

# CHANGJI ENERGY STORAGE REQUIREMENTS



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.



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



How much energy storage does China have in 2023? By the end of 2023, China had completed and put into operation a cumulative installed capacity of new type energy storage projects reaching 31.4GW/66.9GWh, with an average storage duration of 2.1 hours. The newly added installed capacity in 2023 was approximately 22.6GW /48.7GWh, which is three times that for 2022 (7.3GW /15.9GWh).



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.

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How big is China's power generation capacity? China's installed power generation capacity surged 14.5 percent year-on-year to 2.99 billion kW by the end of March, with that of solar power soaring 55 percent year-on-year to 660 million kW and wind power rising 21.5 percent year-on-year to about 460 million kW, according to the NEA.



It is understood that this project adopts a supporting energy storage propulsion path, with an energy storage capacity of 125MW/500MWh and an installed capacity of 500MW, including a?



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It is estimated that the electricity shortfall in Northwest China's Xinjiang Uygur autonomous region will exceed 8 million kilowatts by 2030, making new energy storage a necessity to support the operation of the power grid with a?



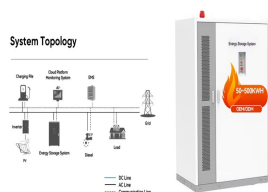
The auxiliary peak-shaving service project of Huadian Changji Thermal Power Plant is the largest peak-shaving energy storage project with the largest installed capacity in China, the first peak a?

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CHANGJI, China, Oct. 12, 2024 /PRNewswire/ a?? The State Grid Changji Electric Power Supply Company is strongly committed to the development of renewable energy. To date, JiMusar a?|



On November 2, the 300,000-kilowatt new energy storage project with a total investment of 2.395 billion yuan by Shouhang Energy Group was started and laid the foundation stone in Changji a?|