

ContainerPower Energy Solutions

Kazakhstan s solar energy storage policy



Overview

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.

Should Kazakhstan adopt an energy security strategy?

Global trend of tightening carbon regulation presents yet another impetus for broader modernization and systemic reforms of energy sector in Kazakhstan. Kazakhstan should articulate and adopt an official Energy Security Strategy document, guided by these general observations.

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.

What's new in Kazakhstan?

This update contains the latest economic and political advancements in the country, including the announcement of Kazakhstan's new decarbonisation target for 2060, and the recent Memorandum of Understanding signed between the EU and Kazakhstan, stepping up cooperation on renewables, green hydrogen, and battery value chains.

Will Kazakhstan achieve its INDC conditional emissions target by 2030?

Given its current trajectory, Kazakhstan may not achieve its INDC conditional emissions target by 2030; national GHG emissions may even drift upwards in early 2020s with further economic recovery and higher energy consumption; a

more concerted effort is needed to reverse this.

Can Kazakhstan achieve its INDC target by 2030?

Kazakhstan's officially reported GHG emissions totaled 340.8 MMt CO₂e in 2021, down 7% from 367.7 MMt CO₂e in 2015. To achieve Kazakhstan's INDC (unconditional) emissions target of 324.4 MMt CO₂e by 2030, this positive downward trend would have to continue and accelerate slightly; this is certainly possible if:

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