



# Battery energy storage field is expected to





## Overview

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8%, the global battery energy storage system market is projected to grow from USD 50. We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U. This amount represents an almost 30% increase from 2024 when 48.6 GW of capacity was installed, the largest. Battery storage in the power sector was the fastest growing energy technology in 2023 that was commercially available, with deployment more than doubling year-on-year. Strong growth occurred for utility-scale battery projects, behind-the-meter batteries, mini-grids and solar home systems for. Energy storage is integral to achieving electric system resilience and reducing net greenhouse gases by 45% before 2030 compared to 2010 levels, as called for in the Paris Agreement. 02 billion by 2029, growing at a CAGR of 26.



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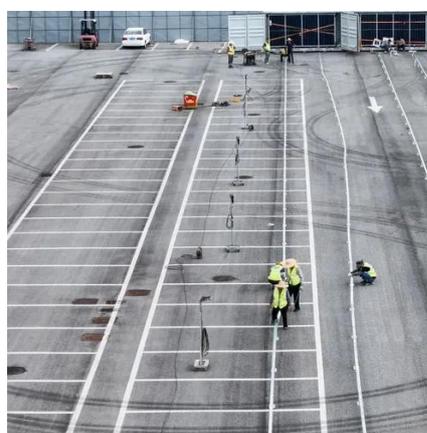


### US Battery Energy Storage System Market: Key Drivers and Trends

According to data from the Energy Information Administration (EIA) released in January 2024, US energy storage system deployment is expected to nearly double in 2024, with battery ...

### [Future of Battery Energy Storage Systems \(BESS\) U.S. Report](#)

Battery energy storage system (BESS) deployment in the United States is accelerating as rising power demand, including from data centres, drives the need for flexible capacity and grid support.



### [Battery Energy Storage System Market Size & Forecast ...](#)

The Battery Energy Storage System (BESS) Market, valued at USD 50.81B in 2025, is projected to reach USD 105.96B by 2030, growing at a 15.8% CAGR.

## Energy Storage Outlook

Global installed energy storage is on a steep upward trajectory. From just under 0.5 terawatts (TW) in 2024, total capacity is expected to rise ninefold to over 4 TW by 2040, driven by ...



## Solar, battery storage to lead new U.S. generating capacity additions

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 ...



## [Global Energy Storage Growth Upheld by New Markets](#)

The global energy storage market is poised to hit new heights yet again in 2025. Despite policy changes and uncertainty in the world's two largest markets, the US and China, the sector ...



## Executive summary - Batteries and Secure Energy Transitions - ...

Executive summary Batteries are an essential part of the global energy system today and the fastest growing energy technology on the market Battery storage in the power sector was the fastest ...



## The Future of Energy Storage: Five



## Key Insights on Battery Innovation

Breakthroughs in battery technology are transforming the global energy landscape, fueling the transition to clean energy and reshaping industries from transportation to utilities.

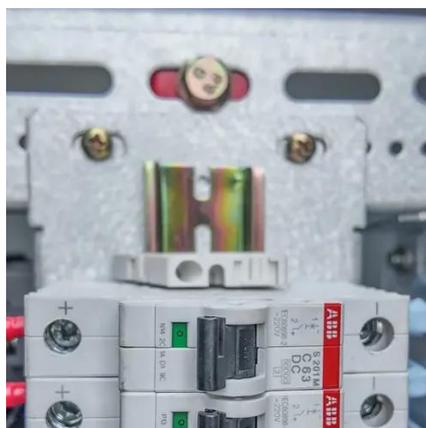


## Battery Energy Storage Roadmap

This EPRI Battery Energy Storage Roadmap charts a path for advancing deployment of safe, reliable, affordable, and clean battery energy storage systems (BESS) that also cultivate equity, ...

## Advancing energy storage: The future trajectory of lithium-ion battery

Solid-state batteries stand at the forefront of energy storage, promising heightened safety, increased energy density, and extended longevity compared to conventional lithium-ion batteries.





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