

Global Space Solar Panel and Array Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Space Solar Panel and Array market size was valued at USD 203.7 million in 2023 and is forecast to a readjusted size of USD 623.3 million by 2030 with a CAGR of 17.3% during review period.

Solar power generation is the predominant method of power generation on small spacecraft. As of 2020, approximately 85% of all nanosatellite form factor spacecraft were equipped with solar panels and rechargeable batteries. Limitations to solar cell use include diminished efficacy in deep-space applications, no generation during eclipse periods, degradation over mission lifetime (due to aging and radiation), high surface area, mass, and cost. In order to pack more solar cells into limited volume in SmallSats and NanoSats, mechanical deployment mechanisms can be added, which may increase spacecraft design complexity, reliability, as well as risks. Photovoltaic cells, or solar cells, are made from thin semiconductor wafers that produce electric current when exposed to light. The light available to a spacecraft solar array, also called solar intensity, varies as the inverse square of the distance from the Sun. The projected surface area of the panels exposed to the Sun also affects generation, and varies as a cosine of the angle between said panel and the Sun. While single junction cells are cheap to manufacture, they carry a relatively low efficiency, usually less than 20%, and are not included in this report. Modern spacecraft designers favor multi-junction solar cells made from multiple layers of light-absorbing materials that efficiently convert specific wavelength regions of the solar spectrum into energy, thereby using a wider spectrum of solar radiation. The Space Solar Panel and Array industry can be broken down into several segments, Space Solar Panel, Space Solar Array, etc.

Global key players of Space Solar Panel and Array are SolAero Technologies, Spectrolab, DHV Technology, GomSpace, ISISPACE, etc. Among them, SolAero Technologies is the biggest manufacturer with a share of over 50%. North America is the largest market who makes up a share of over 50%.

The Global Info Research report includes an overview of the development of the Space Solar Panel and Array industry chain, the market status of Large Spacecraft (Space Solar Panel, Space Solar Array), Small Spacecraft (Space Solar Panel, Space Solar Array), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Space Solar Panel and Array.

Regionally, the report analyzes the Space Solar Panel and Array markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Space Solar Panel and Array market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Space Solar Panel and Array market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Space Solar Panel and Array industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (KW), revenue generated, and market share of different by Type (e.g., Space Solar Panel, Space Solar Array).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Space Solar Panel and Array market.

Regional Analysis: The report involves examining the Space Solar Panel and Array market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer

behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Space Solar Panel and Array market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Space Solar Panel and Array:

Company Analysis: Report covers individual Space Solar Panel and Array manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Space Solar Panel and Array. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Large Spacecraft, Small Spacecraft).

Technology Analysis: Report covers specific technologies relevant to Space Solar Panel and Array. It assesses the current state, advancements, and potential future developments in Space Solar Panel and Array areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Space Solar Panel and Array market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Space Solar Panel and Array market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Space Solar Panel

Space Solar Array

Market segment by Application

Large Spacecraft

Small Spacecraft

Major players covered

SolAero Technologies

Spectrolab

DHV Technology

GomSpace

ISISPACE

NanoAvionics

MMA Design

Pumpkin

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Space Solar Panel and Array product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Space Solar Panel and Array, with price, sales, revenue and global market share of Space Solar Panel and Array from 2019 to 2024.

Chapter 3, the Space Solar Panel and Array competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Space Solar Panel and Array breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Space Solar Panel and Array market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Space Solar Panel and Array.

Chapter 14 and 15, to describe Space Solar Panel and Array sales channel, distributors, customers, research findings and conclusion.

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