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Solar EPC Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Solar EPC Market was valued at USD 407.6 billion in 2024 and is estimated to grow at a CAGR of 8.1% to reach USD 878.6 billion by 2034. Solar EPC, which stands for Engineering, Procurement, and Construction, involves a comprehensive range of services that cover the entire lifecycle of solar power system deployment. From initial project design and procurement of materials to final construction and commissioning, EPC providers streamline and manage the solar installation process, especially for large-scale systems. As global energy demands continue to evolve, the role of EPC contractors in ensuring timely, cost-effective, and technically sound solar installations is becoming increasingly critical. With growing awareness about climate change, there is a notable shift toward clean energy investments, and solar EPC solutions are emerging as a vital link in transforming sustainability ambitions into reality.

The demand for sustainable energy solutions is surging as nations work aggressively toward decarbonization targets. Governments across regions are introducing supportive regulatory frameworks, subsidies, and incentive programs, which are acting as major catalysts for market growth. Energy companies, in response, are ramping up their solar capacity investments to align with net-zero objectives. Another major trend accelerating the industry is the integration of energy storage with solar systems to create hybrid solutions, delivering a more reliable and consistent power supply. This development is attracting interest from both public and private sector players looking to improve grid stability while reducing carbon emissions.

Rooftop solar is emerging as a dominant segment and is anticipated to generate USD 321 billion by 2034. Rising adoption of rooftop solar panels in both residential and commercial settings, supported by favorable policy frameworks and incentive-based programs, is driving this segment forward. Government initiatives such as subsidies, tax

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rebates, and net metering policies are making small-scale solar installations more accessible to consumers. Additionally, stricter green building mandates and environmental codes that require clean energy systems in new construction are pushing demand upward, reinforcing the industry's carbon-neutral growth trajectory.

The commercial and industrial solar EPC segment is projected to grow at a remarkable CAGR of 39.1% through 2034. This growth is primarily fueled by companies seeking long-term cost savings, regulatory compliance, and enhanced sustainability branding. With renewable energy integration becoming a core component of national energy agendas, key contractors are forming strategic alliances to execute utility-scale solar projects. These collaborations are critical in meeting ambitious clean energy goals across urban and remote regions.

The U.S. Solar EPC Market is forecasted to reach USD 34.3 billion by 2034, bolstered by strong federal incentives, falling solar costs, and robust net metering frameworks. The proliferation of utility-scale solar farms, driven by the Investment Tax Credit (ITC) and other supportive schemes, is making solar power more financially viable. Additionally, the growing emphasis on energy resilience and the integration of large-scale storage solutions are shaping the future of solar EPC across the country.Key players in the Global Solar EPC Market include Waaree Energies, Vikram Solar, Tata Power Solar Systems, Sunel Group, Sterling and Wilson Renewable Energy Limited, Siemens Gamesa Renewable Energy, Sola Group, L&T Construction, Mahindra Susten, Jakson Group, JUWI, Eternia Solar, Chint Solar, Canadian Solar, BELECTRIC, Bechtel Corporation, Black & Veatch Holding Company, BLUELEAF ENERGY, and Abengoa. To strengthen their presence in the solar EPC market, companies are focusing on expanding their technological capabilities and diversifying their portfolios to include cutting-edge solutions such as energy storage and smart grid integration. Strategic partnerships with other players, governments, and financial institutions are being formed to enhance market reach.

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Contents

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