

# Kazakhstan has good scenery and solar storage

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 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.

Why is Kazakhstan a good country?

Kazakhstan is rich in different mineral resources, oil, gas and coal being the most important ones for the economy of the country. Therefore, since independence, the government of Kazakhstan mainly focused on developing the fossil fuel industry rather than alternative energy resources.

Which part of Kazakhstan receives the most solar radiation?

During the summer months (June - August), due to its geographical location, the southern part of Kazakhstan receives direct solar radiation for the most of the daylight hours which constitute 83 - 96% of the maximum possible value.

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

In the heart of Central Asia, Kazakhstan is emerging as a key player in the global energy transition, leveraging its vast landscapes and abundant resources to pioneer renewable energy ...

**Current Portfolio and Strategic Growth** Kazakhstan's renewable energy portfolio is diverse, spanning key technologies like wind, solar, and hydroelectric power. This strategic diversification not ...

**Geographical Location:** Kazakhstan is located in Central Asia, bordered by Russia, China, Kyrgyzstan, Uzbekistan, and Turkmenistan, with access to the Caspian Sea in the west. It is the largest ...

Kazakhstan has significant potential for renewable energy. The wind potential is estimated to be 1.8trn kWh per year, which is close to 10 times Kazakhstan's current energy consumption, according to UN ...

**ASTANA** - Kazakhstan's renewable energy sector demonstrated steady growth in 2024, though energy storage systems remain a key challenge, said experts during a roundtable discussing ...

Currently, solar power plants produce 697 MW, which is half of the renewable energy production in Kazakhstan. Solar power has a great potential as a renewable energy resource due to sparsely ...



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In addition to these RE auctions, Kazakhstan's government has been negotiating bilaterally with large investors to build gigawatt-scale RE capacity with integrated energy storage.

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