



# Energy storage is the future of the grid

This report is the final in NREL's Storage Futures Study, a multiyear research project that explored the role and impact of energy storage in the evolution and operation of the U.S. power sector.

Explore the future of energy storage technologies beyond lithium-ion. Discover how new battery and storage tech are shaping a clean, renewable energy grid in 2026.

How intelligent management is shaping the future of energy storage revenues Battery Energy Storage Systems (BESS) have moved from emerging technology to critical grid ...

In a high renewables scenario, energy storage grows with solar. US companies have built an early lead in electrochemical storage--but we lag East Asia in research and IP. Our long-term advantage depends ...

MITEI's three-year Future of Energy Storage study explored the role that energy storage can play in fighting climate change and in the global adoption of clean energy grids.

Energy storage will likely play a critical role in a low-carbon, flexible, and resilient future grid, the Storage Futures Study (SFS) concludes. The National Renewable Energy Laboratory ...

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 ...

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.

Storage Enables Deep Decarbonization of Electricity Systems Recognize Tradeoffs Between "Zero" and "Net-Zero" Emissions Invest in Analytical Resources and Regulatory Agency Staff Long-Duration Storage Needs Federal Support Reward Consumers For More Flexible Electricity Use Energy storage is a potential substitute for, or complement to, almost every aspect of a power system, including generation, transmission, and demand flexibility. Storage should be co-optimized with clean generation, transmission systems, and strategies to reward consumers for making their electricity use more flexible. See more on energy.mit.edu. Department of Energy [PDF] Modeling Energy Storage's Role in the Power System of the Future In a high renewables scenario, energy storage grows with solar. US companies have built an early lead in electrochemical storage--but we lag East Asia in research and IP. Our long-term advantage depends ...

Global battery storage capacity surpasses hydropower, driven by renewables growth, falling costs, and rising demand for grid flexibility worldwide.



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Together, solar and battery storage account for 81% of the expected total capacity additions, with solar making up over 50% of the increase. Solar. In 2024, generators added a record ...

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