

Global Polymer Solar Cells Market Size study, by Type (Single Layer, Bilayer, Bulk Heterojunction, Multi-junction) by Application (BIPV (Building Integrated Photovoltaic), Consumer Electronics, Automotive, Defence and Emergency) by Technique (Printing Technique, Coating Technique) and Regional Forecasts 2021-2027

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Abstracts

Global Polymer Solar Cells Market is valued approximately USD XXX billion in 2020 and is anticipated to grow with a healthy growth rate of more than 2.5% over the forecast period 2021-2027.

Polymer solar cells or 'plastic solar cells' are made from organic molecules and are basically semiconducting material. Although these thin-film solar cells have high efficiency and stability, the abundance of gallium and indium in the crust is low and cadmium is toxic. They are similar to silicon-based solar cells. Polymer is typical thin-film solar cells include the gallium arsenide, copper indium gallium selenide, cadmium telluride, etc.

Rise in demand for solar panels and increasing population and high growth in infrastructure development driving the growth of market.

In 2019 Global solar PV technology has a total installed capacity of around 580 gigawatts (GW). The polymer solar cells achieved an efficiency of about 16% with rapid emerging PV technology in 2019. Various organizations are performing intensive research with different molecular structures in order to further increase efficiency and are expected to penetrate into the solar PV market in the near future.

High manufacturing cost and complex production process of polymer solar cells is hampering the growth of the market. However, increase in need of clean and

sustainable energy in electricity generation as well as government rules and regulations are enforcing companies to incline towards the use of renewable energy sources results in the growth of market in forthcoming period.

The regional analysis of Global Polymer Solar Cells is considered for the key regions such Asia Pacific, North America, Europe, Latin America and Rest of the World. North America is a dominating player across the world in manufacturing of polymer solar cells and also it owns rapid expansion in the power sector and large number of renewable energies. Asia Pacific has rising number of renewable energy projects, growth in the wearable solar electronics industry, and increase in demand for electricity because of which it holds a huge share of the solar cells market throughout the region. The major factor boosting the global polymer solar PV cells markets in these regions is expansion in electronics and automobiles industries in Europe and Asia Pacific. Middle East & Africa is a new market for global polymer solar PV cells

Major market player included in this report are:

Trina Solar Limited

Tata Power Solar Systems Limited

SolarWorld AG

Jinko Solar Holding Co. Ltd

Alps Technology Inc

Suniva Inc

Pionis Energy Technologies LLC

Borg Inc.

Itek Energy.

NanoFlex Power Corporation

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the Industrial within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Single Layer

Bilayer

Bulk Heterojunction

Multi-junction

By Application:

BIPV (Building Integrated Photovoltaic)

Consumer Electronics

Automotive

Defence and Emergency

By Technique:

Printing Technique

Coating Technique

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoASIA PACIFIC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019

Base year – 2020

Forecast period – 2021 to 2027

Target Audience of the Global Polymer Solar Cells Products Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

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