

# The role of new energy storage

Why is energy storage important?

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.

What is the future of energy storage?

Storage enables electricity systems to remain in balance despite variations in wind and solar availability, allowing for cost-effective deep decarbonization while maintaining reliability. The Future of Energy Storage report is an essential analysis of this key component in decarbonizing our energy infrastructure and combating climate change.

How do energy storage technologies affect the development of energy systems?

They also intend to effect the potential advancements in storage of energy by advancing energy sources. Renewable energy integration and decarbonization of world energy systems are made possible by the use of energy storage technologies.

Do energy storage technologies provide flexibility in energy systems with renewable sources?

Storage technologies are a promising option to provide the power system with the flexibility required when intermittent renewables are present in the electricity generation mix. This paper focuses on the role of electricity storage in energy systems with high shares of renewable sources.

Why do energy systems need more storage facilities?

Future energy systems require more storage facilities to balance the higher share of intermittent renewables in the upcoming power generation mix (Benato and Stoppato, 2018), especially as the demand for electric power could push capacity to 7200 GW by 2040 (International Energy Agency, 2014).

How does the energy storage model work?

The model optimizes the power and energy capacities of the energy storage technology in question and power system operations, including renewable curtailment and the operation of generators and energy storage.

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