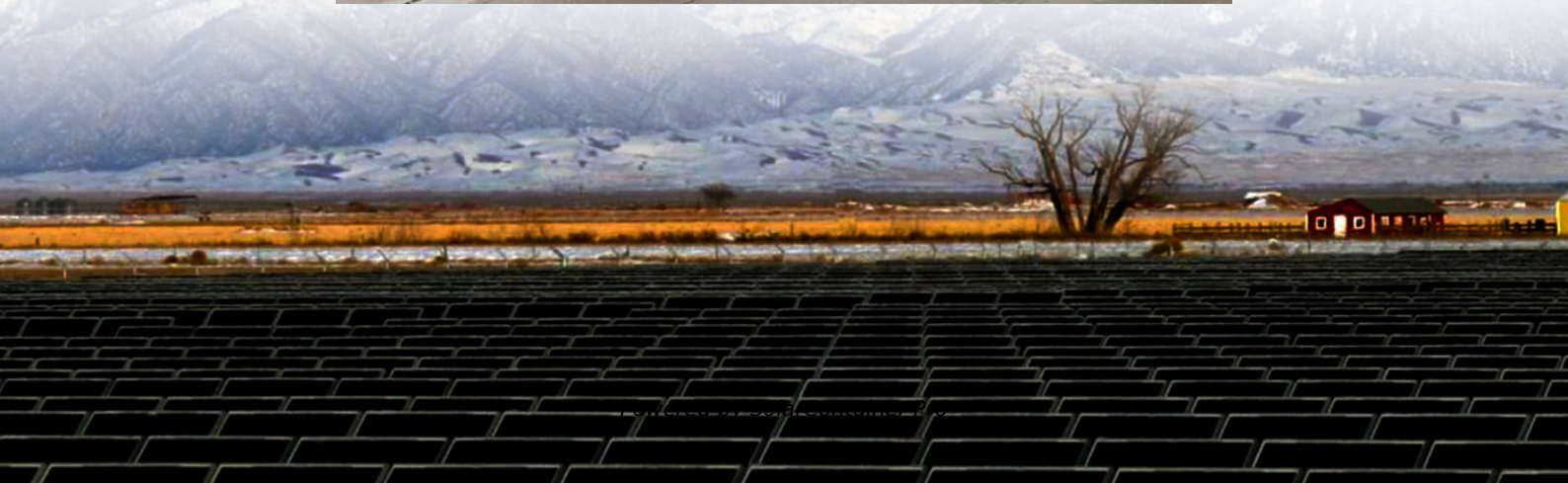


Kazakhstan s environmentally friendly solar energy system application





Overview

Is Kazakhstan a good place to install solar power plants?

At least 50% of the territory of Kazakhstan is suitable for installing solar power plants (Antonov, 2014). However, up until recently, solar resources of the country were not being used for power generation. Kazakhstan is developing solar energy technologies, namely production of photovoltaic modules using local silicon.

Is solar energy a viable energy source in Kazakhstan?

In 2019, another solar power plant in Kazakhstan, Saran, with a capacity of 100 MW started its operation in the Karaganda region (Satubaldina, 2020). According to the International Energy Agency (IEA), within the period of 40 years, solar energy has a potential to meet about 20-25% of the energy demand of the country.

Is Kazakhstan adopting renewable energy?

Kazakhstan's new leadership, faced with concurrent challenges of volatile oil prices and the coronavirus pandemic, has approved nineteen new renewable energy projects worth \$1.1 billion. This is the country's latest effort to go green and diversify its energy supply.

How much solar energy does Kazakhstan use a year?

Solar energy can be widely used in two-thirds of the territory of the Republic of Kazakhstan. In the southern regions, the duration of solar radiation is from 2,800 to 3,000 hours per year, and the annual consumption of solar energy is from 1,280 to 1,870 kWh per 1 m².

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.

Can Kazakhstan produce solar cells using silicon?

As Kazakhstan is rich in silicon (85 million tons), production of silicon solar batteries on the domestic market was started (Sim, 2015). In this light, recently “Astana Solar” plant aimed at the production of photovoltaic modules was launched in Nur-Sultan. The plant is to produce solar cells using Kazakhstan’s silicon.



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1Kostanay Regional University, Baytursynov Street 47, Kostanay, Kazakhstan 2,3,5Institute of Energy Systems and Environment, Riga Technical University, Azenes iela 12/1, Riga, Latvia ...

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Deploying a rooftop PV panels in the southern regions of Kazakhstan

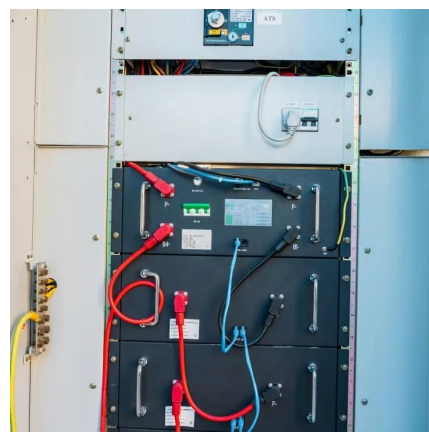
This study explores the development of low-power solar energy in Kazakhstan, with a focus on the potential for deploying rooftop PV panels in the southern regions of the country.

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Solar energy projects Kazakhstan

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