

Future grid-side energy storage

The Energy Storage Report 2026 out now: grid-forming, fire safety, bankability and more The 2026 edition of The Energy Storage Report is out now and available to download, charting the key trends, ...

Global demand for energy storage is surging. Lithium-ion leads today, but new contenders like sodium-ion, flow, and gravity systems are shaping the future grid.

This Review discusses the application and development of grid-scale battery energy-storage technologies.

In 2025, some 80 gigawatts (gw) of new grid-scale energy storage will be added globally, an eight-fold increase from 2021. Grid-scale energy storage is on the rise thanks to four potent...

In order to achieve grid-scale storage technologies, the future of energy storage will require improvements in materials, recycling, deployment, and policy. These innovations will be ...

By advancing AI optimisation, fostering strategic partnerships, and participating in large-scale projects like the Big Rock battery, GridBeyond illustrates how technology can shape the future ...

Battery storage could optimize existing grid infrastructure to meet growing demand, place downward pressure on prices and help accelerate the energy transition.

benefits of GFM BESS if more widely deployed in a typical interconnected bulk power system. According to the study summarized here, the widespread adoption of GFM BESS would bring signific.

Hybrid energy storage systems (HESSs) address these challenges by leveraging the complementary advantages of different ESSs, thereby improving both energy- and power-oriented ...

The residential energy storage sector added 3.1 GWh in 2025, marking a 51% year over year increase. Expansion of virtual power plant programs in states like Massachusetts, Texas, ...



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