

Entering a new era of solar-wind-storage generators

In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility-scale solar ...

Dozens of large-scale solar, wind, and storage projects will come online worldwide in 2025, representing several gigawatts of new capacity.

This study investigates control and energy management strategies for hybrid renewable energy systems combining wind and solar power with battery storage.

This article analyzes whether the energy storage industry has the potential to replicate the rapid growth of solar and wind power from four perspectives: industry evolution, policy drivers, application ...

Solar, wind, and batteries are set to supply virtually all net new US generating capacity in 2026, according to the latest EIA data.

When the sun doesn't shine and the wind doesn't blow, humanity still needs power. Researchers are designing new technologies, from reinvented batteries to compressed air and spinning wheels, to keep ...

A decade ago, large-scale battery storage was considered the mythical Holy Grail to solving renewable energy's intermittency woes with sunshine and wind. The early pilot projects remained in...

Driven by compelling economics and intensifying decarbonization commitments, these renewables have transformed from supplemental sources into the backbone of new electricity systems.

Renewable Energy Generation and Storage Models Renewable energy generation and storage models enable researchers to study the impact of integrating large-scale renewable energy resources into the electric power ...

As current impacts and growing threats of climate change become more visible and the world accelerates efforts to adopt new clean-energy technology, electricity generation from solar and wind is playing an increasing ...

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