

## Kongres Container

# New energy storage supporting dual carbon goals



## Overview

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Demand growth is a rising tide that lifts all boats, and it especially lifted renewable ones in 2024. Renewables were already buoyed by record public and private investment in, and demand for, clean energy that set the stage for continued growth in 2024. 1 Utility-scale solar and wind capacity.

China's energy storage system (ESS) industry is accelerating rapidly in 2025, fueled by the nation's soaring renewable energy capacity. This surge is crucial for China to meet its ambitious "carbon peak" and "carbon neutrality" goals, as experts highlight the revolutionary impact of energy storage.

For Nanchong City, this paper analyzes the application strategies of energy storage technologies and their comprehensive benefits, with a focus on the progress of energy storage technologies and their potential applications in the context of the "Dual Carbon" goals. Based on the current status of.

This real-world prototype – complete with photovoltaic roofs and vanadium redox flow batteries – exemplifies how China's dual carbon energy storage initiatives are rewriting the rules of power management. With the 30·60 carbon targets looming, the Middle Kingdom isn't just building infrastructure;. How has China's Dual carbon goal impacted energy storage?

BEIJING, July 1 -- China's dual carbon goal and targeted policies have provided strong tailwinds, enabling the country's energy storage businesses to thrive amid the rapidly evolving market competition.

What are dual-carbon goals?

In this context, dual-carbon goals have been introduced. These goals aim to achieve “zero growth” in carbon emissions, promote economic and societal transformation and upgrading, mitigate climate change, enhance energy efficiency, and foster both economic prosperity and environmental sustainability 7, 8, 9.

Does investment in green innovation and entrepreneurship contribute to a dual-carbon era?

The results indicate that, in the dual-carbon era, investment in green innovation and entrepreneurship plays a significant role. This study enhances the proportion of renewable energy in the market, reduces carbon emissions, and accelerates the transformation of energy demand.

Is new-type energy storage a 'new quality productive force'?

The development of new-type energy storage was first highlighted as a "new quality productive force" in the 2024 Government Work Report. This underscores its strategic importance in building a new-type power system, a key commitment under China's "carbon peak" and "carbon neutrality" pledges.

Why is energy storage important?

Due to the inherent intermittency and variability of new energy sources like solar and wind, energy storage is becoming indispensable for integrating renewables into the grid and ensuring a stable power supply.

What is the value of new-type energy storage?

The ultimate value of new-type energy storage lies in its potential to drive the transformation of the energy system – shifting from a "fossil-fuel-dependent, centralized supply" model to a "renewable energy-dominated, distributed and centralized collaborative" model.

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