Japan EV Charging Station - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 90 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License $4750.00
- Team License (1-7 Users) $5250.00
- Site License $6500.00
- Corporate License $8750.00

Report description:

The Japan EV Charging Station Market size is estimated at USD 0.29 billion in 2025, and is expected to reach USD 1.85 billion by 2030, at a CAGR of 44.92% during the forecast period (2025-2030).

The Japanese EV charging stations market reveals a landscape marked by rapid growth and evolving dynamics. With the increasing adoption of electric vehicles (EVs) in Japan, the demand for charging infrastructure has surged.

This demand is fueled by various factors, including government initiatives to promote clean energy and reduce carbon emissions. Japan's commitment to achieving carbon neutrality by 2050 further underscores the importance of robust EV charging infrastructure.

The market is characterized by a diverse range of players, including established energy companies, automotive manufacturers, and startups specializing in charging solutions. These entities are actively investing in the deployment of charging stations across the country to cater to the growing EV user base.

Moreover, partnerships and collaborations between different stakeholders are becoming increasingly common to accelerate the expansion of the charging network. The emphasis is on developing fast-charging technology to address consumer concerns regarding charging time and convenience. Fast-charging stations, capable of replenishing EV batteries quickly, are gaining traction in urban centers and along major highways.

Furthermore, the emergence of smart charging solutions, enabled by advanced technologies such as IoT and AI, is transforming the way EVs are charged. These solutions offer benefits such as optimized charging schedules, remote monitoring, and billing

integration, enhancing user experience and grid management.

However, challenges persist, including the need for standardization of charging protocols, interoperability between different charging networks, and addressing concerns related to grid capacity and stability. Overcoming these challenges will be crucial for the sustained growth of the Japanese EV charging stations market.

Despite these obstacles, the outlook for the market remains promising, driven by supportive government policies, technological advancements, and the growing awareness of the environmental benefits of EVs.

Japan EV Charging Station Market Trends

DC Charging Stations are Dominating the Market

Japan's ambitious electrification targets, coupled with the rapid adoption of electric vehicles, have intensified the demand for efficient and high-speed charging solutions. DC charging stations have emerged as a preferred choice due to their ability to deliver significantly faster charging times compared to AC alternatives.

The prominence of DC charging stations can be attributed to several factors. Firstly, their compatibility with fast-charging protocols such as CHAdeMO and CCS (Combined Charging System) aligns with the preferences of EV manufacturers and consumers alike. These protocols facilitate rapid replenishment of EV batteries, offering convenience and minimizing downtime for drivers.

Moreover, Japan's geographical characteristics, including its densely populated urban areas and extensive highway networks, necessitate the deployment of charging infrastructure capable of supporting long-distance travel. DC charging stations, often strategically positioned along highways and in urban centers, address this need by providing fast and reliable charging options for EV owners on the go.

Furthermore, technological advancements and innovation in DC charging technology have played a pivotal role in driving its dominance in the market. The development of next-generation charging solutions, such as ultra-fast chargers capable of delivering power levels exceeding 350 kW, demonstrates the industry's commitment to enhancing charging efficiency and user experience.

Additionally, collaborations and partnerships between government entities, energy companies, automotive manufacturers, and charging infrastructure providers have facilitated the widespread deployment of DC charging stations across Japan. These collaborative efforts have expedited the expansion of the charging network, making it more accessible and convenient for EV owners throughout the country.

Despite the growing prevalence of DC charging stations, challenges such as standardization of charging protocols, interoperability between different networks, and grid capacity, constraints persist. Addressing these challenges will be essential to ensure the seamless integration of DC charging infrastructure into Japan's evolving mobility ecosystem.

With their ability to deliver fast and efficient charging solutions, DC stations are poised to remain at the forefront of Japan's electrification efforts, driving continued growth and innovation in the EV charging infrastructure industry.

Home Charging Driving Major Growth for the Market

Public charging stations offer several advantages over home charging setups. Firstly, they cater to the needs of EV owners who

may not have access to private parking or home charging facilities, which is common in densely populated urban areas where residential space is limited.

In 2022, Japan's urban population experienced a slight decline, totaling 115,058,684 individuals, marking a decrease of 0.35% compared to the previous year.

Furthermore, public charging stations provide greater flexibility and convenience for EV owners, especially during long-distance travel or when away from home for extended periods. They offer a reliable option for topping up EV batteries while running errands, dining out, or engaging in leisure activities without the need to return home for charging.

The prominence of public charging infrastructure is also driven by the strategic placement of charging stations along major highways and transportation corridors. These strategically located stations facilitate long-distance travel and promote the adoption of electric vehicles for intercity journeys, addressing range anxiety concerns among drivers.

Moreover, the expansion of Japan's public charging network is supported by collaborations between government agencies, energy companies, automotive manufacturers, and charging infrastructure providers. These partnerships have led to significant investments in charging infrastructure deployment and enhancing accessibility and coverage across the country.

However, despite the dominance of public charging stations, home charging remains an essential component of the overall charging ecosystem. Home charging setups offer the convenience of overnight charging, allowing EV owners to start each day with a full battery without needing to visit a public charging station.

Additionally, home charging solutions may be preferred by EV owners for their cost-effectiveness and the ability to take advantage of off-peak electricity rates. Home chargers also provide a sense of control and security, as EV owners have direct access to their charging infrastructure and can monitor charging progress from the comfort of their homes.

Therefore, while public charging infrastructure dominates the Japanese EV charging station market, home charging solutions continue to play a vital role in supporting the charging needs of EV owners. The coexistence of both public and home charging options reflects the diverse preferences and requirements of Japan's growing electric vehicle ecosystem.

Japan EV Charging Station Industry Overview

The Japanese EV charging station market is fairly consolidated, with a major share being held by a few companies. Some of the major players in the market are ABB, Delta Electronics Inc., and Toyota. The major players in the country are entering joint ventures with other players to develop the latest technologies. For instance,

- In October 2023, in Japan, an electric vehicle (EV) pilot project was set to commence in Kashiwa-no-ha, near Tokyo, focusing on the evaluation of wireless charging technology. It was spearheaded by a collaborative effort involving the University of Tokyo, Chiba University, and nine prominent companies including Bridgestone, Mitsui Fudosan, ROHM, and NSK.
- This initiative aims to advance the development of an innovative "in-motion power supply system." This system is designed to wirelessly charge EVs as they navigate traffic intersections. Notably, a mere 10-second charge is projected to provide sufficient power for a typical electric car to cover a distance of 0.6 miles.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

Japan EV Charging Station - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 90 pages | Mordor Intelligence

To place an Order with Scotts International:

- - Print this form
- - Complete the relevant blank fields and sign
- - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	$4750.00
	Team License (1-7 Users)	$5250.00
	Site License	$6500.00
	Corporate License	$8750.00
	VAT	
	Total	

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	
Address*		City*	
Zip Code*		Country*	
		Date	2025-05-09
		Signature