

Solar Surge: Global Solar Energy Market Projected to Skyrocket Through 2032

Renewable Rays: Exploring the Dynamics of the Solar Energy Market from 2023 Onward

WILMINGTON, DELAWARE, UNITED STATES, January 25, 2024

/EINPresswire.com/ -- Solar energy, a sustainable and environmentally friendly power source, harnesses the sun's radiant energy to generate electricity and heat. This renewable energy technology has gained immense popularity due to its potential to reduce greenhouse gas

emissions and dependence on fossil fuels. Solar panels, composed of photovoltaic cells, convert sunlight into electricity, providing clean energy for various applications. Additionally, solar thermal systems utilize sunlight for heating purposes in industries and households. As advancements continue to drive efficiency improvements and cost reductions, solar energy

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Government incentives, regulations, and growth in demand for renewable energy sources are the key factors boosting the Solar energy market growth.”

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stands as a key player in the global transition toward a cleaner and more sustainable energy future. Embracing solar technology not only mitigates environmental impact but also contributes to energy independence, making it a pivotal component in the quest for a greener and more sustainable world. The [solar energy market](#) size was valued at \$94.6 billion in 2022, and the 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 Market Opportunity

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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.

However, 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.

The solar energy market forecast is segmented based on technology, solar module, application, end-use, and region. Based on technology, the global solar energy market is bifurcated into photovoltaic systems and concentrated solar power systems. Based on solar modules, the market is classified into monocrystalline, polycrystalline, cadmium telluride, amorphous silicon cells, and others. Based on application, the market is divided into residential, commercial, and industrial. Based on end-use, the market is segregated into electricity generation, lighting, heating, and charging. Based on region, the market is studied across North America, Europe, Asia-Pacific, and LAMEA and suggests future [solar energy market growth](#) opportunities.

Based on 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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Based on 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.

Based on 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.

Based on 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 the 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 the adoption of electric vehicles in the transportation sector.

Based on region, Asia-Pacific accounts for the largest share of the market, followed by North America and Europe. 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. In addition, 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.

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Key findings of the report:

- As per solar energy market analysis, based on technology, the photovoltaic systems segment emerged as the global leader by acquiring more than four-fifths of the solar energy market share in 2022 and is anticipated to continue solar energy market trends during the forecast period.
- Based on solar modules, the polycrystalline segment emerged as the global leader by acquiring more than half of the solar energy market shares in 2022 and is anticipated to continue this trend during the forecast period.
- Based on application, the industrial segment emerged as the largest market share in 2022 which accounts for more than two-fifths of the solar energy market share, and is anticipated to continue this trend during the forecast period.
- Based on end-use, the electricity generation segment emerged as the largest market share in 2022 which accounts for more than half of the solar energy market share, and is anticipated to continue this trend during the forecast period.
- Based on region, Asia-Pacific is the major consumer of solar energy among other regions. It accounted for more than two-fifths of the global market shares in 2022. related equipment, as well as new opportunities for solar energy developers.

Key players in the market:

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 report.

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Q. <https://www.globenewswire.com/en/news-release/2023/03/17/2629597/0/en/Transparent-Solar-Cells-Market-Is-Expected-to-Reach-83-5->

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