

# Global Vehicle-to-Grid (V2G) Bidirectional Chargers Market Growth 2024-2030

<https://marketpublishers.com/r/G2EAFC9B92EAEN.html>

Date: July 2024

Pages: 114

Price: US\$ 3,660.00 (Single User License)

ID: G2EAFC9B92EAEN

## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

Bidirectional EV charging is exactly what it sounds like EV charging that goes two ways. Whilst with unidirectional (one-way) EV chargers, electricity flows from the electric grid into the electric vehicle, with bidirectional (two-way) EV chargers, electricity can flow both ways.

Usually, EVs use chargers that enable a unidirectional flow of electricity from the grid to the vehicle for charging purposes. Bidirectional chargers, on the other hand, have the capability to facilitate a two-way flow of energy. This means that when required, the charged battery of an EV can send surplus energy back to the grid or be used to power a home or building, acting as a temporary energy storage system.

This technology allows EVs to contribute to grid stability, support energy demand during peak times, and serve as distributed energy storage, ultimately enhancing the efficiency and flexibility of the power grid. Bidirectional EV charging also enables a more integrated and sustainable energy ecosystem.

V2G refers to exporting power back to the national grid from your EV's battery, whereas with V2H, the energy in your EV battery is used solely to meet the energy needs of your home. For the V2H trial, the charger will be optimised to avoid exporting power back to the grid.

The global Vehicle-to-Grid (V2G) Bidirectional Chargers market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of %from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “Vehicle-to-Grid (V2G) Bidirectional Chargers Industry Forecast” looks at past sales and reviews total world Vehicle-to-Grid (V2G) Bidirectional Chargers sales in 2023, providing a comprehensive analysis by region and market sector of projected Vehicle-to-Grid (V2G) Bidirectional Chargers sales for 2024 through 2030. With Vehicle-to-Grid (V2G) Bidirectional Chargers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vehicle-to-Grid (V2G) Bidirectional Chargers industry.

This Insight Report provides a comprehensive analysis of the global Vehicle-to-Grid (V2G) Bidirectional Chargers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vehicle-to-Grid (V2G) Bidirectional Chargers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vehicle-to-Grid (V2G) Bidirectional Chargers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vehicle-to-Grid (V2G) Bidirectional Chargers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vehicle-to-Grid (V2G) Bidirectional Chargers.

United States market for Vehicle-to-Grid (V2G) Bidirectional Chargers is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Vehicle-to-Grid (V2G) Bidirectional Chargers is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Vehicle-to-Grid (V2G) Bidirectional Chargers is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Vehicle-to-Grid (V2G) Bidirectional Chargers players cover Sigenergy, Wallbox, Rectifier Technologies, Emporia Energy, Fermata Energy, etc. In terms of revenue, the global two largest companies occupied for a share nearly

% in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of Vehicle-to-Grid (V2G) Bidirectional Chargers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

?10kW

10-20kW

?20kW

Segmentation by Application:

Commercial

Household

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Sigenergy

Wallbox

Rectifier Technologies

Emporia Energy

Fermata Energy

Indra Renewable Technologies Limited

Delta Electronics

Autel Energy

Enphase

SolarEdge

GM Energy

Ford

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Vehicle-to-Grid (V2G) Bidirectional Chargers market?

What factors are driving Vehicle-to-Grid (V2G) Bidirectional Chargers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vehicle-to-Grid (V2G) Bidirectional Chargers market opportunities vary by end

market size?

How does Vehicle-to-Grid (V2G) Bidirectional Chargers break out by Type, by Application?

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