

Kazakhstan s new energy storage policy

FLEXIBLE SETTING OF
MULTIPLE WORKING MODES



Overview

Large renewable projects include storage facilities with a total capacity exceeding 3 GWh, enabling surplus electricity generated during low-demand hours to be stored and used during peak periods, thereby strengthening the stability of the Unified Power System. It is planned to commission 9 RE projects with a total capacity of 455. One of the obstacles to the effective and economical use of RE within the unified power system is the “intermittent” power supply of wind and solar energy, as the sun does not shine and the wind does not blow. Kazakhstan's renewable energy capacity could reach 19 gigawatts (GW) by 2030, representing at least 30% of the nation's total generating capacity, according to Nabi Aitzhanov, CEO of the Kazakhstan Electricity Grid Operating Company (KEGOC). To support this expansion, the country would require a. As part of the implementation of the instructions of the President of the Republic of Kazakhstan, Kassym-Jomart Tokayev, delivered on 28 January 2025 at an expanded meeting of the Government, comprehensive efforts are underway to ensure the systemic development of the electric power sector and. 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. Coal powers 66 percent of Kazakhstan's electricity and is responsible for 40 percent of its emissions, yet current plans to grow renewables to 25 percent by 2035 would cut power.

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[Kazakhstan - Wind and Energy Storage Systems](#)

Beyond infrastructure development, the Project will demonstrate grid stability solutions for large-scale RE integration while supporting policy frameworks for energy storage and ancillary services.

Kazakhstan energy storage

UK scientists join forces to strengthen energy storage businesses in Europe APS Energia selected the solution owing to its reliability in harsh winter conditions and its maintenance-free



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As part of the implementation of the instructions of the President of the Republic of Kazakhstan, Kassym-Jomart Tokayev, delivered on 28 January 2025 at an expanded meeting of the ...

[Energy Storage Systems: Regulation and Incentives in Kazakhstan](#)

A pilot project for the implementation of ESS is planned based on the signed agreement between JSC KEGOC, China Power International Development Limited, China Power International Holding ...



[Energy Storage Systems: Regulation and Incentives in Kazakhstan](#)

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



[Empowering the Future of Kazakhstan's Energy Sector](#)

Kazakhstan's energy subsidy reform journey is well underway - the package of reforms, including a new methodology for regulating the electricity and heating sectors was approved by the ...



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Government measures, implemented through the Ministry of Energy, are focused on increasing installed capacity, launching large-scale modernization and new generation projects, and establishing a ...

[Kazakhstan's power system 2035: options for development](#)

Ramping up renewables, avoiding new coal capacity and boosting the operational flexibility of existing fossil assets can accelerate a cost-effective 2 transformation of the power sector.



[Kazakhstan's Energy Sector Modernization: Challenges and National...](#)

At the end of 2024, the Kazakh government launched a national project to modernize the energy and utility sectors and address long-standing issues, including decaying infrastructure, rising ...

[Kazakhstan aims for major growth in renewables and battery storage](#)

To address this, Kazakhstan plans to add 6.5 GW of flexible, gas-fired generation capacity by 2035. Additionally, the government will require all large-scale renewable energy facilities ...



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