

# GLOBAL ENERGY STORAGE CAPACITY RANKING



With the US dramatically ramping up energy storage to achieve its ambitious green energy goals, S& P Global Market Intelligence projects the country will grow its utility-scale battery capacity tenfold



Global battery energy storage systems, or BESS, rose 40 GW in 2023, nearly doubling the total increase in capacity observed in the previous year, according to a special report published by the International Energy Agency on April 25.



Bali, November 12, 2022 ??? China continues to dominate BloombergNEF's (BNEF) global lithium-ion battery supply chain ranking, for the third time in a row, for both 2022 and its projection for 2027, thanks to continued support for the electric vehicle demand and raw materials investments. China currently hosts 75% of all battery cell



Key figures and rankings about companies and products Forecast energy storage capacity in the EU 2022-2030, by status Premium Statistic Cumulative global energy storage deployment 2022-2031;



In 2023, global ESS LFP cell production reached 190GWh, a YoY increase of 48% compared to 2022; global ESS LFP cell shipment volume reached 195GWh, a YoY increase of 49% compared to 2022. Overall, many new players entered the energy storage market in 2023, but the market competition pattern of the leading players has not changed significantly.

# GLOBAL ENERGY STORAGE CAPACITY RANKING

APPLICATION SCENARIOS



Unique energy insight, spanning the renewables, energy and natural resources supply chain, to support strategic decision-making. Podcasts. Weekly discussions on the latest news and trends in energy, cleantech and renewables. The Inside Track. Our weekly round up of the latest opinions, new, industry analysis from our global analysts.



Key figures and rankings about companies and products Global share of energy storage capacity by region 2000-2015; U.S. energy storage capacity addition revised outlook due to Covid-19 2020;

System Topology



- PRESS RELEASE - Fluence's software capabilities recognized as key driver of market leadership. ARLINGTON, Va. ??? January 27, 2022 ??? Fluence (NASDAQ: FLNC) has been named the top global provider of battery-based energy storage systems according to the 2021 Battery Energy Storage System Integrator Report published by IHS Markit. The ranking is ???



Lithium-ion battery manufacturing capacity, 2022-2030 - Chart and data by the International Energy Agency. Utilisation and Storage. Decarbonisation Enablers. Buildings; Energy Efficiency and Demand; Carbon Capture, Utilisation and Storage Use, download and buy global energy data. Data explorers. Understand and manipulate data with easy



The World Energy Outlook 2023 provides in-depth analysis and strategic insights into every aspect of the global energy system. Against a backdrop of geopolitical tensions and fragile energy markets, this year's report explores how structural shifts in economies and in energy use are shifting the way that the world meets rising demand for energy.

# GLOBAL ENERGY STORAGE CAPACITY RANKING



U.S. energy storage capacity per customer by select utility 2018; Ranking of energy companies in Finland 2018, by employees U.S. small-scale energy storage capacity by state 2018; Global



Telsa has overtaken Sungrow as lead producer in the battery energy storage system (BESS) integrator market with a 15% market share in 2023, according to Wood Mackenzie's "Global battery energy storage system integrator ranking 2024" report.



Wood Mackenzie's latest report shows global energy storage capacity could grow at a compound annual growth rate (CAGR) of 31%, recording 741 gigawatt-hours (GWh) of cumulative capacity by 2030.



Moss Landing Energy Storage 3 is now the second largest battery storage facility in operation across the US. The largest is Florida Power and Light's 409-MW Manatee Energy Storage Center, which started operations in Q4 2021. NextEra Energy Resources continues to have the largest operating battery storage capacity in the US with 1.834 GW

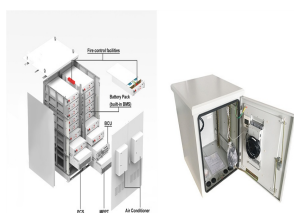


In 2021, Tesla accounted for a 5.3 percent share of the global energy storage integration system market, which combines the components of the energy storage technologies into a final system.

# GLOBAL ENERGY STORAGE CAPACITY RANKING



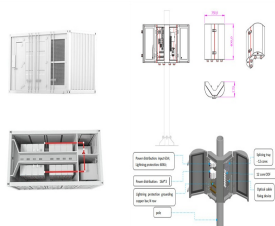
Global energy storage's record additions in 2022 will be followed by a 23% compound annual growth rate to 2030, with annual additions reaching 88GW/278GWh, or 5.3 times expected 2022 gigawatt installations. The Americas region represents 21% of annual energy storage capacity on a gigawatt basis by 2030. The US is by far the largest market



The global energy storage system market is forecast to grow steadily between 2024 and 2031 with a compound annual growth rate of approximately nine percent. Key figures and rankings about



The size of the global energy storage system market is forecast to surpass 500 billion U.S. Key figures and rankings about companies and products Energy storage capacity additions in



Global energy storage market .. 6 Figure 2. Projected global annual transportation energy storage deployments 7 Figure 3. Global Projected lead???acid capacity increase from vehicle sales by region based on BNEF 22 Figure 24. Projected lead???acid capacity increase from vehicle sales by class 22

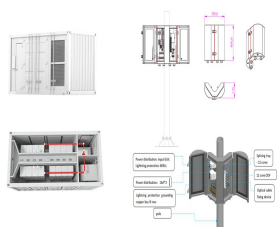


Key figures and rankings about companies and products Hydropower and renewable energy capacity worldwide 2008-2023; Global renewable energy consumption 2000-2023 Global pumped storage

# GLOBAL ENERGY STORAGE CAPACITY RANKING



Battery storage Pumped storage Global grid-connected electricity storage capacity (GW) Energy storage follows wind and solar into the market Data compiled May 2023. Source: S& P Global Commodity Insights. 4x 30x



Key figures and rankings about companies and products The global energy storage capacity is projected to reach 650 gigawatts in 2030. Energy storage capacity additions in batteries



The global battery energy storage market size was valued at \$18.20 billion in 2023 & is projected to grow from \$25.02 billion in 2024 to \$114.05 billion by 2032. completed the construction of a battery-based energy storage facility in Dunkirk, France. The facility has a capacity of 61 MW and a total storage capacity of 61 megawatt-hours



Global installed base of battery-based energy storage projects 2022, by main country. Published by Statista Research Department, Jun 28, 2024. The United States was the leading country for