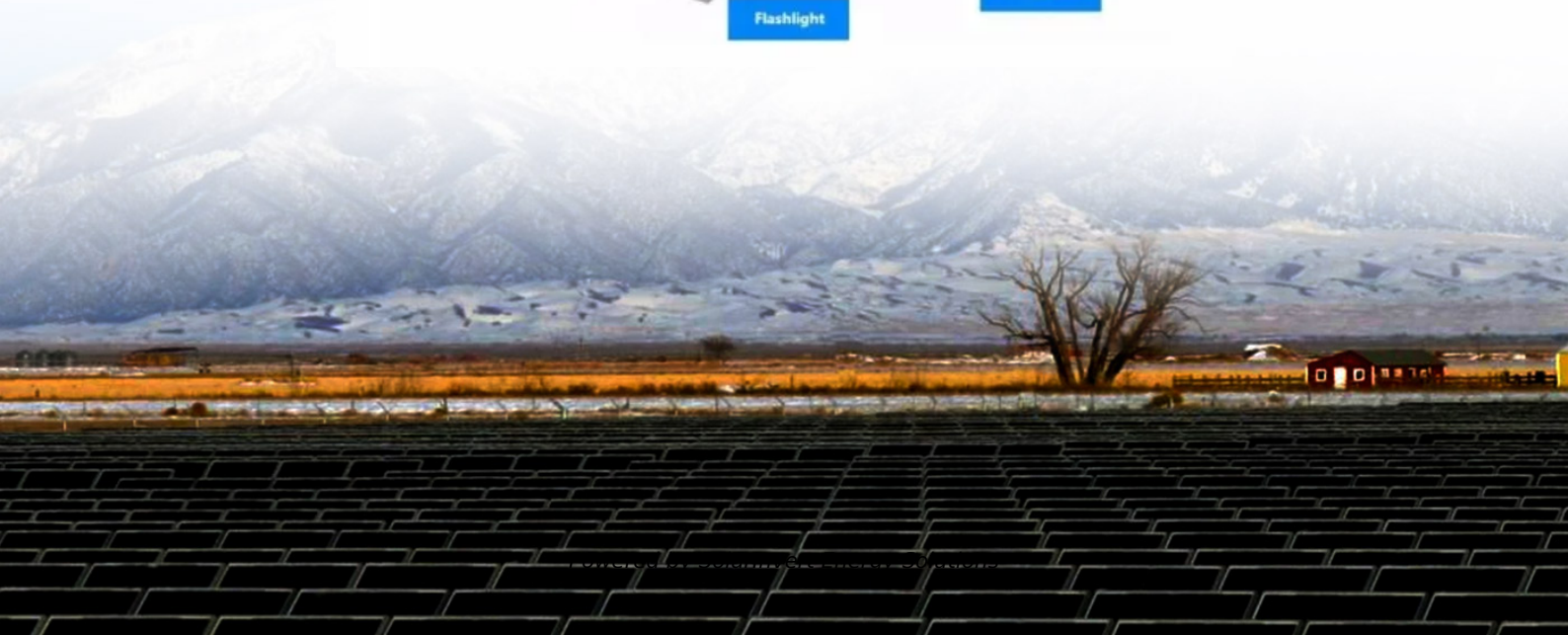


## SolarInvert Energy Solutions

# Kazakhstan s photovoltaic energy storage policy



## Overview

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Currently, there is no specific regulation or program to support energy storage system in Kazakhstan. In essence, there is virtually no regulation of ownership, construction and operation of energy storage systems in Kazakhstan. 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.

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 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.

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.

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 grid integration a problem in the Kazakh power system?

Although the share of wind and solar energy in the Kazakh power system is still relatively low, grid integration issues are already becoming a concern. This is because the output of old coal-fired power plants, unlike that of hydro-power or gas-fired power plants, cannot be flexibly regulated.

## Kazakhstan s photovoltaic energy storage policy

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### What are the energy storage projects in Kazakhstan?

Governmental policies play a pivotal role in the development and implementation of energy storage projects in Kazakhstan. The government ...

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### Kazakhstan's National Energy Report 2023

The ongoing energy transition (shifting consumption from fossil fuels, particularly hydrocarbons, to cleaner renewable types of energy) will be an extremely challenging, multi-decadal process ...

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### Kazakhstan solar system distribution

The potential of solar energy in Kazakhstan is estimated at 16% efficiency and 2.5 billion kWh per year, which corresponds to an area of about 10 km<sup>2</sup> of solar cells. Solar energy can be widely ...

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### Kazakhstan's renewable energy

## grows, but energy storage ...

In 2024, Kazakhstan's renewable energy sector is witnessing significant advancements, underscoring the country's commitment to sustainable energy sources. ...

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## Kazakhstan's Energy Transition

Moving forward, Kazakhstan will need to address sensitive and challenging issues such as planning a just coal phaseout, raising energy tariffs, and phasing out fossil fuel subsidies.

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## ENERGY STORAGE SYSTEMS IN KAZAKHSTAN: TIME FOR ...

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The most widely recognized solution to this issue is the introduction of energy storage systems (hereinafter - ESS), which aim to accumulate energy and

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auctions will be an essential policy tool ...

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## Photovoltaic energy storage in Kazakhstan

Furthermore, the feed-in tariff for solar energy was approved in Kazakhstan in June 2014, and combined with 15 years PPA period auction (tender) procedure are expected to pave the way

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## Kazakhstan Derisking Renewable Energy Investment

Key Points for Decision-Makers1 The objective of this report is to analyse the most cost-effective public derisking measures to promote private sector investment in utility-scale renewable ...

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### Top five solar PV plants in development in Kazakhstan

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