Global energy storage installed capacity in 2025

As a result, the global energy storage markets have experienced rapid growth, which is anticipated to continue with an estimated 387GW of new energy storage capacity expected to be added globally from 2022 to 2030.1 That would represent a 15-times increase in global energy storage capacity, compared with the end of 2021.2

In China"s 14th Five Year Plan (14FYP), it set goals to reduce the cost of BESS by 30% by 2025 and have 100GW of storage capacity by 2030. Additionally, most provinces have mandated that solar and wind power projects include energy storage installations of 10%-20% of the projects" over total capacity.

Onshore wind: Onshore wind (on-grid) electricity installed capacity, measured in megawatts. Pumped storage: Pumped storage (on-grid) electricity installed capacity, measured in megawatts. Renewable municipal waste: Renewable municipal waste (on-grid) electricity installed capacity, measured in megawatts.

Global installed storage capacity is forecast to expand by 56% in the next five years to reach over 270 GW by 2026. The main driver is the increasing need for system flexibility and storage around the world to fully utilise and integrate larger shares of variable renewable energy (VRE) into power systems.

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Analysts at S& P Global Commodity Insights forecast global battery capacity in the power sector to rise above 600 GW in 2030, according to the Clean Energy Technology database. Longer duration of those batteries would further boost the storage capacity of batteries.

From 2023 to 2025, they expect to add another 20.8 GW of battery storage capacity. The remarkable growth in U.S. battery storage capacity is outpacing even the early growth of the country"s utility-scale solar capacity. U.S. solar capacity began expanding in 2010 and grew from less than 1.0 GW in 2010 to 13.7 GW in 2015.

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