

U.S. Electric Vehicle Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

U.S. Electric Vehicle Market was valued at USD 119.8 billion in 2024 and is poised to expand at a CAGR of 13.7% from 2025 to 2034. One of the key drivers behind this growth is the rapid expansion of high-speed charging networks nationwide. Companies and automakers are making significant investments to develop fast-charging infrastructure, particularly along highways and in urban centers. This widespread rollout aims to address range anxiety, a major barrier for potential EV buyers, by making long-distance travel more convenient.

The increasing availability of fast-charging stations, combined with shorter charging times, is enhancing the overall EV ownership experience. As a result, EVs are becoming a more practical choice for everyday commuting and long-distance trips alike. This infrastructure growth not only boosts consumer confidence but also broadens the appeal of EVs to a larger segment of the population.

Another technological advancement fueling the market is the emergence of bidirectional charging capabilities, commonly known as vehicle-to-home (V2H) and vehicle-to-grid (V2G) technology. These features allow EVs to serve as backup power sources for homes or feed electricity back into the grid during peak demand. Automakers are increasingly integrating these innovations, making EVs an attractive option for energy-conscious consumers and contributing to grid stability.

In terms of propulsion, the market is segmented into Hybrid Electric Vehicles (HEVs), Battery Electric Vehicles (BEVs), Fuel Cell Electric Vehicles (FCEVs), and Plug-in Hybrid Electric Vehicles (PHEVs). BEVs dominated the market with a 60% share in 2024, driven by advancements in battery technology that offer extended driving ranges

and faster charging times. As battery costs continue to decline, BEVs are becoming more competitive with traditional internal combustion engine vehicles, further accelerating their adoption.

By vehicle type, passenger cars held approximately 75% of the market in 2024, reflecting strong consumer demand for affordable, environmentally friendly options. Automakers are responding by introducing a diverse range of electric models designed to meet the needs of urban and suburban drivers. Federal and state incentives also play a crucial role in making EV ownership more accessible and cost-effective.

California emerged as a leading market, accounting for 25% of the total revenue in 2024. The state's progressive environmental policies, financial incentives, and extensive charging infrastructure have created a robust ecosystem that supports EV adoption, setting a benchmark for other regions across the U.S.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research design
 - 1.1.1 Research approach
 - 1.1.2 Data collection methods
- 1.2 Base estimates and calculations
 - 1.2.1 Base year calculation
 - 1.2.2 Key trends for market estimates
- 1.3 Forecast model
- 1.4 Primary research & validation
 - 1.4.1 Primary sources
 - 1.4.2 Data mining sources
- 1.5 Market definitions

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Supplier landscape
 - 3.2.1 Raw material supplier
 - 3.2.2 Component supplier
 - 3.2.3 Manufacturer
 - 3.2.4 Service provider
 - 3.2.5 Distributor
 - 3.2.6 End use
- 3.3 Profit margin analysis
- 3.4 Cost breakdown analysis
- 3.5 Technology & innovation landscape
- 3.6 Key news & initiatives
- 3.7 Regulatory landscape
- 3.8 Impact forces
 - 3.8.1 Growth drivers

- 3.8.1.1 Government incentives and tax credits for EV buyers
- 3.8.1.2 Expansion of public and home charging infrastructure
- 3.8.1.3 Rising fuel prices driving shift to electric vehicles
- 3.8.1.4 Increased consumer awareness of climate impact
- 3.8.2 Industry pitfalls & challenges
 - 3.8.2.1 Limited charging stations in rural regions
 - 3.8.2.2 High upfront costs compared to gasoline vehicles
- 3.9 Growth potential analysis
- 3.10 Porter's analysis
- 3.11 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive positioning matrix
- 4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY PROPULSION, 2021 - 2034 (\$MN, UNITS)

- 5.1 Key trends
- 5.2 BEV
- 5.3 HEV
- 5.4 PHEV
- 5.5 FCEV

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY VEHICLE, 2021 - 2034 (\$MN, UNITS)

- 6.1 Key trends
- 6.2 Two-wheelers
 - 6.2.1 Motorcycles
 - 6.2.2 E-bikes
- 6.3 Passenger cars
 - 6.3.1 Sedan
 - 6.3.2 SUV
 - 6.3.3 Hatchback
 - 6.3.4 Others

6.4 Commercial vehicles

6.4.1 Light

6.4.2 Medium

6.4.3 Heavy

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY DRIVETRAIN, 2021 - 2034 (\$MN, UNITS)

7.1 Key trends

7.2 Front-wheel drive

7.3 Rear-wheel drive

7.4 All-wheel drive

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY BATTERY, 2021 - 2034 (\$MN, UNITS)

8.1 Key trends

8.2 Sealed lead acid

8.3 Nickel metal hydride (NiMH)

8.4 Lithium Ion

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY RANGE, 2021 - 2034 (\$MN, UNITS)

9.1 Key trends

9.2 Less than 100 km

9.3 100 km-200 km

9.4 200 km to 300 km

9.5 Above 300 km

CHAPTER 10 MARKET ESTIMATES & FORECAST, BY PRICE RANGE, 2021 - 2034 (\$MN, UNITS)

10.1 Key trends

10.2 Below USD 10,000

10.3 USD 10,000 to USD 30,000

10.4 USD 30,000 to USD 50,000

10.5 Above USD 50,000

CHAPTER 11 MARKET ESTIMATES & FORECAST, BY END-USE, 2021 - 2034 (\$MN, UNITS)

- 11.1 Key trends
- 11.2 Personal
- 11.3 Commercial
 - 11.3.1 Government
 - 11.3.2 Private

CHAPTER 12 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2034 (\$MN, UNITS)

- 12.1 Key trends
- 12.2 Alabama
- 12.3 Alaska
- 12.4 Arizona
- 12.5 Arkansas
- 12.6 California
- 12.7 Colorado
- 12.8 Florida
- 12.9 Georgia
- 12.10 Idaho
- 12.11 Illinois
- 12.12 Indiana
- 12.13 Iowa
- 12.14 Kansas
- 12.15 Kentucky
- 12.16 Louisiana
- 12.17 Maine
- 12.18 Massachusetts
- 12.19 Michigan
- 12.20 Minnesota
- 12.21 Mississippi
- 12.22 Missouri
- 12.23 Montana
- 12.24 Nebraska
- 12.25 Nevada
- 12.26 New Jersey
- 12.27 New Mexico

12.28 New York
12.29 North Carolina
12.30 North Dakota
12.31 Ohio
12.32 Oklahoma
12.33 Oregon
12.34 Pennsylvania
12.35 South Carolina
12.36 South Dakota
12.37 Tennessee
12.38 Texas
12.39 Utah
12.40 Virginia
12.41 Washington
12.42 West Virginia
12.43 Wisconsin
12.44 Wyoming
12.45 Rest of U.S.

CHAPTER 13 COMPANY PROFILES

13.1 Bollinger Motors
13.2 BMW
13.3 Canoo
13.4 Chevrolet
13.5 Ford
13.6 Fisker Automotive
13.7 Harley-Davidson
13.8 Hyundai
13.9 Lordstown Motors
13.10 Lucid Motors
13.11 Mercedes-Benz
13.12 Nissan
13.13 Proterra
13.14 Rivian
13.15 Tesla
13.16 Volkswagen
13.17 Workhorse Group
13.18 Zero Motorcycles

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