

Battery industry development trend

Why is global demand for batteries increasing?

This work is independent, reflects the views of the authors, and has not been commissioned by any business, government, or other institution. Global demand for batteries is increasing, driven largely by the imperative to reduce climate change through electrification of mobility and the broader energy transition.

How is the EV and battery industry evolving?

Jose noted that not only the EV and battery industries but also the automotive industry as a whole is rapidly evolving: "Several notable trends are shaping the development of electric vehicles (EVs) and self-driving vehicles (SDVs), as well as the underlying technologies and manufacturing processes." For example:

What is the global battery market size?

The global battery market size was estimated at USD 134,622.4 million in 2024 and is projected to grow at a CAGR of 16.4% from 2025 to 2030. The increasing adoption of electric vehicles (EVs) is a significant factor driving the growth of the market.

Why is the North America battery market growing?

The North America battery market is experiencing strong growth, primarily due to its robust ecosystem of technological innovation, substantial investments in electric vehicle (EV) manufacturing, and supportive government policies.

What is the global battery market based on end use?

Based on end use, the market is segmented into automobiles, consumer electronics, grid-scale energy storage, telecom, power tools, military & defense, aerospace, and others. The automobile segment has emerged as the largest end use in the global battery industry, capturing over 31.0% of the market share in 2024.

Why did battery demand increase in 2023 compared to 2022?

In the rest of the world, battery demand growth jumped to more than 70% in 2023 compared to 2022, as a result of increasing EV sales. In China, PHEVs accounted for about one-third of total electric car sales in 2023 and 18% of battery demand, up from one-quarter of total sales in 2022 and 17% of sales in 2021.

Electric vehicle (EV) battery technology is at the forefront of the shift towards sustainable transportation. However, maximising the environmental and economic benefits of electric vehicles depends on advances in battery life cycle management. This comprehensive review analyses trends, techniques, and challenges across EV battery development, capacity ...

As 2023 closes, the EV and battery industries seem to be in a slowdown as manufacturers recalibrate the speed and intensity of their electrification efforts and reassess how fast their customers want them to move. It's a sobering note on which to enter a new year--but it's not the whole song, not by a long shot. 2023 saw several

watershed events that signal ...

This also affects trends in different regions, given that 2/3Ws are significantly more important in emerging economies than in developed economies. As EVs increasingly reach new markets, battery demand outside of today's major markets is set to increase. In the STEPS, China, Europe and the United States account for just under 85% of the market in 2030 and just over 80% in ...

While the average battery size for battery electric cars in the United States only grew by about 7% in 2022, the average battery electric car battery size remains about 40% higher than the global average, due in part to the higher share of ...

Innovative battery solutions address issues regarding energy density, battery life, and safety. This report explores key market data as well as areas of innovation and their implications for battery companies worldwide, as well as the global transition to renewable energy.

From the increasing demand for battery metals to the strategic localization of battery production, IEA's report illuminates challenges and opportunities shaping the future of sustainable mobility. The industry can navigate toward a greener, more resilient future by leveraging innovative technologies, fostering international collaborations ...

Battery Market Size, Share & Trends Analysis Report By Material (Lead Acid, Lithium Ion, Nickel-based, Sodium-ion, Flow Battery), End-use (Aerospace, Automobile, Consumer Electronics, Telecom), By Application, By Type, By Region, And Segment Forecasts, 2025 - 2030

The growth in EV sales is pushing up demand for batteries, continuing the upward trend of recent years. Demand for EV batteries reached more than 750 GWh in 2023, up 40% relative to 2022, though the annual growth rate slowed slightly compared to in 2021-2022. Electric cars account ...

Batteries are gaining traction in the clean electrification pathway to decarbonization. Their global manufacturing capacity was forecast to grow from two to seven terawatt-hours from 2023 to...

KEY INDUSTRY DEVELOPMENTS: January 2022 - Recyclus opened the first lead acid battery recycling plant in England. The Tipton facility is expected to increase Recyclus' production capacity for recycling lead acid batteries from an estimated 16,000 tons in the first full year of production to approximately 80,000 tons by 2027. June 2021 - EnerSys announced ...

Battery Industry Strategy - Interim summary - 22 April 2022 Ministry of Economy, Trade and Industry . Importance of batteries ?Batteries are key to achieving carbon neutrality in 2050. In the electrification of vehicles and other forms of mobility, batteries are the most important technology. ?In addition, in order to make renewable energy the main source of power, it is essential to ...

