

Global Energy Interconnection Kazakhstan



Overview

The project involves the creation of a “Green Energy Corridor” designed to facilitate the export of environmentally friendly electricity, as well as green hydrogen and green ammonia, from Central Asian countries to European markets via the Caspian region. Kazakhstan's Mazhilis, the lower house of parliament, has ratified a strategic partnership agreement with Uzbekistan and Azerbaijan on cooperation in green energy production and transmission. The multi-phase. The United States Energy Association enhanced Kazakhstan's grid resilience by deploying advanced FACTS technologies to address regional instability and cross-border power challenges. Currently, Kazakhstan UPS operates in parallel with the UES of Russia. eral and fossil fuel resources. Estimates suggest that Kazakhstan holds the second-largest reserves of uranium, chromium, lead, and zinc; the third-largest reserves of manganese; the fifth-largest reserves of copper; and ranks among the top ten globally for coal, iron, and gold.



Article Content

Nov 01, 2025

Global Energy Interconnection: An Innovative Global Solution for ...

Paris Agreement Global Energy Interconnection Development and Cooperation Organization (GEIDCO) Research Center for Sustainable Development (RCSD)

Aug 11, 2025

The green great game: Crafting an EU-Central Asia

Kazakhstan also accounts for 40% of global uranium production and is the leading provider for the EU's nuclear energy sector, meeting 21% of the

Apr 02, 2026

Energy Connectivity in Central Asia

Enhanced energy connectivity requires greater electricity transmission capacity. Most ambitious scenario unlocks the potential for electricity trade within Kazakhstan and enhanced connections

May 05, 2026

Kazakhstan's Role in Global Energy Security and Supply Chains

Discover how Kazakhstan is driving global energy security and strengthening supply chains. Learn about its strategic role in sustainable energy production, resource diversification, and

Nov 08, 2025

Global Energy Interconnection

Three years ago, China announced a global initiative for the development of a Global Energy Interconnection (GEI). The conclusions of the initial feasibility study were presented by President Xi

Feb 25, 2026

International Cooperation

KEGOC, as the system operator of the Unified Power System of the Republic of Kazakhstan, is responsible for interaction with power systems of neighbouring countries in terms of management

Mar 15, 2026

Global Energy Interconnection: an effective solution to climate ...

GEI was founded to seek a solution to global energy and environment challenges, focusing on energy security and environmental issues related to fossil energy utilization. The

Jul 23, 2026

China's Global Energy Interconnection: Exploring the

The authors of this report demystify the potential global security implications associated with the Global Energy Interconnection—China's

Oct 20, 2025

World Bank Supports Central Asia's First Regional Electricity Market

The multi-phase program will establish Central Asia's first-ever regional electricity market, increase electricity trade, expand transmission capacity, and lay the groundwork for large-scale

Aug 17, 2025

Kazakhstan

Kazakhstan is one of Eurasia's leading energy producers, with proven crude oil reserves of 30 billion barrels (12th largest globally, second in Eurasia). Oil production averaged 1.76 million

Aug 03, 2025

Global Energy Interconnection

Energy concerns the overall situation of sustainable development. To address serious challenges confronting the world energy development, Chinese President Xi Jinping, for the first time

May 25, 2026

Kazakhstan energy profile - Analysis

Kazakhstan energy profile - Analysis and key findings. A report by the International Energy Agency.

Jun 08, 2026

Green Corridor Alliance | Green Corridor Alliance

The Objective of this study is to investigate the technical, environmental, regulatory, and economic viability of an electrical interconnection between Azerbaijan, Kazakhstan, and Uzbekistan and the

Feb 21, 2026

Success Stories -Kazakhstan Grid Resilience

Kazakhstan's power system has long struggled with grid instability due to its interconnection with the Russian network and uncoordinated regional power flows across Central Asia.

May 16, 2026

ACCELERATING SDG 7 ACHIEVEMENT ACTION BRIEF 1

Summary Global Energy Interconnection (GEI) provides an infrastructure platform through which clean energy can be largely developed, transmitted, and consumed globally using a combination of "smart

Dec 24, 2025

Country Analysis for Kazakhstan

The successful implementation of these initiatives will significantly enhance Kazakhstan's energy independence and strengthen regional energy connectivity, enabling cross-border trade in renewable

Aug 25, 2025

Country Analysis for Kazakhstan

I: Kazakhstan's potential for a sustainable energy system and its role in promoting regional energy connectivity and system resilience The Republic of Kazakhstan possesses an abundant supply of

Jul 28, 2025

Kazakh Parliament Backs Caspian Green Energy

Kazakhstan's Mazhilis, the lower house of parliament, has ratified a strategic partnership agreement with Uzbekistan and Azerbaijan on cooperation

Mar 17, 2026

2025 Global Energy Interconnection Conference

The biennial Global Energy Interconnection Conference has become a leading platform for high-level dialogue, knowledge exchange, and partnership building. We are delighted to invite you to the 7th

Nov 02, 2025

Energy Policy Brief: Turkmenistan

Kazakhstan's economy relies on its fossil fuel exports, accounting for around 17,7% of the total GDP value in 2023, nearly 60% of total exported value. This makes it the second most carbon-intensive

May 15, 2026

Strengthening the Strategic Partnership between the European Union

The leaders welcomed President Tokayev's visit as a strong signal of the growing strategic partnership between the European Union and Kazakhstan at a time of increasing

Sep 12, 2025

Executive Summary

Kazakhstan is the largest emitter of CO₂ in Central Asia, with a CO₂ intensity of GDP 70% higher than the global average. The energy sector accounts for roughly 85% of the country's emissions, with

Aug 16, 2025

Global power grid interconnection for sustainable growth: concept ...

Transcontinental grid interconnection and clean energy development for sustainability are the prime objectives to address through global energy interconnection (GEI) platform. Key issues

Feb 14, 2026

Cooperative electric energy transmission between Central Asia and ...

Through the long-distance transmission of electric energy, global interconnected power grids have become promising for the decarbonization of the powe

Dec 01, 2025

The scoping study of Kazakhstan-China-Republic of Korea power ...

This study proposes the Kazakhstan-China-Republic of Korea networking scheme, analyzing the characteristics of power supply and demand in these countries. Based on the regional

Jun 16, 2026

Global energy interconnection | IEC

Global energy interconnection (GEI) is technically highly complex. It will require a level of dependability never seen before. International Standards inherently contain solutions that will help

Jun 17, 2026

Global Energy Interconnection | Journal

The provision of low carbon energy to our society is a key issue at the heart of sustainable development of global energy supply. The Global Energy Interconnection (GEI) Journal publishes original research

Aug 19, 2025

Global Energy Interconnection Development and Cooperation

Launched in March 2016 with its headquarters in Beijing, China, Global Energy Interconnection Development and Cooperation Organization (GEIDCO) is a non-profit international organization

Oct 15, 2025

Kazakhstan's readiness for renewable energy integration at scale

This policy brief explores how Kazakhstan can successfully integrate higher shares of renewable energy while maintaining power system reliability and affordability.

Feb 25, 2026

Reshaping Energy in Eurasia: Insights from Kazakhstan and

PwC presents the study titled “Reshaping Energy in Eurasia: Insights from Kazakhstan and Uzbekistan,” dated September 2025. This study encompasses global energy transition trends, a comparison

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