

Rising EV Adoption to Drive Solar EV Charging Market to USD 330.9 Million by 2031

Solar EV charging is redefining sustainable mobility by merging clean energy with electric vehicle infrastructure.

WILMINGTON, DE, UNITED STATES,
September 1, 2025 /EINPresswire.com/
-- According to a new report published
by Allied Market Research, titled, "Solar
EV charging Market by Charging Level
(Level 2, Level 3 (DC Fast Charging),
Level 1), by System (Off Grid, On Grid),
by Application (Private EV Charger,
Public EV Charger): Global Opportunity
Analysis and Industry Forecast, 2021 2031" The global solar EV charging



market was valued at USD 159.6 million in 2021, and is projected to reach USD 330.9 million by 2031, growing at a CAGR of 8.1% from 2022 to 2031.

The solar EV charging market is emerging as a crucial component of sustainable mobility, integrating renewable solar energy with electric vehicle (EV) infrastructure. By leveraging photovoltaic (PV) panels to generate clean electricity, solar EV chargers reduce dependence on the grid, lower charging costs, and minimize carbon emissions. Growing adoption of EVs, coupled with the global shift toward decarbonization, is driving demand for solar-powered charging solutions across residential, commercial, and public applications.

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The primary driver of the solar EV charging market is the global rise in electric vehicle adoption supported by government incentives, stricter emission regulations, and sustainability commitments by automakers. As the EV fleet expands, the demand for reliable and eco-friendly charging infrastructure is growing rapidly.

Technological advancements in solar panels and energy storage systems are also enhancing the

efficiency and viability of solar EV charging stations. Innovations in fast-charging solutions and integration with smart grids are creating significant growth opportunities.

High installation costs and space requirements for PV panels act as restraints for market growth, particularly in urban areas with limited space availability. Additionally, dependency on weather conditions can sometimes affect energy generation.

The market is witnessing increasing adoption in residential and commercial spaces, supported by financial incentives, net metering policies, and carbon reduction goals. Solar-powered EV charging aligns well with the sustainability objectives of corporations and municipalities.

Furthermore, strategic partnerships among automakers, solar energy providers, and charging infrastructure companies are shaping the competitive landscape. These collaborations aim to accelerate large-scale deployments and improve accessibility to solar EV charging solutions worldwide.

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The <u>solar EV charging market scope</u> is segmented into charging level (Level 1, Level 2, DC fast charging), application (residential, commercial, public), and component (solar panels, EV chargers, energy storage systems, and software solutions). The commercial and public application segments are expected to witness the fastest growth due to rising demand for workplace and on-route charging facilities.

North America and Europe dominate the solar EV charging market, supported by strong policy frameworks, renewable energy targets, and widespread EV adoption. The U.S., Germany, and the Netherlands are major contributors with robust charging infrastructure developments.

Asia-Pacific is anticipated to grow at the fastest rate, led by China, Japan, and India, where governments are heavily investing in EV adoption and solar infrastructure. Emerging economies are also recognizing the potential of solar EV charging to address grid reliability challenges while meeting climate commitments.

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The competitive landscape is characterized by the presence of both global energy companies and specialized charging infrastructure providers. Companies are focusing on innovation in solar panel efficiency, integration of battery storage, and development of fast-charging systems to gain market share.

Major players operating in the solar EV charging market include iSun, Inc., Bharat Heavy Electricals Limited, Zhejiang Benyi New Energy Co., Ltd., PowerFlex, EmPower Solar, HES Solar., Paired Power, KEBA, Brightfield Transportation Solutions., ChargePoint, Inc.

- Rising EV adoption and renewable energy integration are the primary growth drivers.
- Technological advancements in solar PV and storage systems are improving market viability.
- High installation costs and space constraints remain key challenges.
- Asia-Pacific is projected to be the fastest-growing regional market.
- Strategic partnerships and government incentives are fueling large-scale deployments.

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