

U.S. Battery Electric Vehicle Market Size, Share & Trends Analysis Report By Vehicle Type (Scooters, Motorcycles, Three-Wheelers, Passenger Cars, Buses, Trucks), By Vehicle Speed, By Vehicle Range, By Battery Capacity, By End Use, And Segment Forecasts, 2026 - 2033

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Abstracts

The U.S. battery electric vehicle market size was valued at USD 102.56 billion in 2025 and is projected to grow from USD 145.29 billion in 2026 to USD 715.50 billion by 2033, at a CAGR of 25.6% from 2026 to 2033. Supportive federal policies and government incentives are driving the growth of the U.S. battery electric vehicle industry. Tax credits, clean energy initiatives, and infrastructure funding programs are encouraging consumers and automakers to accelerate the adoption of battery electric vehicles.

The market growth can be attributed to the expansion of EV charging infrastructure. Increasing development of public and private charging networks is improving charging accessibility and convenience, thereby supporting the wider adoption of battery electric vehicles across the U.S. For instance, as of February 2025, the U.S. had over 210,000 publicly available EV chargers across more than 76,000 charging stations, with nearly 1,000 new public chargers being installed every week through federal funding, tax incentives, state support, and private investments. Thus, the continuous expansion of charging infrastructure is expected to play a key role in supporting the long-term growth and widespread adoption of battery electric vehicles across the U.S.

Technological innovation plays a critical role in driving the future growth of the U.S. battery electric vehicle market. Continuous advancements in lithium-ion battery technology, fast-charging systems, and energy management solutions are expected to

improve vehicle performance, extend driving range, and reduce charging time. For instance, in May 2025, General Motors and LG Energy Solution announced plans to commercialize lithium manganese-rich (LMR) prismatic battery cells for future GM electric trucks and full-size SUVs in the U.S. Through their Ultium Cells joint venture, the companies plan to begin commercial production of LMR prismatic cells in the U.S. by 2028, with pre-production expected to start in late 2027. Such advancements are anticipated to improve driving range, lower battery costs, and support the long-term adoption of battery electric vehicles across the country.

Rising investments in domestic battery manufacturing and EV production facilities are driving the market growth. Various companies are increasingly investing in advanced battery technologies, localized EV production, and supply chain expansion to strengthen domestic manufacturing capabilities and meet the growing demand for electric vehicles. For instance, in August 2025, Ford Motor Company announced an investment of nearly USD 5 billion across its Louisville Assembly Plant and BlueOval Battery Park in Michigan to support a new EV platform, electric pickup production, and lithium iron phosphate (LFP) battery manufacturing in the U.S. The investment is expected to support the development of future affordable battery-electric vehicles and strengthen the country's EV supply chain.

The regulatory framework plays a significant role in supporting the growth of the U.S. battery electric vehicle industry. The U.S. government is implementing stricter vehicle emissions standards, fuel-economy regulations, and clean transportation policies to reduce greenhouse gas emissions and accelerate the transition toward electric mobility. For instance, in 2025, the U.S. Environmental Protection Agency (EPA) continued the implementation of its multi-pollutant emissions standards for light-duty and medium-duty vehicles covering model years 2027-2032, targeting nearly a 50% reduction in light-duty vehicle CO₂ emissions compared to 2026 levels. These regulations are encouraging automakers to significantly increase the production of zero-emission vehicles, including battery electric vehicles.

The market faces several challenges, one of the major restraints being the high cost of battery electric vehicles. Despite ongoing price reductions and competitive pricing strategies, battery electric vehicles generally remain more expensive than traditional internal combustion engine vehicles, with batteries accounting for nearly 25%-50% of the total vehicle cost. In addition, the high cost of critical raw materials such as lithium, cobalt, and nickel further increases battery production expenses, thereby impacting vehicle affordability and limiting adoption among price-sensitive consumers.

U.S. Battery Electric Vehicle Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. battery electric vehicle market report based on vehicle type, vehicle speed, vehicle range, battery capacity, and end use:

Vehicle Type Outlook (Revenue, USD Billion, 2021 - 2033)

Scooters

Motorcycles

Three-Wheelers

Passenger Cars

Buses

Trucks

Vehicle Speed Outlook (Revenue, USD Billion, 2021 - 2033)

Less Than 100 MPH

100MPH to 125MPH

Above 125 MPH

Vehicle Range Outlook (Revenue, USD Billion, 2021 - 2033)

Below 150 km

150–300 km

Above 300 km

Battery Capacity Outlook (Revenue, USD Billion, 2021 - 2033)

50 kWh

50–100 kWh

>100 kWh

End Use Outlook (Revenue, USD Billion, 2021 - 2033)

Personal

Commercial

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation and Scope
- 1.2. Research Methodology
 - 1.2.1. Information Procurement
- 1.3. Information or Data Analysis
- 1.4. Methodology
- 1.5. Research Scope and Assumptions
- 1.6. Market Formulation & Validation
- 1.7. Country-Based Segment Share Calculation
- 1.8. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
- 2.3. Competitive Insights

CHAPTER 3. U.S. BATTERY ELECTRIC VEHICLE MARKET VARIABLES, TRENDS, & SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Market Dynamics
 - 3.2.1. Market Driver Analysis
 - 3.2.2. Market Restraint Analysis
 - 3.2.3. Industry Challenge
- 3.3. U.S. Battery Electric Vehicle Market Analysis Tools
 - 3.3.1. Industry Analysis - Porter's
 - 3.3.1.1. Bargaining power of the suppliers
 - 3.3.1.2. Bargaining power of the buyers
 - 3.3.1.3. Threats of substitution
 - 3.3.1.4. Threats from new entrants
 - 3.3.1.5. Competitive rivalry
 - 3.3.2. PESTEL Analysis
 - 3.3.2.1. Political landscape
 - 3.3.2.2. Economic landscape
 - 3.3.2.3. Social landscape

- 3.3.2.4. Technological landscape
- 3.3.2.5. Environmental landscape
- 3.3.2.6. Legal landscape

CHAPTER 4. BATTERY ELECTRIC VEHICLE MARKET: VEHICLE TYPE ESTIMATES & TREND ANALYSIS

- 4.1. Segment Dashboard
- 4.2. Battery Electric Vehicle Market: Vehicle Type Movement Analysis, 2025 & 2033 (USD Billion)
- 4.3. Scooters
 - 4.3.1. Scooters Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)
- 4.4. Motorcycles
 - 4.4.1. Motorcycles Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)
- 4.5. Three-Wheelers
 - 4.5.1. Three-Wheelers Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)
- 4.6. Passenger Cars
 - 4.6.1. Passenger Cars Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)
- 4.7. Buses
 - 4.7.1. Buses Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)
- 4.8. Trucks
 - 4.8.1. Trucks Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

CHAPTER 5. BATTERY ELECTRIC VEHICLE MARKET: VEHICLE SPEED ESTIMATES & TREND ANALYSIS

- 5.1. Segment Dashboard
- 5.2. Battery Electric Vehicle Market: Vehicle Speed Movement Analysis, 2025 & 2033 (USD Billion)
- 5.3. Less Than 100MPH
 - 5.3.1. Less Than 100MPH Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)
- 5.4. 100MPH to 125MPH
 - 5.4.1. 100MPH to 125MPH Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)
- 5.5. Above 125MPH

5.5.1. Above 125MPH Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

CHAPTER 6. BATTERY ELECTRIC VEHICLE MARKET: VEHICLE RANGE ESTIMATES & TREND ANALYSIS

6.1. Segment Dashboard

6.2. Battery Electric Vehicle Market: Vehicle Range Movement Analysis, 2025 & 2033 (USD Billion)

6.3. Below 150 km

6.3.1. Below 150 km Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.4. 150-300 km

6.4.1. 150-300 km Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

6.5. Above 300 km

6.5.1. Above 300 km Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

CHAPTER 7. BATTERY ELECTRIC VEHICLE MARKET: BATTERY CAPACITY ESTIMATES & TREND ANALYSIS

7.1. Segment Dashboard

7.2. Battery Electric Vehicle Market: Battery Capacity Movement Analysis, 2025 & 2033 (USD Billion)

7.3. 50 kWh

7.3.1. 50 kWh Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

7.4. 50-100 kWh

7.4.1. 50-100 kWh Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

7.5. >100 kWh

7.5.1. >100 kWh Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

CHAPTER 8. BATTERY ELECTRIC VEHICLE MARKET: END USE ESTIMATES & TREND ANALYSIS

8.1. Segment Dashboard

8.2. Battery Electric Vehicle Market: End Use Movement Analysis, 2025 & 2033 (USD Billion)

8.3. Personal

8.3.1. Personal Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

8.4. Commercial

8.4.1. Commercial Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Billion)

CHAPTER 9. COMPETITIVE LANDSCAPE

9.1. Company Categorization

9.2. Company Market Positioning

9.3. Company Heat Map Analysis

9.4. Company Profiles/Listing

9.4.1. Tesla, Inc.

9.4.1.1. Participant's Overview

9.4.1.2. Financial Performance

9.4.1.3. Product Benchmarking

9.4.1.4. Strategic Initiatives

9.4.2. General Motors Company

9.4.2.1. Participant's Overview

9.4.2.2. Financial Performance

9.4.2.3. Product Benchmarking

9.4.2.4. Strategic Initiatives

9.4.3. Ford Motor Company

9.4.3.1. Participant's Overview

9.4.3.2. Financial Performance

9.4.3.3. Product Benchmarking

9.4.3.4. Strategic Initiatives

9.4.4. Rivian Automotive, Inc.

9.4.4.1. Participant's Overview

9.4.4.2. Financial Performance

9.4.4.3. Product Benchmarking

9.4.4.4. Strategic Initiatives

9.4.5. Lucid Group, Inc.

9.4.5.1. Participant's Overview

9.4.5.2. Financial Performance

9.4.5.3. Product Benchmarking

9.4.5.4. Strategic Initiatives

9.4.6. Hyundai Motor Company

9.4.6.1. Participant's Overview

- 9.4.6.2. Financial Performance
- 9.4.6.3. Product Benchmarking
- 9.4.6.4. Strategic Initiatives
- 9.4.7. Volkswagen Group of America
 - 9.4.7.1. Participant's Overview
 - 9.4.7.2. Financial Performance
 - 9.4.7.3. Product Benchmarking
 - 9.4.7.4. Strategic Initiatives
- 9.4.8. BMW Group
 - 9.4.8.1. Participant's Overview
 - 9.4.8.2. Financial Performance
 - 9.4.8.3. Product Benchmarking
 - 9.4.8.4. Strategic Initiatives
- 9.4.9. Mercedes-Benz Group AG
 - 9.4.9.1. Participant's Overview
 - 9.4.9.2. Financial Performance
 - 9.4.9.3. Product Benchmarking
 - 9.4.9.4. Strategic Initiatives
- 9.4.10. Stellantis NV
 - 9.4.10.1. Participant's Overview
 - 9.4.10.2. Financial Performance
 - 9.4.10.3. Product Benchmarking
 - 9.4.10.4. Strategic Initiatives?

List Of Tables

LIST OF TABLES

Table 1 U.S. battery electric vehicle market size estimates & forecasts, 2021 - 2033 (USD Billion)

Table 2 U.S. battery electric vehicle market, by vehicle type, 2021 - 2033 (USD Billion)

Table 3 U.S. battery electric vehicle market, by vehicle speed, 2021 - 2033 (USD Billion)

Table 4 U.S. battery electric vehicle market, by vehicle range, 2021 - 2033 (USD Billion)

Table 5 U.S. battery electric vehicle market, by battery capacity, 2021 - 2033 (USD Billion)

Table 6 U.S. battery electric vehicle market, by end use, 2021 - 2033 (USD Billion)

List Of Figures

LIST OF FIGURES

- Fig. 1 U.S. Battery electric vehicle market segmentation
- Fig. 2 Market research vehicle speed
- Fig. 3 Information procurement
- Fig. 4 Primary research pattern
- Fig. 5 Market research approaches
- Fig. 6 Value chain-based sizing & forecasting
- Fig. 7 Parent market analysis
- Fig. 8 Market formulation & validation
- Fig. 9 U.S. Battery electric vehicle market snapshot
- Fig. 10 U.S. Battery electric vehicle market segment snapshot
- Fig. 11 U.S. Battery electric vehicle market competitive landscape snapshot
- Fig. 12 Market research vehicle speed
- Fig. 13 Market driver relevance analysis (Current & future impact)
- Fig. 14 Market restraint relevance analysis (Current & future impact)
- Fig. 15 U.S. Battery electric vehicle market: Vehicle Type outlook key takeaways (USD Billion)
- Fig. 16 U.S. Battery electric vehicle market: Vehicle Type movement analysis, 2025 & 2033 (USD Billion)
- Fig. 17 Scooters market revenue estimates and forecasts, 2021 - 2033 (USD Billion)
- Fig. 18 Motorcycles market revenue estimates and forecasts, 2021 - 2033 (USD Billion)
- Fig. 19 Three-wheelers market revenue estimates and forecasts, 2021 - 2033 (USD Billion)
- Fig. 20 Passenger cars market revenue estimates and forecasts, 2021 - 2033 (USD Billion)
- Fig. 21 Buses market revenue estimates and forecasts, 2021 - 2033 (USD Billion)
- Fig. 22 Trucks market revenue estimates and forecasts, 2021 - 2033 (USD Billion)
- Fig. 23 U.S. Battery electric vehicle market: Vehicle Speed outlook key takeaways (USD Billion)
- Fig. 24 U.S. Battery electric vehicle market: Vehicle Speed movement analysis, 2025 & 2033 (USD Billion)
- Fig. 25 Less than 100 MPH market revenue estimates and forecasts, 2021 - 2033 (USD Billion)
- Fig. 26 100MPH to 125MPH market revenue estimates and forecasts, 2021 - 2033 (USD Billion)
- Fig. 27 Above 125 MPH market revenue estimates and forecasts, 2021 - 2033 (USD Billion)

Billion)

Fig. 28 U.S. Battery electric vehicle market: Vehicle Range outlook key takeaways
(USD Billion)

Fig. 29 U.S. Battery electric vehicle market: Vehicle Range movement analysis, 2025 &
2033 (USD Billion)

Fig. 30 Below 150 km market revenue estimates and forecasts, 2021 - 2033 (USD
Billion)

Fig. 31 150–300 km market revenue estimates and forecasts, 2021 - 2033 (USD Billion)

Fig. 32 Above 300 km market revenue estimates and forecasts, 2021 - 2033 (USD
Billion)

Fig. 33 U.S. Battery electric vehicle market: Battery Capacity outlook key takeaways
(USD Billion)

Fig. 34 U.S. Battery electric vehicle market: Battery Capacity movement analysis, 2025
& 2033 (USD Billion)

Fig. 35 50 kWh market revenue estimates and forecasts, 2021 - 2033 (USD Billion)

Fig. 36 50–100 kWh market revenue estimates and forecasts, 2021 - 2033 (USD Billion)

Fig. 37 >100 kWh market revenue estimates and forecasts, 2021 - 2033 (USD Billion)

Fig. 38 U.S. Battery electric vehicle market: End use outlook key takeaways (USD
Billion)

Fig. 39 U.S. Battery electric vehicle market: End use movement analysis, 2025 & 2033
(USD Billion)

Fig. 40 Personal market revenue estimates and forecasts, 2021 - 2033 (USD Billion)

Fig. 41 Commercial market revenue estimates and forecasts, 2021 - 2033 (USD Billion)

Fig. 42 Strategy framework

Fig. 43 Company Categorization

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