

Global Organic Photovoltaics (OPV) 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 Organic Photovoltaics (OPV) market size was valued at USD 123.8 million in 2023 and is forecast to a readjusted size of USD 683.9 million by 2030 with a CAGR of 27.7% during review period.

Organic photovoltaics (OPV) is a rapidly emerging PV technology that convert sunlight into electricity by employing thin films of organic semiconductors. It has a photosensitive nature of the organic matter as a semiconductor material, the photovoltaic effect of the voltage generated by the current to achieve the effect of solar power.

Europe is the largest market with about 47% market share. USA is follower, accounting for about 25% market share.

The key players are ARMOR Group, AGC, Heliatek, Mitsubishi Chemical, Belectric, Henkel, Sunew, Advent Technologies Inc., Sumitomo Chemical, Toshiba, Heraeus, BASF, DisaSolar, EMD Performance Materials, Infinity PV ApS, ENI, Raynergy Tek Incorporation, NanoFlex Power Corporation, Solar Windows Technologies, Mekoprint, KOLON INDUSTRIES, INC. etc.

The Global Info Research report includes an overview of the development of the Organic Photovoltaics (OPV) industry chain, the market status of Consumer Electronics (PN Junction Structure (P-N Heterojunction), Dye-sensitized Nanocrystalline Solar Cells (DSSC)), Wearable Device (PN Junction Structure (P-N Heterojunction), Dye-sensitized Nanocrystalline Solar Cells (DSSC)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market

trends of Organic Photovoltaics (OPV).

Regionally, the report analyzes the Organic Photovoltaics (OPV) 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 Organic Photovoltaics (OPV) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Organic Photovoltaics (OPV) 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 Organic Photovoltaics (OPV) 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 (K Units), revenue generated, and market share of different by Type (e.g., PN Junction Structure (P-N Heterojunction), Dye-sensitized Nanocrystalline Solar Cells (DSSC)).

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 Organic Photovoltaics (OPV) market.

Regional Analysis: The report involves examining the Organic Photovoltaics (OPV) 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 Organic Photovoltaics (OPV) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Organic Photovoltaics (OPV):

Company Analysis: Report covers individual Organic Photovoltaics (OPV) 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 Organic Photovoltaics (OPV). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Wearable Device).

Technology Analysis: Report covers specific technologies relevant to Organic Photovoltaics (OPV). It assesses the current state, advancements, and potential future developments in Organic Photovoltaics (OPV) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Organic Photovoltaics (OPV) 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

Organic Photovoltaics (OPV) 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

PN Junction Structure (P-N Heterojunction)

Dye-sensitized Nanocrystalline Solar Cells (DSSC)

Market segment by Application

Consumer Electronics

Wearable Device

Architecture & Building Integration

Others

Major players covered

ARMOR Group

AGC

Heliatek

Mitsubishi Chemical

Belectric

Henkel

Sunew

Advent Technologies Inc.

Sumitomo Chemical

Toshiba

Heraeus

BASF

DisaSolar

EMD Performance Materials

Infinity PV ApS

ENI

Raynergy Tek Incorporation

NanoFlex Power Corporation

Solar Windows Technologies

Mekoprint

KOLON INDUSTRIES, INC.

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 Organic Photovoltaics (OPV) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Organic Photovoltaics (OPV), with price, sales, revenue and global market share of Organic Photovoltaics (OPV) from 2019 to 2024.

Chapter 3, the Organic Photovoltaics (OPV) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Organic Photovoltaics (OPV) 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 Organic Photovoltaics (OPV) 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 Organic Photovoltaics (OPV).

Chapter 14 and 15, to describe Organic Photovoltaics (OPV) sales channel, distributors, customers, research findings and conclusion.

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