

# **Global Bus Pantograph Charger market Size study, by Charging type (Level 1, Level 2, and Direct Current Fast Charging (DCFC)), by Component type (Hardware and Software), by Charging infrastructure (off-board top-down pantograph and On-Board Bottom-Up Pantograph) and Regional Forecasts 2022-2028**

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## **Abstracts**

Global Bus Pantograph Charger market is valued at approximately USD 1970.74 million in 2021 and is anticipated to grow with a healthy growth rate of more than 17% over the forecast period 2022-2028. The Pantograph charger is a roadside charging station with a roof spanning the roadway. Contacts from the overhead charger are lowered onto a pantograph when the bus approaches the charging station and connects to rails located on the vehicle's front roof. The market growth is driven by key factors such as growing strategic collaboration between charging solution providers and bus manufacturers and growing efforts to reduce greenhouse gas (GHG) emissions. For instance, in 2018, the Volkswagen Group subsidiary Electrify America in the US announced its intention to contribute USD 44 million to promote the Green City initiative in the city of Sacramento. China dominates the market for electric bus charging infrastructure, followed by Europe and North America. Furthermore, in November 2021, Siemens Smart Infrastructure made the announcement that it will supply the charging infrastructure, i.e., charging by on-board pantograph and contact hood with 100 and 450 kilowatts for 21 all electric low-floor buses in Leipzig. The accompanying contract was given to VDL Bus & Coach by Leipziger Verkehrsbetriebe (LVB) GmbH, the city of Leipzig's public transportation provider. The connection is made possible in both systems by contact hoods. This means that the buses will be fitted with a pantograph that is movable bottom-up for charging, like a streetcar. Through the contact rails located in the hood, the car charges automatically. Moreover, growing government investments and their focus on improving

charging infrastructure propel the market growth in upcoming years. However, reduction in charging time for electric buses impedes the growth of the market over the forecast period of 2022-2028.

The key regions considered for the global Bus Pantograph Charger market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is leading the market share globally, owing to several government initiatives and growing popularity of electric school buses across the country. However, Europe is the fastest growing region due to increasing adoption of electric buses across the region in the upcoming years.

Major market players included in this report are:

Electrify America LLC.

ChargePoint

Royal Dutch Shell PLC

Hangzhou AoNeng Power Supply Equipment Co., Ltd.

Blink Charging

Siemens AG

Shell

BYD

ABB

Tesla

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Application offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Charging Type:

Level 1

Level 2

Direct Current Fast Charging

**By Component Type:**

Hardware

Software

**By Charging Infrastructure:**

Off-board top-down pantograph

On-Board Bottom-Up Pantograph

**By Region:**

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020

Base year – 2021

Forecast period – 2022 to 2028

**Target Audience of the Global Bus Pantograph Charger market in Market Study:***Global Bus Pantograph Charger market Size study, by Charging type (Level 1, Level 2, and Direct Current Fast C...*

Key Consulting Companies & Advisors  
Large, medium-sized, and small enterprises  
Venture capitalists  
Value-Added Resellers (VARs)  
Third-party knowledge providers  
Investment bankers  
Investors

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