



SolarTech Power Solutions

Kazakhstan 2MW wind solar and energy storage project



Overview

What is the target capacity for wind farms in Kazakhstan by 2030?

The framework of this program provides for the implementation of wind farm construction with the introduction of 2,000 MW by 2030. For the development of wind energy potential, the Government of Kazakhstan, with the support of the United Nations Development Program, has developed a program of wind energy development through 2030.

How many wind power plants will be built in Kazakhstan?

The wind farm is to produce 100 MW of energy and save 262 thousand tons of CO₂ emissions by coal-fired power plants annually (Kazinform, 2020). Overall, large scaled wind power plants are planned to be constructed on ten sites selected by the Ministry of Industry and New Technologies of the Republic of Kazakhstan.

Does Kazakhstan have a wind energy development program?

Yes, the Government of Kazakhstan, with the support of the United Nations Development Program, has developed a program of wind energy development through 2030. This program aims to construct wind farms with a total capacity of 2,000 MW by 2030.

How efficient is solar energy in Kazakhstan?

The potential of solar energy in Kazakhstan is estimated at 2.5 billion kWh per year, which corresponds to an area of about 10 km² of solar cells with a total efficiency of 16%. The average efficiency of modern solar panels varies in the range of 15-25%. Solar energy can be widely used in two-thirds of the territory of the Republic of Kazakhstan.

What is Kazakhstan's largest solar project?

Kazakhstan's largest solar project – a 100 MW field in Saran, Karaganda Province – was opened last year by a German company, also with EBRD

backing. Russian engineers doubled capacity at the EBRD-backed Burnoye plant in Zhambyl in 2018.

Will Kazakhstan increase its energy production to 15% by 2030?

Historically focused on oil and gas, and experiencing sustained growth in its energy demand, Kazakhstan has set itself the target of increasing the proportion of renewable energies in its electricity production to 15% by 2030 (1).

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