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Kazakhstan Emergency Energy Storage Power Supply



Overview

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.

Should Kazakhstan adopt an energy security strategy?

Global trend of tightening carbon regulation presents yet another impetus for broader modernization and systemic reforms of energy sector in Kazakhstan. Kazakhstan should articulate and adopt an official Energy Security Strategy document, guided by these general observations.

Could Kazakhstan increase its wind power capacity by 2035?

4 Kazakhstan's vast and cost-efficient wind energy potential offers a particularly strong foundation for scaling up renewable energy capacity. The country could increase its wind power capacity to 10 gigawatts by 2035, twice as much as the government is currently planning – or even more.

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.

Should Kazakhstan address energy deficiency?

It is necessary to address Kazakhstan's energy deficiency and intensity of the economy, which in 2022 was 3.2 times higher than that of Organisation for Economic Co-operation and Development (OECD) nations and nearly double the global average.

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.

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