

# Solar Energy Market Worth USD 300.3 Billion by 2032

*Solar Energy Market projected to grow at a CAGR of 12.3% from 2023 to 2032*

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According to a new report published by Allied Market Research, the [solar energy market](#) size was valued at \$94.6 billion in 2022, and solar energy industry is estimated to reach \$300.3 billion by 2032, growing at a CAGR of 12.3% from 2023 to 2032.



Solar energy is the energy that is derived from the rays of the sun, which is renewable and sustainable. It is an alternative source of energy that has gained popularity across the globe due to its environmental benefits and cost-effectiveness. The use of solar energy reduces the dependence on fossil fuels and helps to mitigate climate change by reducing greenhouse gas emissions.

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Growth in concerns over climate change and environmental issues is the Main Driver of Solar energy Market.”

*Allied Market Research*

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Asia-Pacific has emerged as a global leader in the solar energy market, due to a surge in energy demand in developing economies such as India, China, and Thailand, owing to a decrease in dependency on conventional energy sources, including coal & crude oil, and an increase in urbanization.

The development of rural electrification activities in countries such as India, China, and Thailand and the rise in government initiatives to promote the use of renewable energy are anticipated to boost the growth of the global solar energy market opportunities from 2023 to 2032.

First Solar, Inc., SunPower Corporation, Canadian Solar Inc., JinkoSolar Holding Co., Ltd., Trina Solar Co., Ltd, Yingli Green Energy Holding Company Limited, Hanwha Q Cells, JA Solar Holdings Co., Ltd., SolarEdge Technologies, and Enphase Energy Inc., are some of the major players discussed in the [solar energy industry report](#).

The solar energy market has witnessed significant growth over the years, driven by several factors. The main driver is the increase in demand for clean and renewable energy sources.

Governments and organizations worldwide are promoting the adoption of solar energy through incentives, subsidies, and regulations to reduce carbon emissions and mitigate climate change.

Another driver is the declining cost of solar energy technology, making it more accessible to a broader range of consumers.

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Solar energy may be harnessed in different ways, such as through solar panels or solar thermal systems, to generate electricity or heat for residential, commercial, and industrial use.

There are restraints in the market, such as the intermittent of solar energy, which makes it less reliable and less efficient than traditional sources of energy.

In addition, the initial investment required for solar energy systems may be high, making it difficult for some consumers to adopt them. There are opportunities in the market, such as the development of energy storage technologies to address the issue of intermittent and the increasing demand for solar energy in emerging markets, despite these restraints.

On the basis of end-use, the electricity generation segment is expected to have the largest market share due to the increase in demand for [clean and sustainable energy sources](#).

The lighting and heating segments are also expected to have significant growth due to the increase in adoption of solar energy systems for these applications. The charging segment for electric vehicles is expected to have a moderate growth rate due to the increase in adoption of electric vehicles in the transportation sector.

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On the basis of application, the industrial application for electricity generation is expected to have the largest market share due to the high energy requirements of industrial processes.

The residential application for lighting and heating is expected to have a significant growth rate

due to the increasing adoption of solar energy systems in households.

The commercial application for charging electric vehicles is also expected to grow due to the increase in demand for electric vehicles.

On the basis of solar modules, the polycrystalline module is expected to have the largest market share due to its high efficiency and better performance in low-light conditions.

The polycrystalline module is also expected to have significant growth due to its lower cost compared to monocrystalline modules.

The cadmium telluride and amorphous silicon cells are expected to have a moderate growth rate due to their low-cost and high flexibility in installation.

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On the basis of technology, the photovoltaic system is expected to have the largest market share due to its wide range of applications from electronic appliances to utility-scale power generation.

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies

and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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