

ContainerPower Energy Solutions

Kazakhstan simplifies energy storage projects



Overview

How will Kazakhstan's energy sector modernize by 2029?

ASTANA—Kazakhstan's energy sector is embarking on a major modernization initiative by 2029. According to an analytical piece by Kazinform, the initiative will address aging infrastructure, tariff policies and rising demand, focusing on sustainability and equitable solutions.

How much energy does Kazakhstan generate from renewables?

According to the Ministry of Energy of the Republic of Kazakhstan, over nine months of 2024, the country increased its electricity generation from renewables by 18 percent compared to the nine months of 2023, with renewables now accounting for 6,67 percent of the national energy mix.

How big is Kazakhstan's Energy network slated for modernization?

"The volume of networks slated for modernization spans 80,000 kilometers—equivalent to two equators," said Sergey Agafonov, the chairman of the Kazakhstan Association of Energy Supply Organizations, highlighting the project's scale.

How has Kazakhstan's energy infrastructure deteriorated?

Aging infrastructure and electricity losses Kazakhstan's energy infrastructure has deteriorated, with over a third of power plants showing 70–90% wear and tear. This includes critical facilities such as combined heat and power (CHP) and state district power plants (GTPP), which have struggled to maintain consistent supply.

How can green financing be improved in Kazakhstan?

As part of the joint project with the Ministry of Energy of the Republic of Kazakhstan, green bonds, financial support programmes, and site-specific renewable energy (RE) auction mechanisms were developed and implemented to increase the accessibility of green financing.

How much money does Kazakhstan invest in energy?

The initiative is a significant milestone in Kazakhstan's energy strategy, with an estimated investment of 13.5 trillion tenge (US\$25.5 billion), including 6.2 trillion tenge (US\$11.7 billion) for energy sector modernization, 6.8 trillion tenge (US\$12.8 billion) for utilities, and 602 billion tenge (US\$1.12 billion) for automation.

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