

Is China's power storage capacity on the cusp of growth?

[WANG ZHENG/FOR CHINA DAILY]China's power storage capacity is on the cusp of growth,fueled by rapid advances in the renewable energy industry,innovative technologies and ambitious government policies aimed at driving sustainable development,experts said.

Why did China double its energy storage capacity in 2022?

Power lines in Yichun, China. China almost quadrupled its energy storage capacity from new technologies last year, as the nation works to buttress its rapidly expanding but unreliable renewables sector and wean itself off dirty coal. Capacity rose to 31.4 gigawatts, from just 8.7 gigawatts in 2022, the National Energy Administration said Thursday.

What is the demand for energy storage facilities in China?

The rapid growth of renewable energy generation has created a large market demand for energy storage facilities. By the end of the first quarter of 2024,the cumulative installed capacity of new energy-storage projects in China had reached 35.3 million kW.

Why is energy storage important in China?

Developing energy storage is an important step in China's transition from fossil fuels to renewable energy,while mitigating the effect of new energy's randomness,volatility and intermittence on the grid and managing power supply and demand,he said.

What is new energy storage?

New energy storage, or energy storage using new technologies such as lithium-ion batteries, liquid flow batteries, compressed air and mechanical energy, is an important foundation for building a new power system in China, enjoying the advantages of quick response, flexible configuration and short construction periods.

What is the utilization rate of new energy storage in China?

According to Shu Yinbiao,an academician at the Chinese Academy of Engineering,the utilization rate of new energy storage in China is not high,with the average utilization rate indexes for grid-side,user-side,and mandatory allocation of new energy storage projects reaching 38 percent,65 percent and 17 percent,respectively.

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on Promoting Energy Storage Technology and Industrial ... Qiang Wang^{1,2,3} | Zhongfu Tan^{1,3} | Gejirifu De^{1,3} | Lei Pu^{1,3} | Jing Wu^{1,3} This is an open access article under the terms of the ...

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