# Rising Adoption of Renewable Energy to Drive Solar Carport Market Toward $1.7 Billion by 2032

*Solar carports maximize land use efficiency by transforming parking spaces into clean energy hubs, supporting both sustainability and mobility goals.*

WILMINGTON, DE, UNITED STATES, August 25, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, “Solar Carport Market by Design Type (T-Shape, V-Shape, L-Shape, Y-Shape), by Vehicle Arrangement (One-Row, Double-Row), by Application (Commercial, Residential, Industrial): Global Opportunity Analysis and Industry Forecast, 2022 - 2032” The global solar carport market size was valued at $ 0.8 billion in 2022, and is projected to reach $1.7 billion by 2032, growing at a CAGR of 8.1% from 2023 to 2032.

The solar carport market is witnessing robust growth as it integrates renewable energy generation with functional infrastructure. Solar carports are overhead canopies fitted with photovoltaic panels that provide covered parking while generating clean electricity. They offer dual benefits—utilizing underused parking spaces for energy production and reducing carbon footprints. The demand is expanding globally, driven by the shift toward renewable energy, urban infrastructure optimization, and government initiatives promoting sustainable energy solutions.

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The primary driver of the solar carport market is the global push for renewable energy adoption, supported by favorable policies, tax incentives, and subsidies. By combining solar power generation with existing parking infrastructure, these systems help optimize space in urban and commercial environments, appealing to governments, businesses, and institutions.

Another significant driver is the rising adoption of electric vehicles (EVs). Solar carports can be integrated with EV charging stations, creating a seamless, sustainable ecosystem for green transportation. This factor is expected to fuel demand as EV adoption continues to surge worldwide.

High installation costs and the need for significant upfront investment remain key restraints for market growth. Many businesses and individuals hesitate due to capital requirements, despite

long-term cost benefits. Additionally, site suitability and structural considerations can limit large-scale deployment.

On the opportunity side, the integration of advanced technologies such as smart grids, energy storage, and vehicle-to-grid (V2G) capabilities provides immense potential. With these integrations, solar carports can play a critical role in decentralized energy systems and microgrids.

Environmental concerns and the need to reduce dependency on fossil fuels further accelerate market growth. Solar carports not only generate clean power but also contribute to reducing urban heat effects, making them an attractive option for sustainable urban planning.

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The solar carport market analysis is segmented by type (one-row vehicle design, two-row vehicle design, and V-shaped design), by application (residential, commercial, and industrial), and by ownership model (customer-owned, third-party owned). Among these, the commercial segment is expected to dominate due to rising adoption in shopping malls, offices, and universities where space utilization and sustainability goals align.

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North America is expected to lead the solar carport market owing to strong government support for renewable energy adoption, rapid EV deployment, and the presence of advanced infrastructure. The U.S. and Canada are witnessing rising adoption in corporate campuses, universities, and municipalities.

Asia-Pacific is anticipated to experience the fastest growth, driven by urbanization, increasing electricity demand, and renewable energy targets in countries like China, Japan, and India. Japan, in particular, has been a pioneer in solar carports, with strong adoption in residential and commercial projects due to land scarcity.

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The solar carport market is moderately fragmented, with key players focusing on technological advancements, partnerships, and large-scale installations. Companies are leveraging integrated solutions by combining solar PV, storage systems, and EV charging infrastructure to offer holistic solutions.

Prominent players in the market include Quest Renewables, INC., Mahindra Solarize, Positive Energy Solar, Himzen, Antai Solar, Ganges International, Reenergy, Enerparc, Schletter. Strategic collaborations and government project contracts are common approaches to gain a competitive

edge and expand market presence.

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- Rising EV adoption is boosting demand for solar carports with integrated charging solutions.
- Commercial applications dominate the market, while residential adoption is growing steadily.
- High initial installation costs remain a restraint, but long-term energy savings drive adoption.
- Asia-Pacific is expected to register the highest growth rate due to renewable energy policies.
- Integration with smart grids and energy storage presents major future opportunities.

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