

# **Bidirectional Charging Market Size, Share & Trends Analysis Report By Vehicle Type (Passenger Car, Light Commercial Vehicle ), By Propulsion Type (BEV, PHEV), By Charging Type (AC, DC), By Application, By End-use, By Region, And Segment Forecasts, 2026 - 2033**

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## **Abstracts**

The global bidirectional charging market size was estimated at USD 290.9 million in 2025 and is projected to reach USD 1,591.0 million by 2033, growing at a CAGR of 24.4% from 2026 to 2033. The rapid growth in electric vehicle adoption and the increasing need for grid flexibility amid rising renewable energy integration are major growth factors behind the growth bidirectional charging market.

One of the primary advantages of bi-directional EV charging is its contribution to electric grid stability. Surplus energy can be absorbed during periods of high generation and fed back into the grid during peak demand, thereby helping to balance supply and demand fluctuations. In addition, during power outages, backup power can be supplied to homes, hospitals, and other critical facilities through bi-directional EV charging. It can also function as a distributed energy resource, enhancing the overall resilience of the energy system. Thus, the increasing demand for bidirectional charging solutions, owing to their numerous benefits, is expected to drive market growth.

Factors such as increased renewable energy integration and greater energy flexibility are expected to drive the bidirectional charging market, as power systems increasingly rely on intermittent sources such as solar and wind. Several market players are introducing bidirectional charging systems that allow renewable energy-powered EV charging. For instance, in September 2025, Solarwatt introduced the bidirectional

Charger Max wallbox, which enables two-way energy flows to support solar-powered EV charging and, in the future, electricity feed-in to homes. The solution also features calibration compliance and supports individual billing, making it suitable for both residential and multi-user applications. Such initiatives are expected to contribute to the growth of the market.

The growing emphasis on grid resilience and urban electrification is expected to accelerate investments in bidirectional charging infrastructure. Commercial fleet operators are increasingly adopting advanced charging technologies that enable electric vehicles to operate as distributed energy resources, thereby contributing to urban energy system stability and flexibility. For example, in September 2025, the California Energy Commission awarded USD 1.1 million to a Brooklyn-based EV charging company under its Enabling Electric Vehicles as Distributed Energy Resources program to develop the curbside vehicle-to-grid EV charger. The initiative aims to deploy bidirectional curbside charging infrastructure that allows electric vehicles to both draw electricity from and feed power back into the grid, reinforcing the broader industry shift toward commercialization of V2G solutions.

The regulatory landscape of bidirectional charging is evolving as governments and utilities adapt to the growing role of electric vehicles as distributed energy resources. Regulations primarily focus on grid interconnection standards, safety certifications, metering, and compensation mechanisms for energy exported back to the grid. In some regions, vehicle-to-grid (V2G) and vehicle-to-home (V2H) deployment is driven by utility approval processes, grid codes, and market rules for demand response and ancillary services. Supporting pilot programs and incentives are emerging, but market adoption remains dependent on regulatory clarity around energy pricing, billing, and grid participation frameworks.

The bidirectional charging market faces several restraints that are expected to hinder its growth. A primary technical concern is battery degradation, as frequent charging and discharging cycles in V2G systems can accelerate wear and reduce overall battery lifespan. In addition, the rollout of bidirectional charging infrastructure is constrained by the need to upgrade existing grid systems and the requirement for specialized charging equipment capable of managing two-way energy flows, both of which increase complexity and slow adoption. Furthermore, the higher cost of bidirectional chargers compared to conventional unidirectional systems can discourage adoption, particularly in price-sensitive residential markets.

## Global Bidirectional Charging Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels 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 global bidirectional charging market report based on vehicle type, propulsion type, charging type, application, end-use, and region:

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

Passenger Car

Light Commercial Vehicle

Propulsion Type Outlook (Revenue, USD Million, 2021 - 2033)

BEV

PHEV

Charging Type Outlook (Revenue, USD Million, 2021 - 2033)

AC Charging

DC Charging

Application Outlook (Revenue, USD Million, 2021 - 2033)

V2G

V2H

V2L

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

Residential

Commercial Fleets

Utility / Grid Operators

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Middle East & Africa (MEA)

KSA

UAE

South Africa

**This report can be delivered to the clients within 3 Business Days**

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