Solar energy storage service project

What is new energy storage?
New energy storage is a key technology in building a new energy system and a modern power system,and an essential driver of global green transformation. From being written into China's 2024 Government Work Report to continuous new project commissioning in 2025,the industry's growth has clearly accelerated.

Why is energy storage important?
During the peak summer months of July and August - when electricity demand repeatedly surpassed 1 trillion kWh - new energy storage played a vital role. In the State Grid operating area, the maximum dispatchable storage power exceeded 64 GW, with real-time discharge peaking at 44 GW, providing robust support for power supply security.

What technologies are used in energy storage?
Several grid-forming energy storage projects have also been implemented,and innovative technologies such as gravity storage and CO2 compression storageare being rapidly deployed. Lithium-ion storage continues to evolve toward high-capacity cells and large-scale integration.

How does the energy storage system work?
Each energy storage unit is connected to the 35kV distribution unit of the booster station through a 35kV collector line and then boosted to 220kV via a 120MVA (220/35kV) transformer. The project is equipped with an energy management system (EMS) to receive grid dispatching commands and manage the charge and discharge of the energy storage system.

What is the future of energy storage?
Flow battery installations have reached 1.15 GW, about 30 times higher than in 2020, while compressed-air storage achieved a "zero-to-one" breakthrough during the 14th Five-Year Plan, now reaching 830 MW. Solid-state and hydrogen storage technologies are also progressing rapidly, marking the rise of a diversified storage landscape.

How many energy storage power stations are in the State Grid?
By June,194new energy storage power stations (totaling 20.59 GW) in the State Grid area had participated in market transactions,accounting for 27% of total installations - mainly in peak regulation - showing steady growth in both scale and impact.

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