

United States Rechargeable Battery - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 95 pages | Mordor Intelligence

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Report description:

The United States Rechargeable Battery Market size is estimated at USD 18.55 billion in 2025, and is expected to reach USD 33.96 billion by 2030, at a CAGR of 12.85% during the forecast period (2025-2030).

Key Highlights

- Over the medium term, factors such as increasing demand for electric vehicles and growing sales of consumer electronics are expected to be among the most significant drivers for the United States rechargeable battery market during the forecast period.
- Conversely, the United States faces significant supply chain constraints in procuring batteries, posing a potential threat to its rechargeable battery market during the forecast period.
- However, ongoing advancements in energy density, charging cycles, and energy retention have resulted in more efficient rechargeable batteries, paving the way for numerous future opportunities in the market.

United States Rechargeable Battery Market Trends

Lithium-Ion Batteries Expected to Witness Growth

- Lithium-ion batteries are poised for substantial growth in the market under consideration. Their rising popularity, especially when compared to other battery types, can be attributed to their favorable capacity-to-weight ratio. Additional factors fueling their adoption include superior performance (notably, a long lifespan and minimal maintenance), an extended shelf life, and decreasing prices. While lithium-ion batteries typically command a higher price than their counterparts, their advantages are

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driving demand.

- Consumer electronics are increasingly turning to lithium-ion batteries. This sector encompasses smartphones, laptops, tablets, and wearables. These devices demand lightweight components, efficient charging cycles, and prolonged battery life, making lithium-ion batteries the preferred choice. As the appetite for advanced electronics grows, so too will the demand for lithium-ion batteries, propelling market expansion.
- Moreover, the global shift towards renewable energy sources, like solar and wind, is amplifying the demand for energy storage solutions. Lithium-ion batteries excel in this role, adeptly storing excess energy from renewables and releasing it as needed. This capability not only bolsters grid stability but also curtails dependence on fossil fuels.
- In recent years, declining prices of lithium-ion batteries and cell packs have made them increasingly appealing to end-user industries. Following minor price increases in 2022, a downward trend resumed in 2023. Notably, the cost of lithium-ion battery packs plummeted by 14%, hitting a historic low of USD 139/kWh. This price drop is largely due to reductions in raw material and component costs, alongside expanded production capacities throughout the battery value chain.
- Ongoing research and development in lithium-ion technology are yielding enhancements in energy density, safety, and cost-effectiveness. Innovations in battery chemistries, such as lithium-nickel-manganese-cobalt-oxide (NMC) and lithium-iron-phosphate (LFP), are resulting in extended battery life, increased energy storage, and enhanced thermal stability, broadening their appeal across various applications.
- For example, in March 2023, the U.S. Department of Energy unveiled a groundbreaking lithium battery technology boasting superior energy density and efficiency. These advanced batteries are touted for potential use in power cars, domestic airplanes, and long-haul trucks. Furthermore, the battery's electrochemical chemistry enhances safety, making them suitable for industries with demanding operational conditions and temperature variations.
- Given these insights, lithium-ion batteries are set to experience notable growth in the coming years.

Growing Demand for Electric Vehicles to Drive The Market

- The United States stands as a key player in the global automobile market, leading not only in automobile production but also ranking among the top markets for rechargeable batteries. With rising electric vehicle (EV) sales, driven by escalating fossil fuel prices, the United States automobile industry is set to be dominated by EVs in the coming years.
- In a bid to boost EV adoption, the United States has set a 2035 deadline to halt sales of internal combustion engine (ICE) vehicles. Additionally, the United States has committed to achieving economy-wide net-zero emissions in the coming decades. Such forward-looking policies have spurred EV manufacturers to ramp up their R&D investments.
- These initiatives have catalyzed a swift embrace of electric vehicles across the nation. Data from the International Energy Agency highlights a 37.5% surge in United States electric vehicle sales from 2022 to 2023. This comes on the heels of a remarkable 71.6% annual average growth rate from 2019 to 2023, underscoring the escalating momentum towards EVs.
- As EV demand surges, so too does the need for batteries, prompting a proliferation of battery production facilities and heightened R&D activities in the United States rechargeable battery sector.
- For example, a January 2024 analysis by the Environmental Defense Fund revealed that the United States is set to unveil over 1,000 gigawatt hours per year of electric vehicle battery production capacity by 2028. This capacity, sufficient to power 10 million electric cars, exceeds the sales projections for 2030 set by the United States Environmental Protection Agency.
- Given these dynamics, it's clear that electric vehicle sales will be a primary driver of the rechargeable battery market in the United States in the years to come.

United States Rechargeable Battery Industry Overview

The United States Rechargeable Battery Market is fragmented. Some of the key players in this market (in no particular order) are

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- The market estimate (ME) sheet in Excel format
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