

# THIS YEAR S NEW ENERGY STORAGE

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How many new energy storage projects are there? At the beginning of this year, the NEA has released a list of 56 new-type energy storage pilot demonstration projects, including 17 lithium-ion battery projects and 11 compressed air energy storage projects, among others. Some of these projects have been connected to the grid, effectively promoting the application of new technologies, Bian said.



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.



Will China achieve full market-oriented development of new energy storage by 2030? The country has vowed to realize the full market-oriented development of new energy storage by 2030, as part of efforts to boost renewable power consumption while ensuring stable operation of the electric grid system, a statement released by the National Development and Reform Commission and the National Energy Administration said.



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.



What is new-type energy storage? This year, ???new-type energy storage??? has emerged as a buzzword. Unlike traditional energy, new energy sources typically fluctuate with natural conditions. Advanced storage solutions can store excess power during peak generation and release it when needed, enabling greater reliance on renewables as a primary energy source.

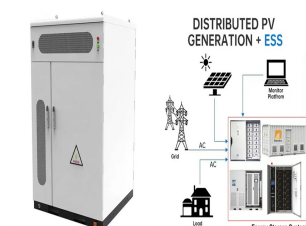
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How many kilowatts are in China's new energy storage projects?  
 [Photo/China Daily]The installed capacity of new energy storage projects that were put into operation during the first half of this year in China has reached 8.63 million kilowatts, equivalent to the total installed capacity of previous years in the country, according to the National Energy Administration (NEA).



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Building on its leadership in electric vehicles, lithium batteries and solar panels, China is now poised to unlock a new economic growth frontier in new-type energy storage. The rapid expansion of clean energy capacity in ???



See more from Canary Media's "Chart of the week" column.. Last year was fantastic for battery storage. This year is poised to be even better. The U.S. is set to plug over 18 gigawatts of new utility-scale energy storage ???



While pumped-hydro storage is currently the mainstream technology, it can't fully meet China's growing demand for energy storage. New energy storage, or energy storage using new technologies, such

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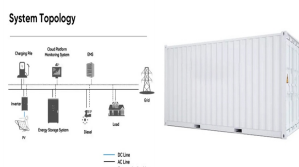
Mechanical energy storage technologies such as megawatt-scale flywheel energy storage will gradually become mature, breakthroughs will be made in long-duration energy storage technologies such as hydrogen storage ???



2 Web of Science,???"",2013???2022?????? ???



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Recognizing the diverse scenarios and needs in power systems, China is encouraging technological innovation in new energy storage, achieving breakthroughs across various technical approaches. At the beginning of 2024, ???

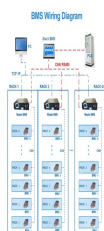


This year's government work report noted the development of new energy storage as one of the measures to promote green and low-carbon development. New energy storage refers to energy-storage technologies other ???

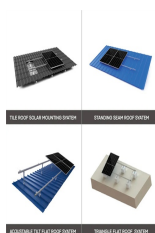


While US installations look poised to break a metaphorical 10GW ceiling this year for the first time, Europe already did in 2023, with 10.1GW of additions across all segments, according to an edition of the European Market ???

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We expect stationary storage project durations to grow as use-cases evolve to deliver more energy, and more homes to add batteries to their new solar installations. EV sales are headed for another record year in 2024 ???



The nation's energy storage capacity further expanded in the first quarter of 2024 amid efforts to advance its green energy transition, with installed new-type energy storage capacity reaching 35.3 gigawatts by end-March, ???



Further, CEA has also projected that by the year 2047, the requirement of energy storage is expected to increase to 2380 GWh (540 GWh from PSP and 1840 GWh from BESS), due to the addition of a larger amount ???



But in reality, our latest estimates indicate that 2024 was a pretty strong year for clean energy deployment. Solar PV installations were up 35% year-on-year, wind was up 5%, energy storage installations rose 76% (in ???