

Plastic Solar Cell Market by Type (PN Junction Structure (P-N Heterojunction), Dye-Sensitized Nanocrystalline Solar Cells), Application (Disposable Solar Panel, Hydrogen Powered Car, Wireless Devices, and Others) End User (Automotive, Consumer Electronics, Power & Energy, and Others): Global Opportunity Analysis and Industry Forecast, 2019–2026

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Abstracts

Plastic solar cells use nanotechnology and contain the first solar cells which are able to harness the infrared rays. Increase in pollution and market assisting programs such as feed in tariffs & renewable certificates fuel the demand for solar energy with application in various domestic, industrial, and commercial applications. The agriculture & horticulture segment fuels the demand for solar collectors owing to increase in production of cultivable crops, thereby boosting the growth of the solar energy market. In addition, rise in globalization has surged the demand for solar panels in the architectural sector.

The key factors that drive the growth of the global market are rise in government initiatives toward renewable source of energy, increase in demand for plastic solar cells in an electronic industry. However, conversion efficiency of PV system technology challenges hampers the market growth to a certain extent.

The factors such as increase in demand for plastic solar cells in an electronic industry, rise in government initiatives and support toward renewable source of energy and surge in demand for energy in remote areas are the major drivers for the market growth.

However, conversion efficiency of PV system technology acts as a major restraint which can hinder the market growth. Furthermore, R&D in solar cell technologies and emerging new technologies in manufacturing process of plastic solar cells provide lucrative opportunities for growth.

The global plastic solar cell market is segmented into type, application, end user, and region. The type segment is further divided into PN junction structure (P-N heterojunction), and dye-sensitized nanocrystalline solar cells. By application, it is classified into disposable solar panel, hydrogen powered car, wireless devices, and others. The end user segment is divided into automotive, consumer electronics, residential, power & energy, and others. The region-wise divisions are North-America, Europe, Asia-Pacific, and LAMEA.

The key players analyzed in this report are Konarka Technologies, Applied Materials Inc., eSolar Inc., Bright source Energy Inc., Canadian Solar Inc., Abengoa S.A., Acciona Energia S.A. SunPower Corporation, SINTEF, and Tata Power Solar system Ltd.

GLOBAL PLASTIC SOLAR CELL MARKET SEGMENTATION

By Type

PN Junction Structure (P-N Heterojunction)

Dye-Sensitized Nanocrystalline Solar Cells

By Application

Disposable Solar Panel Poster

Hydrogen Powered Car

Wireless Devices

Others

By End User

Automotive

Consumer Electronics

Power & Energy

Others

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY MARKET PLAYERS

Abengoa Solar S.A.

Acciona Energia S.A.

Applied Materials.

Bright Source Energy Inc.

eSolar Inc.

Gintech Energy Corp.

Konarka Technologies.

Sunpower Corporation

Canadian Solar Inc.

Tata Power Solar.

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