

## SolarTech Power Solutions

# Kazakhstan outdoor power supply parameter configuration



## Overview

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What is the structure of electricity generation in Kazakhstan compared to 2023?

The structure of electricity generation in Kazakhstan as compared to 2023 is as follows: Electricity consumption In 2024, electricity consumption in Kazakhstan increased by 4,908.3 million kWh (4.3%) compared to 2023, reaching a total of 119,995.5 million kWh.

How did Kazakhstan's hydropower plants perform in 2024?

In 2024, electricity generation at Kazakhstan's hydropower plants (HPPs) increased by 2,475.2 million kWh (28.3%) compared to the same period in 2023. The profile of Kazakhstan hydropower operations is driven by water balance and hydrological conditions.

What is unified power system of Kazakhstan (ups)?

Structure of Power Industry in Kazakhstan The Unified Power System of Kazakhstan (UPS) is a package of power plants, transmission lines and substations, providing reliable and quality electricity to the consumers of the country. Schematic map of electrical networks 1150-500-220-110 kV UPS of the Republic of Kazakhstan as of 2025.

Who controls the power industry in Kazakhstan?

Control in the power industry is in the hands of the public authority for state energy control: the Committee for State Energy Supervision of the Ministry of Energy of the Republic of Kazakhstan. The authority for state energy supervision and control shall monitor:

How many MW is ups generating in Kazakhstan?

The generation output during the combined peak hour of the UPS of Kazakhstan amounted to 15,402 MW, distributed as follows: Northern Zone - 11,000 MW; Southern Zone - 2,330 MW; Western Zone - 2,072 MW. The

deficit in the Southern Zone was covered via the North-South transit at 2,171 MW.

What does the Ministry of energy of Kazakhstan do?

Ministry of Energy of Kazakhstan shall: exercise other authorities as defined in the present Law, other laws of the Republic of Kazakhstan, acts of the President of the Republic of Kazakhstan and the Government of the Republic of Kazakhstan.

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