

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.

Is the Kazakhstan-China pipeline a good option for Kazakh oil exports?

The Kazakhstan-China Pipeline (KCP) was main non-Russian route for Kazakh oil exports in 2022. - KCP remains substantially underutilized, as it tends to yield relatively unattractive netbacks given fixed China border price at discount to an international benchmark and provides access to one market (and buyer).

Are Kazakhstan's crude oil barrels the most expensive in the world?

2023 S&P Global. Kazakhstan's barrels are not the most expensive in the world to produce, but most of its "new" barrels still lie at the high end of the global cost curve. Notes: Ranking as of third quarter 2023 for 30 largest crude oil producers in 2022.

Is Kazakh ready to transition to market-based refined product prices?

Kazakh authorities remain officially committed to a gradual transition to market-based refined product prices, in keeping with the Eurasian Economic Union (EAEU) goal of launching a common market in oil and refined products in 2025 (e.g. raising the ceiling on gasoline and diesel prices).

Gravity energy storage (GES) has the advantages of high environmental adaptability, long life, high environmental protection, which have attracted the attention of more ...

1 Introduction Sodium-ion batteries (SIBs) are emerging as a cost-effective alternative to lithium-ion batteries (LIBs) due to the abundant ...

Kazakhstan is a major producer of all fossil fuels (coal, crude oil and natural gas). In 2018, Kazakhstan was the world's 9th-largest coal producer (108 million tonnes [Mt]). It ranked 17th ...

Ministry of Ecology of the Republic of Kazakhstan has recently presented a draft version of doctrine (strategy) on achieving carbon neutrality by 2060, which highlights the ...

A constructed full lithium-ion cell exhibits a capacity of 957 mAh g⁻¹ after 50 cycles at 1 A g⁻¹. This simple one-pot strategy may pave the way for large-scale production ...

GAO was asked to provide information on the role of energy storage in grid operations. This report describes (1) how energy storage can be used to enhance grid operations and ...



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Li ZHANG, Di GAO, Shuo CHEN, Xudong LU, Zhanxi PANG, Chuangtao CHEN, Xunzhao YIN, Cheng ZHUO. An Energy Efficient Floating Point Computing ...

Dr. Gao, Xudong is professor of the School of Economics and Management (SEM), Tsinghua University; Chief Professor of the Schwarzman College, Tsinghua University; and senior ...

List of papers published by Xudong Gao in the field of Medicine, Hepatocellular carcinoma, Biology, Cancer research, Physics, China, Internal medicine, Molecular biology, Virology, ...

Read research published in the ACS Applied Materials & Interfaces Vol. 17 Issue 37 on ACS Publications, a trusted source for peer-reviewed journals.

How is Kazakhstan's energy sector embracing the energy transition and how is this interacting with energy security? What are the technological, political, and regulatory pathways for ...

As of today, the law supporting the use of renewable energy sources has been amended, where for the first time a new concept of electric ...

Energy Storage Materials, 2023, 56: 165-173. Qijie Liu, Erhao Gao, Jing Li, et al. Heterogeneous catalytic ozonation for highly efficient mineralization of phenol with La-modified Ce³⁺-Al₂O₃, ...

High entropy layered oxides as a unique design concept can effectively improve the cycling performance of cathode materials by virtue of ...

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Download Citation | On Sep 1, 2025, Yuhao Yi and others published Operation strategy and configuration optimization method of building envelope energy storage-photovoltaic electric ...

Abu Dhabi Future Energy Company, or Masdar, today announced it has sealed an agreement with the government of Kazakhstan and the Kazakhstan Investment Development Fund (KIDF) ...

Xudong Li, PhD student, EEE, The Hong Kong Polytechnic University - 233 - Renewable Energy - Power system - Storage - Hydropower - Dispatch

This work proposes a facile and effective approach for constructing high-performance SACs electrocatalysts and provides a rational guidance in next-generation energy storage and ...

Nowadays, magnetic coupling is becoming more and more popular as one mean of transferring power energy over medium distance for loosely coupled wireless power transfer (WPT) systems.



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China's Envision Energy has launched construction works on its first manufacturing facility in Kazakhstan in a bid to cater to the region's growing renewable energy ...

Xudong Liu's 36 research works with 1,691 citations and 1,132 reads, including: Co-doped SnS microsphere decorated carbon nanofiber flexible films for supercapacitor applications

The primary strategy to increase dielectric constant and energy storage density is adding a high fraction of fillers with high dielectric constant to polymer matrix.

6Wresearch actively monitors the Kazakhstan Energy Storage Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, ...

Cost-effective energy storage plays a critical role in PV heating to solve the temporal mismatch between supply and demand. Herein, we propose the concept of using a building envelope as ...

Therefore, developing energy storage systems is a complex issue that shall be addressed in a comprehensive and prompt manner by all stakeholders involved in order to reap the benefits of ...

Photovoltaic (PV) heating is a promising technology for achieving fossil fuel-free heating and carbon neutrality in the building sector. Cost-effective energy storage plays a ...

Professor Gao offers courses such as Technology Strategy, Managerial Thinking, Strategic Management, and High Tech Entrepreneurship. Professor Gao's ...

Kazakhstan is a major producer of all fossil fuels (coal, crude oil and natural gas). In 2018, Kazakhstan was the world's 9th-largest coal producer (108 million ...

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