+44 20 8123 2220
info@marketpublishers.com

EV Charging Station Market by Application, Level of Charging, Charging Point, Charging Infrastructure, Operation, DC Fast Charging, Charge Point Operator, Connection Phase, Service, Installation and Region - Global Forecast to 2030

https://marketpublishers.com/r/E5783174087EN.html
Date: April 2024
Pages: 396
Price: US$ 4,950.00 (Single User License)
ID: E5783174087EN

Abstracts

The global EV Charging Station market is estimated to grow from USD 7.3 billion in 2024 to USD 12.1 billion by 2030, at a CAGR of 8.8%. Parameters such as increase in demand for electric vehicles, along with significant technological growth of EV Charging Station market are expected to bolster the revenue growth of the EV Charging Station market during the forecast period. In addition, reducing prices of electric vehicles, paired with government policies and subsidies to setup EV Charging Infrastructure will create new opportunities for EV Charging Station market.

“Mode 3 Charger segment is expected to be the largest market during the forecast period, by level of charging.”

As the demand for electric vehicles (EVs) surges, Mode 3 EV charging stations are gaining popularity. These stations feature a type 2 socket for AC charging, suitable for installation in public areas, workplaces, and apartment complexes, but not intended for private use. Mode 3 charging is prevalent in public charging stations worldwide, employing level 2 AC chargers capable of delivering higher power than standard household outlets. Recent advancements in Mode 3 EV charging focus on enhancing charging speeds, safety features, and user interfaces. Many countries are investing significantly in Mode 3 charging infrastructure to accommodate the expanding EV market. For instance, the EU aims to establish one million public charging points by 2025, and China plans to operate 1.2 million public charging stations by 2030. In the United States, major automakers and utilities are collaborating to expand the charging

+44 20 8123 2220
info@marketpublishers.com

network, while various states have set targets for EV adoption and charging infrastructure development. Mode 3 charging necessitates continuous connection to an electrical network through a power supply system and is commonly utilized in wall boxes, commercial charging points, and other automatic charging systems using AC power.

“Level 3 chargers expected to be the largest segment in EV Charging Station market during the forecast period”

The increasing demand for accessible rapid charging is set to boost the market. Level 3 chargers, having over 50 kW power, can swiftly charge an electric vehicle in under an hour. These chargers operate through a 480V direct current (DC) plug and deliver a commendable performance, covering approximately 270 km in just 30 minutes. While these chargers are the most expensive option, they cater to longer journeys, commercial vehicles like taxis, and individuals with limited access to home charging. ABB (Switzerland) has developed a rapid-charging station capable of juicing up an EV in less than half an hour, boasting power ratings of up to 400 kW. Currently, it stands as the fastest available recharging solution, adding an average of 80 to 130 kilometers in a mere 30-minute session. Tesla's supercharger can provide up to 270 km in the same duration, utilizing 480 V, 400 Amp current, and delivering 240 kW power. Charging stations of this caliber typically range from USD 30,000 to USD 50,000 on average, owing to significantly higher equipment costs and the need for transformer installation. Leading CPOs and CPMs are working to develop products for high power Level 3 charging. For instance, in January 2023, ChargePoint (US) and Stem (US) forged an agreement leveraging their AI-driven clean energy solutions and services to accelerate the deployment of EV charging and battery storage solutions. Similarly, in February 2022, Tritium (Australia) partnered with Wise EV (US), a subsidiary of renewable energy service provider Wise Power, to supply rapid chargers for a new nationwide EV charging network.

“North America is expected to have the significant growth during the forecast period.”

North America includes developed nations such as the US and Canada, serving as a key regional center for esteemed Original Equipment Manufacturers (OEMs) renowned for delivering top-quality, high-performance vehicles. Notable OEMs like Tesla and GM prioritize the development of faster, cleaner, and high-performance electric vehicles, accompanied by charging infrastructure. Tesla's NACS EV charging has attained official North American Standard certification, representing a significant milestone in the EV charging domain. NACS aims to enhance installations, reduce costs, and improve

+44 20 8123 2220
info@marketpublishers.com

accessibility. The widespread adoption of NACS by prominent automakers sets the standard for efficient and reliable charging infrastructure, ensuring that public EV networks, alongside those operated by Tesla, benefit from crucial federal funding support. Leading OEMs such as BMW, Nissan, Volkswagen, and Daimler have introduced electric vehicles in the region. The primary companies providing electric vehicle charging stations in the US include ChargePoint, Leviton, Blink Charging, SemaConnect, EVgo, and Volta. Numerous prominent companies, including Tesla, General Motors, EVgo, Pilot, Hertz, and BP, are actively expanding their networks by deploying thousands of public charging ports over the next two years. Canada anticipates a surge in demand for charging stations due to its burgeoning EVCS startup ecosystem and increasing EV presence.

In-depth interviews were conducted with CEOs, marketing directors, other innovation and technology directors, and executives from various key organizations operating in this market.

By Company Type: OEMs - 24%, Tier I - 67%, and Others - 9%

By Designation: CXOs - 33%, Managers - 52%, and Executives - 15%

By Region: North America - 40%, Europe - 20%, Asia Pacific - 28%, East China - 6%, Middle East - 3%, and Rest Of the World - 3%

The EV Charging Station market is dominated by major players including ABB (Switzerland), BYD (China), Chargepoint (US), Tesla (US), Siemens (Germany), among others. These companies have strong product portfolio as well as strong distribution networks at the global level.

Research Coverage:

This research report categorizes EV charging station market by level of charging (level 1, level 2, and level 3), application (private, semi-public, and public), based on charging point type (AC charging, DC charging), charging infrastructure type (CCS, CHAdeMO, Type 1, Tesla SC (NACS), GB/T Fast, and Type 2), electric bus charging type (off-board top-down pantographs, on-board bottom-up pantographs, and charging via connectors), charging service type (EV charging services and battery swapping services), charge point operator (Asia Pacific, Europe, North America), DC fast charging type [Slow DC (349 kW), installation type (portable chargers and fixed chargers), operation (mode 1,

+44 20 8123 2220
info@marketpublishers.com

mode 2, mode 3, and mode 4), connection phase (single phase and three phase), and Region (China, Asia Pacific, Europe, North America, Middle East and Rest of the World). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the EV charging station market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; Contracts, partnerships, agreements, new product & service launches, mergers and acquisitions, and recent EV charging station market developments. This report covers the competitive analysis of upcoming startups in the EV charging station market ecosystem.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants with information on the closest approximations of revenue numbers for the overall EV Charging Station market and its subsegments.

This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies.

The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report also helps stakeholders understand the current and future pricing trends of different EV Charging systems based on their capacity.

The report provides insight on the following pointers:

Analysis of key drivers (Rising EV sales globally, government policies and subsidies to support faster setup of EV charging stations, increased electric vehicle range due to technological advancements, reducing prices of electric vehicles in global market), restraints (Lack of standardization of charging infrastructure, costly installation and maintenance of ultrafast EV charging stations, grid infrastructure limitations), challenges (Higher initial cost of electric vehicles compared to ICE vehicles, stringent regulations for installation of EV charging stations, dependence on fossil fuel electricity generation, shortage of lithium for use in EV batteries), and opportunities (Trend of V2G EV charging for

+44 20 8123 2220
info@marketpublishers.com

electric vehicles, integration of IoT and smart infrastructure in EV charging stations for load management, development of EV charging stations using renewable sources, increasing demand for battery-swapping stations, plans for smart city deployment, shift to smart EV chargers).

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the EV Charging Station market.

Market Development: Comprehensive information about lucrative markets - the report analyses the EV Charging Station market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the EV Charging Station market.

Competitive Assessment: In-depth assessment of market ranking, growth strategies, and service offerings of leading players like ABB (Switzerland), Tritium (Australia), BYD (China), ChargePoint (US), Tesla (US) , and Charge Point Operators including BP (UK), Shell (UK), ENGIE (France), Total Energies (France), Enel X (Italy), among others in EV Charging Station market.

+44 20 8123 2220
info@marketpublishers.com

Contents

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

21.6 AUTHOR DETAILS

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: EV Charging Station Market by Application, Level of Charging, Charging Point, Charging Infrastructure, Operation, DC Fast Charging, Charge Point Operator, Connection Phase, Service, Installation and Region - Global Forecast to 2030

Product link: https://marketpublishers.com/r/E5783174087EN.html

Price: US$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/E5783174087EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below

+44 20 8123 2220
info@marketpublishers.com

and fax the completed form to +44 20 7900 3970