

Global Vehicle-To-Grid (V2G) Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Vehicle-To-Grid (V2G) market size was valued at USD 33 million in 2023 and is forecast to a readjusted size of USD 2008.7 million by 2030 with a CAGR of 79.9% during review period.

Vehicle-to-grid, or V2G technology, is defined as a system that is capable of controlling the bidirectional flow of electricity between the vehicle and the grid. Electricity flows from the grid to the vehicle to charge the battery. Also, electricity can flow back from the vehicle to the grid when required. A majority of the time, electric vehicles are not in use. During this idle time, the batteries of these vehicles can be utilized for supplying electricity back to the grid.

Since the V2G technology has only been commercialized in 2020, and has not yet been commercialized on a large scale, the report predicts and analyses revenue data for 2020-2030

Global vehicle-to-grid (V2G) key players include NUVVE, Enel Energia , Moixa, E.ON, The Mobility House, etc. Global top 5 players hold a share about 87%.

Europe is the largest market, with a share about 45%, followed by Asia-Pacific and North America, having a total share about 50 percent.

In terms of product, unidirectional V2G is the largest segment, with a share about 72%. And in terms of application, the largest application is battery electric vehicles, followed by plug-in hybrid electric vehicles, fuel cell vehicles.

The Global Info Research report includes an overview of the development of the Vehicle-To-Grid (V2G) industry chain, the market status of Battery Electric Vehicles (Unidirectional V2G, Bidirectional V2G), Plug-In Hybrid Electric Vehicles (Unidirectional V2G, Bidirectional V2G), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Vehicle-To-Grid (V2G).

Regionally, the report analyzes the Vehicle-To-Grid (V2G) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Vehicle-To-Grid (V2G) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Vehicle-To-Grid (V2G) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Vehicle-To-Grid (V2G) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Unidirectional V2G, Bidirectional V2G).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Vehicle-To-Grid (V2G) market.

Regional Analysis: The report involves examining the Vehicle-To-Grid (V2G) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Vehicle-To-Grid (V2G) market. This may include estimating market growth rates, predicting market demand, and identifying emerging

trends.

The report also involves a more granular approach to Vehicle-To-Grid (V2G):

Company Analysis: Report covers individual Vehicle-To-Grid (V2G) players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Vehicle-To-Grid (V2G). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Battery Electric Vehicles, Plug-In Hybrid Electric Vehicles).

Technology Analysis: Report covers specific technologies relevant to Vehicle-To-Grid (V2G). It assesses the current state, advancements, and potential future developments in Vehicle-To-Grid (V2G) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Vehicle-To-Grid (V2G) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Vehicle-To-Grid (V2G) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Unidirectional V2G

Bidirectional V2G

Market segment by Application

Battery Electric Vehicles

Plug-In Hybrid Electric Vehicles

Fuel Cell Vehicles

Market segment by players, this report covers

NUVVE

Enel Energia

Moixa

E.ON

The Mobility House

Tennet

Fermata Energy

KEPCO

EDF Energy

Tokyo Electric Power

ActewAGL

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and

Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Vehicle-To-Grid (V2G) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Vehicle-To-Grid (V2G), with revenue, gross margin and global market share of Vehicle-To-Grid (V2G) from 2019 to 2024.

Chapter 3, the Vehicle-To-Grid (V2G) competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Vehicle-To-Grid (V2G) market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Vehicle-To-Grid (V2G).

Chapter 13, to describe Vehicle-To-Grid (V2G) research findings and conclusion.

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