSC, Masdar has partnered with Kazakhstan Investment Development Fund (KIDF) Management Company Ltd., the Kazakhstan energy ministry, and the sovereign wealth fund Samruk-Kazyna to launch this project.



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The first phase will be developed in the picturesque Jambyl region. Masdar's CEO, Mohamed Jameel, noted that the wind farm is the company's first project in Kazakhstan.

The project marks a significant move for Masdar as they continue to invest in the region. Their roadmap for the project was signed on the sidelines of the Astana International Forum in front of UAE Minister of Energy and Infrastructure Suhail Mohamed Al Mazrouei.

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