

## European Solar Energy Storage

# Guokai new energy storage technology



## Overview

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Liquid fuels Natural gas Coal Nuclear Renewables (incl. hydroelectric) Source: EIA, Statista, KPMG analysis Depending on how energy is stored, storage technologies can be broadly divided into the following t.

How can energy storage technology improve China's Energy System?

"Key developments in energy storage technologies will play a pivotal role in integrating renewable energy sources and smart grids, thus enhancing the overall flexibility and efficiency of China's energy system," said Fei Zhi, vice-chairman of GCL Group.

What are the benefits of energy storage technologies?

Renewable energy integration and decarbonization of world energy systems are made possible by the use of energy storage technologies. As a result, it provides significant benefits with regard to ancillary power services, quality, stability, and supply reliability.

What is new energy storage?

New energy storage refers to electricity storage processes that use electrochemical, compressed air, flywheel and supercapacitor systems but not pumped hydro, which uses water stored behind dams to generate electricity when needed.

What is the implementation plan for the development of new energy storage?

In January 2022, the National Development and Reform Commission and the National Energy Administration jointly issued the Implementation Plan for the Development of New Energy Storage during the 14th Five-Year Plan Period, emphasizing the fundamental role of new energy storage technologies in a new power system.

How can a new technology improve energy storage capabilities?

New materials and compounds are being explored for sodium ion, potassium ion, and magnesium ion batteries, to increase energy storage capabilities.

Additional development methods, such as additive manufacturing and nanotechnology, are expected to reduce costs and accelerate market penetration of energy storage devices.

When will new energy storage development be introduced?

The commission said earlier it will introduce a plan for new energy storage development for 2021-25 and beyond, while local energy authorities should also make plans for the scale and project layout of new energy storage systems in their regions.

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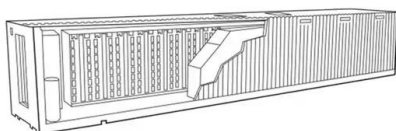


### New energy storage to see large-scale development by 2025

China aims to further develop its new energy storage capacity, which is expected to advance from the initial stage of commercialization to large-scale development by 2025, with an installed capacity of more than 30 million kilowatts, regulators said.

### Recent advancement in energy storage technologies and their

This energy storage technology, characterized by its ability to store flowing electric current and generate a magnetic field for energy storage, represents a cutting-edge solution in the field of energy storage.



### GUOKAI NEW ENERGY TECHNOLOGY

Energy Storage Technology is one of the major components of renewable energy integration and decarbonization of world energy systems. It significantly benefits addressing ancillary power services, power quality stability, and power supply reliability.

### A review of energy storage science and technology ...

During the period of 2021--2025, both fundamental research and key technology in the direction of energy storage will be supported by the national key R& D program "technology of energy storage and smart grid".



## China's innovation on energy storage is attracting global attention

The solution lies in advanced energy storage solutions - essentially, giant "batteries" that can capture excess renewable energy when production is high and release it back into the grid when demand spikes.

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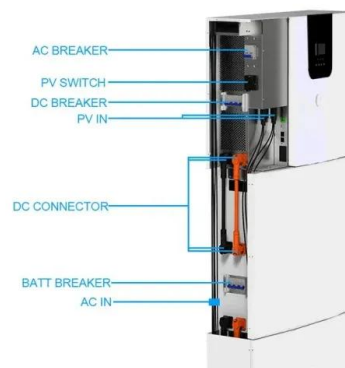
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## Nation to become a global energy storage powerhouse

"The new energy storage industry is poised to leap from a novice to a pioneer by 2027, driven by technological advances and the increased integration of renewable energy generation," he said.



## New Energy Storage Technologies Empower Energy

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Based on a brief analysis of the global and Chinese energy storage markets in terms of size and future development, the publication delves into the relevant business models and cases of new energy storage technologies (including electrochemical) for generators, grids and consumers.

## New energy-storing tech at forefront of nation's transition

China's first megawatt-level iron-chromium flow battery energy storage project, located in North China's Inner Mongolia autonomous region, is currently under construction and about to be put into commercial use, said its operator State

Power Investment Corp.



## CHINA'S ACCELERATING GROWTH IN NEW TYPE ...

In terms of storage types, the dominant advantage of lithium-ion batteries continues to expand, accounting for 97.4% of the new type storage installation. Other types, such as air compression, and redox flow cell, have also achieved some breakthroughs, but their proportions remain low.

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