

# **Wireless EV Charging Market Forecasts to 2032 – Global Analysis By Charging Type (Stationary Wireless Charging Systems (SWCS), and Dynamic In-Road Wireless Charging Systems (DWCS)), Charging System (Inductive Power Transfer (IPT) / Magnetic Resonant Coupling, Magnetic Field Alignment Multi-coil Systems, and Capacitive Power Transfer (CPT)), Component, Power Output, Vehicle Type, Installation Site, Distribution Channel, and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Wireless EV Charging Market is accounted for \$43.9 million in 2025 and is expected to reach \$598.6 million by 2032, growing at a CAGR of 45.2% during the forecast period. The wireless EV charging focuses on inductive and resonant charging systems that transfer power from coils embedded in pads or road surfaces to electric vehicles without cables. It includes residential pads, workplace and public chargers, and pilot dynamic charging lanes. Benefits include improved user convenience, reduced cable wear and vandalism, safer charging environments, better integration with autonomous vehicles, and potential for more frequent, opportunity-based charging that can extend battery life.

### **Market Dynamics:**

Driver:

Growing EV adoption and demand for convenient, automated charging solutions

The primary catalyst for the wireless EV charging market is the accelerating global adoption of electric vehicles, coupled with a growing consumer demand for more convenient and automated charging experiences. This technology eliminates the need for physical cables, offering a seamless 'park and charge' solution that enhances user convenience. Furthermore, its potential integration into fleet operations and public infrastructure can reduce operational downtime, making EV ownership more practical. This alignment, with the broader shift toward electrification and smart infrastructure, fundamentally drives market growth by addressing key user experience hurdles.

#### Restraint:

Higher costs compared to conventional wired charging systems

The complex technology involving precision coils, power electronics, and alignment systems leads to increased manufacturing and installation expenses. Additionally, for public charging networks, the cost of embedding hardware into the ground presents a considerable infrastructure investment. These economic factors currently limit the technology to early adopters and specific commercial applications, restraining its penetration into the mass consumer market in the immediate term.

#### Opportunity:

Integration with autonomous vehicles for fully automated charging

A key long-term opportunity is to combine wireless charging with the creation of self-driving cars (AVs). This synergy is critical for enabling fully automated charging processes without any human intervention, which is a core requirement for the viability of autonomous taxi fleets and logistics vehicles. A self-driving car could independently navigate to a wireless charging pad, align itself, and recharge, maximizing operational uptime. This prospect is attracting significant investment from both automotive and technology companies, positioning wireless charging as an essential component of the future autonomous mobility ecosystem.

#### Threat:

Safety concerns regarding electromagnetic exposure

Despite adherence to international safety standards, concerns about potential health risks and interference with medical devices like pacemakers could hinder public

acceptance and regulatory approval. Moreover, the risk of foreign object heating, where metallic debris on the charging pad could overheat, presents an engineering and safety hurdle. Effectively mitigating these concerns through robust public education and demonstrably safe product design is crucial for gaining consumer trust and ensuring regulatory compliance.

#### Covid-19 Impact:

The COVID-19 pandemic initially disrupted the wireless EV charging market, causing supply chain delays and a temporary slowdown in automotive production and infrastructure investments. However, the crisis also underscored the value of contactless technologies, potentially accelerating long-term interest in automated solutions like wireless charging. As the global economy recovers, pent-up demand for EVs and renewed government focus on sustainable infrastructure have helped the market rebound. The pandemic ultimately highlighted the technology's relevance in a post-COVID world focused on hygiene and automation, strengthening its future market proposition.

The stationary wireless charging systems (SWCS) segment is expected to be the largest during the forecast period

The stationary wireless charging systems (SWCS) segment is expected to account for the largest market share during the forecast period, as it directly serves the most immediate and widespread application. This includes garages at home, public parking lots, and commercial fleet depots. The technology's promise of ultimate convenience for daily charging routines fits perfectly with how people already act. Moreover, its simpler implementation compared to dynamic charging makes it the first logical step for commercialization, securing its dominant position in the foreseeable future.

The magnetic field alignment multi-coil systems segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the magnetic field alignment multi-coil systems segment is predicted to witness the highest growth rate due to its superior performance in overcoming a key limitation: the need for precise alignment between the vehicle and the ground pad. Multi-coil systems offer a much larger charging area and greater positional flexibility, significantly enhancing user convenience. As the market matures, this technological advantage is expected to become a standard requirement, driving rapid adoption and making it the fastest-growing segment in the coming years.

### Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, attributed to strong government support for EV infrastructure, high consumer purchasing power, and the presence of major technology innovators and automotive OEMs actively developing and trialing the systems. Early standardization efforts and significant investments in R&D within the region create a fertile ground for initial commercial deployment, establishing North America as the dominant revenue-generating market in the short to medium term.

### Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, fueled by the world's largest and fastest-growing EV markets, particularly China and South Korea, where government mandates and ambitious electrification targets are paramount. Additionally, the dense urban populations in key APAC countries present a strong use case for convenient charging solutions. The region's robust electronics manufacturing ecosystem also positions it to scale production efficiently, enabling rapid market expansion and the highest growth rate globally.

### Key players in the market

Some of the key players in Wireless EV Charging Market include WiTricity Corporation, HEVO Inc., Plugless Power Inc., InductEV Inc., Electreon Wireless Ltd., WAVE – Wireless Advanced Vehicle Electrification, Inc., Qualcomm Incorporated, Continental AG, Robert Bosch GmbH, Toshiba Corporation, Texas Instruments Incorporated, BMW AG, Volvo Car Corporation, Porsche AG, and Mercedes-Benz Group AG.

### Key Developments:

In November 2025, Electreon Wireless Ltd. signed an MoU to acquire the assets of InductEV, aiming to combine Electreon's dynamic and high-power stationary wireless charging with InductEV's ultra-fast static systems into a unified global platform.

In September 2024, WiTricity Corporation published "Wireless EV charging: Ready for prime time," highlighting that its 11 kW systems are mature for mainstream deployment and more reliable for fleets than plug-in chargers.

In August 2024, WAVE – Wireless Advanced Vehicle Electrification, Inc. announced a successful demonstration of a 500 kW ultra-fast wireless charging system for electric trucks in Indianapolis, showing hands-free megawatt-class capability for heavy-duty fleets.

#### Charging Types Covered:

Stationary Wireless Charging Systems (SWCS)

Dynamic In-Road Wireless Charging Systems (DWCS)

#### Charging Systems Covered:

Inductive Power Transfer (IPT) / Magnetic Resonant Coupling

Magnetic Field Alignment Multi-coil Systems

Capacitive Power Transfer (CPT)

#### Components Covered:

Base Charging Pad

Vehicle Charging Pad

Power Control Unit/Inverter/Alignment System

#### Power Outputs Covered:

Low Power (Up to 11 kW)

Medium Power (11 kW – 50 kW)

High Power (Above 50 kW)

Vehicle Types Covered:

Passenger Vehicles

Commercial Vehicles

Installation Sites Covered:

Residential

Commercial/Public Charging Stations

Fleet & Depot Charging Facilities

Roadways/Highways

Distribution Channels Covered:

Original Equipment Manufacturer (OEM)

Aftermarket

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

**What our report offers:**

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

**Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

**Company Profiling**

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

**Regional Segmentation**

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

**Competitive Benchmarking**

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Emerging Markets
- 3.7 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

### **5 GLOBAL WIRELESS EV CHARGING MARKET, BY CHARGING TYPE**

- 5.1 Introduction
- 5.2 Stationary Wireless Charging Systems (SWCS)
- 5.3 Dynamic In-Road Wireless Charging Systems (DWCS)

## **6 GLOBAL WIRELESS EV CHARGING MARKET, BY CHARGING SYSTEM**

- 6.1 Introduction
- 6.2 Inductive Power Transfer (IPT) / Magnetic Resonant Coupling
- 6.3 Magnetic Field Alignment Multi-coil Systems
- 6.4 Capacitive Power Transfer (CPT)

## **7 GLOBAL WIRELESS EV CHARGING MARKET, BY COMPONENT**

- 7.1 Introduction
- 7.2 Base Charging Pad
- 7.3 Vehicle Charging Pad
- 7.4 Power Control Unit/Inverter/Alignment System

## **8 GLOBAL WIRELESS EV CHARGING MARKET, BY POWER OUTPUT**

- 8.1 Introduction
- 8.2 Low Power (Up to 11 kW)
- 8.3 Medium Power (11 kW – 50 kW)
- 8.4 High Power (Above 50 kW)

## **9 GLOBAL WIRELESS EV CHARGING MARKET, BY VEHICLE TYPE**

- 9.1 Introduction
- 9.2 Passenger Vehicles
- 9.3 Commercial Vehicles
  - 9.3.1 Light Commercial Vehicles
  - 9.3.2 Buses and Coaches
  - 9.3.3 Medium & Heavy Trucks

## **10 GLOBAL WIRELESS EV CHARGING MARKET, BY INSTALLATION SITE**

- 10.1 Introduction
- 10.2 Residential
- 10.3 Commercial/Public Charging Stations

10.4 Fleet & Depot Charging Facilities

10.5 Roadways/Highways

## **11 GLOBAL WIRELESS EV CHARGING MARKET, BY DISTRIBUTION CHANNEL**

11.1 Introduction

11.2 Original Equipment Manufacturer (OEM)

11.3 Aftermarket

## **12 GLOBAL WIRELESS EV CHARGING MARKET, BY GEOGRAPHY**

12.1 Introduction

12.2 North America

12.2.1 US

12.2.2 Canada

12.2.3 Mexico

12.3 Europe

12.3.1 Germany

12.3.2 UK

12.3.3 Italy

12.3.4 France

12.3.5 Spain

12.3.6 Rest of Europe

12.4 Asia Pacific

12.4.1 Japan

12.4.2 China

12.4.3 India

12.4.4 Australia

12.4.5 New Zealand

12.4.6 South Korea

12.4.7 Rest of Asia Pacific

12.5 South America

12.5.1 Argentina

12.5.2 Brazil

12.5.3 Chile

12.5.4 Rest of South America

12.6 Middle East & Africa

12.6.1 Saudi Arabia

12.6.2 UAE

- 12.6.3 Qatar
- 12.6.4 South Africa
- 12.6.5 Rest of Middle East & Africa

## **13 KEY DEVELOPMENTS**

- 13.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 13.2 Acquisitions & Mergers
- 13.3 New Product Launch
- 13.4 Expansions
- 13.5 Other Key Strategies

## **14 COMPANY PROFILING**

- 14.1 WiTricity Corporation
- 14.2 HEVO Inc.
- 14.3 Plugless Power Inc.
- 14.4 InductEV Inc.
- 14.5 Electreon Wireless Ltd.
- 14.6 WAVE - Wireless Advanced Vehicle Electrification, Inc.
- 14.7 Qualcomm Incorporated
- 14.8 Continental AG
- 14.9 Robert Bosch GmbH
- 14.10 Toshiba Corporation
- 14.11 Texas Instruments Incorporated
- 14.12 BMW AG
- 14.13 Volvo Car Corporation
- 14.14 Porsche AG
- 14.15 Mercedes-Benz Group AG

## List Of Tables

### LIST OF TABLES

Table 1 Global Wireless EV Charging Market Outlook, By Region (2024–2032) (\$MN)

Table 2 Global Wireless EV Charging Market Outlook, By Charging Type (2024–2032) (\$MN)

Table 3 Global Wireless EV Charging Market Outlook, By Stationary Wireless Charging Systems (SWCS) (2024–2032) (\$MN)

Table 4 Global Wireless EV Charging Market Outlook, By Dynamic In-Road Wireless Charging Systems (DWCS) (2024–2032) (\$MN)

Table 5 Global Wireless EV Charging Market Outlook, By Charging System (2024–2032) (\$MN)

Table 6 Global Wireless EV Charging Market Outlook, By Inductive Power Transfer (IPT) / Magnetic Resonant Coupling (2024–2032) (\$MN)

Table 7 Global Wireless EV Charging Market Outlook, By Magnetic Field Alignment Multi-coil Systems (2024–2032) (\$MN)

Table 8 Global Wireless EV Charging Market Outlook, By Capacitive Power Transfer (CPT) (2024–2032) (\$MN)

Table 9 Global Wireless EV Charging Market Outlook, By Component (2024–2032) (\$MN)

Table 10 Global Wireless EV Charging Market Outlook, By Base Charging Pad (2024–2032) (\$MN)

Table 11 Global Wireless EV Charging Market Outlook, By Vehicle Charging Pad (2024–2032) (\$MN)

Table 12 Global Wireless EV Charging Market Outlook, By Power Control Unit/Inverter/Alignment System (2024–2032) (\$MN)

Table 13 Global Wireless EV Charging Market Outlook, By Power Output (2024–2032) (\$MN)

Table 14 Global Wireless EV Charging Market Outlook, By Low Power (Up to 11 kW) (2024–2032) (\$MN)

Table 15 Global Wireless EV Charging Market Outlook, By Medium Power (11 kW – 50 kW) (2024–2032) (\$MN)

Table 16 Global Wireless EV Charging Market Outlook, By High Power (Above 50 kW) (2024–2032) (\$MN)

Table 17 Global Wireless EV Charging Market Outlook, By Vehicle Type (2024–2032) (\$MN)

Table 18 Global Wireless EV Charging Market Outlook, By Passenger Vehicles (2024–2032) (\$MN)

Table 19 Global Wireless EV Charging Market Outlook, By Commercial Vehicles (2024–2032) (\$MN)

Table 20 Global Wireless EV Charging Market Outlook, By Light Commercial Vehicles (2024–2032) (\$MN)

Table 21 Global Wireless EV Charging Market Outlook, By Buses and Coaches (2024–2032) (\$MN)

Table 22 Global Wireless EV Charging Market Outlook, By Medium & Heavy Trucks (2024–2032) (\$MN)

Table 23 Global Wireless EV Charging Market Outlook, By Installation Site (2024–2032) (\$MN)

Table 24 Global Wireless EV Charging Market Outlook, By Residential (2024–2032) (\$MN)

Table 25 Global Wireless EV Charging Market Outlook, By Commercial/Public Charging Stations (2024–2032) (\$MN)

Table 26 Global Wireless EV Charging Market Outlook, By Fleet & Depot Charging Facilities (2024–2032) (\$MN)

Table 27 Global Wireless EV Charging Market Outlook, By Roadways/Highways (2024–2032) (\$MN)

Table 28 Global Wireless EV Charging Market Outlook, By Distribution Channel (2024–2032) (\$MN)

Table 29 Global Wireless EV Charging Market Outlook, By Original Equipment Manufacturer (OEM) (2024–2032) (\$MN)

Table 30 Global Wireless EV Charging Market Outlook, By Aftermarket (2024–2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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