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# Kazakhstan 2kw wind power generation system





## Overview

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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.

Which region of Kazakhstan has the highest wind energy potential?

Caspian region, central and northern Kazakhstan, and southern and south-eastern Kazakhstan have the highest wind energy potential. According to the Ministry of Industry and New Technologies of Kazakhstan, wind power potential of the country is estimated at 920 billion kWh of electricity annually.

Does Kazakhstan have a wind energy resource?

Kazakhstan is rich in wind energy resources. Wind energy resource assessments show that windy sites (with wind speeds over 6 metres per second, m/s) available near the Caspian sea, around the Astana-Karaganda and some areas in the South.

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 CO<sub>2</sub> 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.



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