

## Kongres Container

# Kazakhstan s solar power generation and energy storage prospects



## Overview

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Kazakhstan has made notable strides in its commitment to sustainable development and renewable energy. The "Green Economy Concept" sets a target of generating 15% of electricity from renewables by 2030, marking a shift toward a sustainable economic model. By ratifying the Paris Agreement, the.

Kazakhstan's renewable energy capacity could reach 19 gigawatts (GW) by 2030, representing at least 30% of the nation's total generating capacity, according to Nabi Aitzhanov, CEO of the Kazakhstan Electricity Grid Operating Company (KEGOC). To support this expansion, the country would require a.

In 2024, Kazakhstan's renewable energy sector is witnessing significant advancements, underscoring the country's commitment to sustainable energy sources. Despite this growth, experts emphasize that challenges in energy storage systems remain a critical hurdle. A recent roundtable discussion.

Kazakhstan has remarkable solar potential with a very well-designed auction system, a clear renewable capacity addition schedule, and a solid decarbonisation target. The country is now also including storage systems as part of its public procurement strategy in a move that will ease further.

Kazakhstan is Central Asia's energy transition pioneer. It was the first country in the region to set renewable energy targets, develop a functioning support mechanism for wind and solar, launch an emissions trading system, and establish a carbon neutrality target. To date, Kazakhstan's approach. Is Kazakhstan a good place to invest in solar power?

Kazakhstan has remarkable solar potential with a very well-designed auction system, a clear renewable capacity addition schedule, and a solid decarbonisation target. The country is now also including storage systems as part of its public procurement strategy in a move that will ease further integration of renewables into the grid.

What is the energy transition in Kazakhstan?

To date, the energy transition in Kazakhstan has almost exclusively focused on electricity generation, consisting mainly of the deployment of new solar and wind facilities. By contrast, there is almost no heat production from renewable energy sources, aside from traditional biomass such as fire-wood. The biogas sector remains very underdeveloped.

What are Kazakhstan's Energy goals?

In 2013, Kazakhstan introduced renewable energy targets: by 2020, 3% of electricity was to be generated from solar, wind, small hydro-power, and biogas – a target that was met on time. By 2030, the goal is to reach 15%. There is also an interim target of 6% by 2025, which Kazakhstan is on track to achieve.

Why is Kazakhstan important to Central Asia?

Kazakhstan is Central Asia's energy transition pioneer. It was the first country in the region to set renewable energy targets, develop a functioning support mechanism for wind and solar, launch an emissions trading system, and establish a carbon neutrality target.

What are Kazakhstan's goals for renewables in 2025?

There is also an interim target of 6% by 2025, which Kazakhstan is on track to achieve. Kazakhstan's support framework for renewables was developed in close cooperation with the European Bank for Reconstruction and Development (EBRD) and later also with USAID's Power Central Asia Program.

Can solar power drive Kazakhstan's decarbonisation?

The focus now is on leveraging solar's comparative advantages to drive forward Kazakhstan's decarbonisation and harness its significant solar resources. This report builds on the first edition of solar investment opportunities in Kazakhstan.

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