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Global Two-way V2G Charging Stations Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Two-way V2G Charging Stations market size was valued at US$ 186 million in 2025 and is forecast to a readjusted size of US$ 718 million by 2032 with a CAGR of 21.1% during review period.

In this report, Two-way V2G Charging Stations mainly refer to bidirectional EV charging piles and related charging equipment with two-way charging and discharging capability. These products are able not only to deliver electricity from the grid to electric vehicle batteries during normal charging, but also, under suitable operating conditions, to export power stored in the vehicle battery back to the grid or other end-use power systems through bidirectional conversion and control functions, thereby enabling Vehicle-to-Grid interaction. Unlike the broader concept of V2G systems, the term here mainly refers to physical charging hardware products, such as charging piles, integrated charging and discharging units, and related equipment systems, rather than software-oriented businesses focused primarily on platform operation, energy aggregation, or dispatch services. The key value of such products lies in overcoming the limitation of conventional one-way chargers that only supply electricity to vehicles, allowing idle EVs to function as dispatchable storage resources for peak shaving, demand response, distributed energy coordination, and backup power support. The market has evolved from early pilot demonstrations toward productization, standardization, and commercialization as power semiconductors, bidirectional power conversion technology, communication protocols, charging control systems, and vehicle-grid coordination standards have matured. Upstream supply mainly includes power semiconductor devices, magnetic components, relays, contactors, breakers, connectors, cables, controllers, communication modules, metering units, cooling parts, structural components, and enclosure materials, along with supporting testing,

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certification, embedded software, and basic energy management functions. Typical upstream suppliers include manufacturers of power electronic components, electrical devices, connectors and cable assemblies, metal and engineering plastic materials, and control and communication modules.In 2025, the global production capacity of V2G two-way charging stations reached 150,000 units, with sales volume of 85,754 units. The average selling price was USD 2,113 per unit, and the gross profit margin of manufacturers was in the range of 25%–35%.

In the current market, two-way V2G charging stations are moving from pilot-oriented deployment toward early commercial implementation, but the industry focus has already shifted beyond simple bidirectional charging capability. Market participants increasingly view EVs within the broader Vehicle-Grid Integration framework, where vehicles serve not only as electricity consumers but also as controllable loads and mobile storage assets that can support peak management, demand response, renewable integration, and site-level resilience. At the same time, commercialization depends less on charger hardware alone and more on the coordination of vehicle compatibility, aggregator platforms, utility participation, tariff design, and interconnection procedures. As a result, the most commercially viable applications today tend to emerge in fleets, school buses, managed depots, campuses, and other semi-closed environments where charging behavior is predictable and grid services can be orchestrated more reliably.

Looking ahead, the market is likely to evolve toward deeper standardization, platform integration, resource aggregation, and energy system convergence. Two-way V2G charging stations are gradually being repositioned from standalone EVSE assets to distributed energy interface points that can interact with virtual power plants, building energy management systems, solar-plus-storage architectures, and broader grid-edge coordination platforms. Recent policy and research efforts around beneficial VGI suggest that future competition will depend not only on charging performance, but also on protocol compatibility, dispatch precision, software integration, user participation design, and value-sharing mechanisms across the electricity and mobility ecosystems. As interoperability testing, standards alignment, and grid integration frameworks continue to improve, the sector is expected to move toward more repeatable deployment models across residential, commercial, fleet, and utility-support applications.

Even so, the market still faces significant constraints, and most of them are systemic rather than purely technical. Interoperability across vehicles, charging equipment, communication layers, and grid connection rules remains one of the biggest barriers to scale. In parallel, the revenue logic is not yet fully mature: a site may technically be able

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to export power, but without stable compensation structures, clear aggregator roles, workable market access, and utility-aligned settlement mechanisms, project economics can remain uncertain. Concerns also persist around battery wear implications, cybersecurity, metering accuracy, interconnection complexity, and customer consent management. For that reason, market expansion is unlikely to follow a simple linear path. Instead, adoption will probably accelerate first in regions and applications where regulatory support is stronger, grid flexibility needs are more urgent, and vehicle fleets are concentrated enough to support predictable dispatch and measurable value capture.

This report is a detailed and comprehensive analysis for global Two-way V2G Charging Stations market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Two-way V2G Charging Stations market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Two-way V2G Charging Stations market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Two-way V2G Charging Stations market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Two-way V2G Charging Stations market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Two-way V2G Charging Stations

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To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Two-way V2G Charging Stations market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wallbox, Fermata Energy, dcbel, Indra, ABB, Qingdao TGOOD Electric, Infypower, Sinexcel, Tonhe, ATC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Two-way V2G Charging Stations market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

AC Charging

DC Charging

Market segment by Deployment Scenario

Residential V2G Charging Stations

Commercial Building V2G Charging Stations

Fleet And Depot V2G Charging Stations

Public V2G Charging Stations

Market segment by Power Output

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Low-Power V2G Charging Stations

Medium-Power V2G Charging Stations

High-Power V2G Charging Stations

Market segment by Application

Passenger Vehicle Charging Stations

Light Commercial Vehicle Charging Stations

Bus Charging Stations

Special Vehicle Charging Stations

Major players covered

Wallbox

Fermata Energy

dcbel

Indra

ABB

Qingdao TGOOD Electric

Infypower

Sinexcel

Tonhe

ATC

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Sojo Electric

EAST

Winline

Injet New Energy

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Two-way V2G Charging Stations product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Two-way V2G Charging Stations, with price, sales quantity, revenue, and global market share of Two-way V2G Charging Stations from 2021 to 2026.

Chapter 3, the Two-way V2G Charging Stations competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Two-way V2G Charging Stations breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Two-way V2G Charging Stations market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Two-way V2G Charging Stations.

Chapter 14 and 15, to describe Two-way V2G Charging Stations sales channel, distributors, customers, research findings and conclusion.

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