

2018-2023 Global Dye-sensitized Solar Cells (DSSC) Consumption Market Report

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Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Dye-sensitized Solar Cells (DSSC) market for 2018-2023.

Dye-sensitized Solar Cells (DSSC) market, A dye-sensitized solar cell (DSSC, DSC, DYSC) is a low-cost solar cell belonging to the group of thin film solar cells. It is based on a semiconductor formed between a photo-sensitized anode and an electrolyte, a photo electrochemical system. The modern version of a dye solar cell, also known as the DSSC, was originally co-invented in 1988 by Brian O'Regan and Michael Grätzel at UC Berkeley and this work was later developed by the aforementioned scientists at the École Polytechnique Fédérale de Lausanne until the publication of the first high efficiency DSSC in 1991. Michael Grätzel has been awarded the 2010 Millennium Technology Prize for this invention.

Dye-sensitized solar cells are a promising potential replacement for silicon-based solar cells. With advancements in nanostructured semiconductors, high-efficiency sensitizers and robust electrolytes, the performance of modern DSSCs is becoming more and more competitive. Simple processing, low-cost materials and a wide range of applications are all helping DSSCs to find a foothold in the marketplace.

Currently, in terms of the productions, the DSSC has not been entered into the commercial production, most of the companies are focus on the research and little demonstration project, for example, the G24 Power has installed some DSSC in the MGM Grand Hotel' 8000 Window; the GRENE has about 3000 m2 capacity but it does

not have big deal.

Over the next five years, LPI(LP Information) projects that Dye-sensitized Solar Cells (DSSC) will register a xx% CAGR in terms of revenue, reach US\$ xx million by 2023, from US\$ xx million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Dye-sensitized Solar Cells (DSSC) market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

TiO₂

SnO₂

ZnO

Nb₂O

Others

Segmentation by application:

Portable Charging

BIPV/BAPV

Embedded Electronics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

GRENE

OPV Tech

3G Solar

Fujikura

G24 Power

Nissha

Exeger

Oxford Photovoltaics

Solaronix

Peccell

SolarPrint

Dyesol

Solaris Nanosciences

Jintex

Everlight Chemical

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global Dye-sensitized Solar Cells (DSSC) consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Dye-sensitized Solar Cells (DSSC) market by identifying its various subsegments.

Focuses on the key global Dye-sensitized Solar Cells (DSSC) manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Dye-sensitized Solar Cells (DSSC) with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Dye-sensitized Solar Cells (DSSC) submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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