

# **Electric Vehicle Charging Stations Market by Type (Plug-in, Wireless), Component (Hardware, Software), Bus Charging Infrastructure, Connector (CCS, CHAdeMO, GB/T, Tesla Supercharger), Installation, and End User- Global Forecast to 2027**

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## **Abstracts**

Electric Vehicle Charging Stations Market by Type (Plug-in, Wireless), Component (Hardware, Software), Bus Charging Infrastructure, Connector (CCS, CHAdeMO, GB/T, Tesla Supercharger), Installation, and End User- Global Forecast to 2027

The research report titled “Electric Vehicle Charging Stations Market by Type (Plug-in, Wireless), Component (Hardware, Software), Bus Charging Infrastructure, Connector (CCS, CHAdeMO, GB/T, Tesla Supercharger), Installation, and End User- Global Forecast to 2027” provides in-depth analysis of electric vehicle charging stations market in five major geographies and emphasizes on the current market trends, market size, market share, recent developments, and forecast till 2027. In terms of value, the electric vehicle charging stations market is expected to grow at a CAGR of 39.8% from 2020 to 2027 to reach \$29.7 billion by 2027; whereas, in terms of volume, the market is expected to grow at a CAGR of 31.8% from 2020 to 2027 to reach 15,025.5 thousand units by 2027. This market is majorly driven by the government incentives, subsidies, and funding for the installation of charging stations; and automakers’ initiatives for the charging infrastructure development. However, the high cost of fast-charging stations, stringent rules for installation, and complex charging infrastructure obstructs the growth of this market to some extent.

The global electric vehicle charging stations market study presents historical market data in terms of value and volume (2018 and 2019), estimated current data (2020), and forecasts for 2027. The market is segmented on the basis of type (plug-in charging

station- level 1 charging station, level 2 charging station, level 3 charging station; wireless charging station), components (hardware, software), bus charging infrastructure (off-board top-down pantograph, on-board bottom-up pantograph), connector (CCS, CHAdeMO, GB/T, tesla supercharger, Type 2 (IEC 62196), Type 1 (SAE J1772)), installation (fixed, portable), and end-user (commercial-on road, public parking, others; non-commercial- residential, non-residential). The study also evaluates the industry competitors and analyses the market at the country level.

Based on the charging station type, plug-in charging stations segment is estimated to account for the largest share of the overall electric vehicle charging stations market in 2020. The growth in this segment is mainly driven by the government and automakers initiatives to expand the level 3 plug-in charging station infrastructure. However, the wireless charging stations market is expected to witness rapid growth during the forecast period. The rapid growth of this segment is primarily attributed to the automaker's initiatives for the development of wireless charging stations technology and government funding for the installation of the wireless charging stations.

Based on bus charging infrastructure, the off-board top-down pantograph segment is estimated to command the largest share of the overall electric vehicle charging stations market in 2020. However, the on-board bottom-up pantograph segment is estimated to witness rapid growth during the forecast period. The on-board bottom-up pantograph charging solution is a fast-charging system mainly used for the charging of electric buses in cities with existing DC networks, such as for tramways. Factors attributed to driving the growth of this segment include increasing adoption of electric buses in countries such as China and the United States over the past years.

Based on connector type, the overall electric vehicle charging stations market is segmented into CCS, CHAdeMO, GB/T, tesla supercharger, Type 2 (IEC 62196), and Type 1 (SAE J1772)). The GB/T segment is estimated to command the largest share of the overall electric vehicle charging stations market in 2020. However, the CCS segment is projected to grow with the fastest CAGR during the forecast period. This is primarily attributed to the increasing preference by major U.S. and European automakers such as BMW (Germany), Tesla (U.S.), Daimler AG (Germany), FCA (U.K.), Ford (U.S.), Jaguar (U.K.), General Motors (U.S.), Group PSA (France), MG (U.K.), Polestar (Canada), Renault (France), and Volkswagen Group (Germany).

Based on end-user, the commercial end-user segment is estimated to account for the largest share of the overall market in 2020, mainly due to the increased installation of charging stations in public places like shopping malls, restaurants, commercial

buildings, public parking spaces, and airports owing to the convenience of usage during the commercial activities. The commercial end-user segment is further segmented into on-road, public parking, and others. The on-road end-user segment is estimated to account for the largest share of the overall electric vehicle charging stations market in 2020. The growth of this segment is aided by the growing installation of charging points by fuel stations within their premises and rise in the installation of charging stations at highways and intercity roads

Geographically, the global electric vehicle charging stations market is segmented into five major geographies, namely North America, Europe, Asia-Pacific, Latin America, and the Middle East and Africa. The Asia Pacific region is estimated to command the largest share of the overall electric vehicle charging stations market in 2020. The large share of this region is primarily attributed to the increasing demand for electric vehicles in countries such as China, Japan, and South Korea, owing to stringent regulations to curb pollution; incentives to promote the sale of electric vehicle; and subsidy on installation of charging stations.

Some of the key players operating in this market are ABB (Switzerland), ChargePoint, Inc. (U.S.), Tesla, Inc. (U.S.), Schneider Electric SE (France), Siemens AG (Germany), Efacec (Portugal), Delta Electronics, Inc. (Taiwan), Leviton Manufacturing Co., Inc. (U.S.), EVBox (The Netherlands), Blink Charging (U.S.), Alfen (The Netherlands), The New Motion B.V. (The Netherlands), Star Charge (China), Eaton Corporation Inc (Ireland), SemaConnect (U.S.), Webasto (Germany), Robert Bosch GmbH (Germany), and ClipperCreek Inc. (U.S.) among others.

## Scope of the report

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##### Level 2 Charging Station

##### Level 3 Charging Station

#### Wireless Charging Station

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Hardware

Software

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Off-Board Top-Down Pantograph

On-Board Bottom-Up Pantograph

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CCS

CHAdeMO

GB/T

Tesla Supercharger

Type 1 (SAE J1772)

Type 2 (IEC 62196)

## Electric Vehicle Charging Stations Market, by Installation Type

Portable

Fixed

## Electric Vehicle Charging Stations Market, by End User

Commercial

On-Road

Public Parking

Others

Non-Commercial

Residential

Non-Residential

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Canada

Europe

U.K.

Germany

France

The Netherlands

Norway

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

Latin America

Middle East and Africa

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