



## Overview

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Energy Association (USEA), in collaboration with the Kazakhstan Electricity Grid Operating Company (KEGOC), strengthened Kazakhstan's energy security by enhancing the stability and resilience of its national power grid through the deployment of Flexible Alternating Current.

## Kazakhstan grid stabilization

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

By increasing the share of renewables to 35 percent by 2035, Kazakhstan could reduce power sector emissions by 4 percent compared to 2023 while lowering system costs by 40 percent compared to

### [Kazakhstan's Energy Grid Crisis and the Crypto Mining Ban Explained](#)

Kazakhstan's aging power grid is causing huge electricity losses, prompting a ban on large crypto mining farms. Learn why the ban happened, how the grid is being upgraded, and what



### [Kazakhstan to Link Western Regions to National Grid in Major](#)

The Zhambyl Region, located in southern Kazakhstan, serves as an important intersection linking several parts of the national grid. The project includes the construction of two 500-kilovolt

### [Kazakhstan bolsters energy sovereignty with KEGOC's ambitious grid](#)

Kazakhstan's KEGOC reported stable grid operations in 1H2025, enabling it to advance a large-scale modernization strategy amid rising electricity demand.





### [Analysis of the Current State of the Power Grid in Almaty, Kazakhstan](#)

The power grid is over fifty years old, and as the infrastructure begins to deteriorate it malfunctions more often. Power grids can be taxed to the limit when severe weather conditions like

### [Supporting Kazakhstan's Renewable Energy Transition: Technical](#)

Balancing capacity is becoming increasingly important with a higher share of renewable energy generation and is critical to maintaining grid stability and contributing to a successful renewable



### **Success Stories -Kazakhstan Energy Security**

The United States Energy Association improved Kazakhstan's energy security by deploying FACTS technologies to reduce reliance on the Russian grid and stabilize regional power flows. The project

### [KEGOC Outlines Major Grid Modernization Projects Through 2035 at](#)

This past week, Kazakhstan's national grid operator KEGOC presented key projects to upgrade the country's energy infrastructure. The company reviewed its 2024 performance and



### **KAZAKHSTAN**

To deploy renewables at scale, the Government embarked on a grid strengthening program, which includes new transmission infrastructure developed by KEGOC and introduction of large-scale

### [Empowering Kazakhstan's Energy Future through Smart](#)

In this section, we made our assessment of the level of incorporation of smart grid technologies in Kazakhstan's electric grid to provide general understanding of our progress towards energy transition.



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