

## ContainerPower Energy Solutions

# Kazakhstan wind power storage



## Overview

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Is Kazakhstan suitable for wind energy applications?

Kazakhstan's steppe geography makes it suitable for wind energy applications and the estimated potential of wind energy that can be economically developed is about 760GW.

How many wind power plants are there in Kazakhstan?

Currently only one wind energy plant is operating in Kazakhstan; the Kordai wind power plant with 1500 kW capacity was launched in December 2011 in Zhambyl region. One of Kazakhstan's power companies, Samruk-Energy JSC, was recently awarded a \$94 million loan from the Eurasian Development Bank to build Kazakhstan's largest wind farm.

Could Kazakhstan increase its wind power capacity by 2035?

4 Kazakhstan's vast and cost-efficient wind energy potential offers a particularly strong foundation for scaling up renewable energy capacity. The country could increase its wind power capacity to 10 gigawatts by 2035, twice as much as the government is currently planning - or even more.

Does Kazakhstan have a wind farm?

One of Kazakhstan's power companies, Samruk-Energy JSC, was recently awarded a \$94 million loan from the Eurasian Development Bank to build Kazakhstan's largest wind farm. The project will produce 172 million kilowatt-hours of electrical energy per year, save more than 60 million tons of coal, and reduce emissions of greenhouse gases.

How will Kazakhstan support its energy transition?

To support Kazakhstan's energy transition through the expansion of wind installed capacity. The Project will develop, construct, and operate a 100-megawatt (MW) wind power plant.

Does Kazakhstan have a green energy potential?

Thanks to the advantageous geographical location and features, Kazakhstan has a great green energy potential, especially when it comes to wind power with wind corridors with an average wind speed of 5-6 meters per second (m/s) (Antonov, 2014). Wind energy is one of the most dynamically developed renewable energy sources.

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