

# 2018 Top 5 Dye-sensitized Solar Cells (DSSC) Players in North America, Europe, Asia-Pacific, South America, Middle East and Africa

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## Abstracts

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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 m<sup>2</sup> 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 studies the global market, especially in North America, Europe, Asia-Pacific, South America, Middle East and Africa, focuses on the top 5 players in each region, with sales, price, revenue and market share from 2013 to 2018, the top players:

GRENE

OPV Tech

3G Solar

Fujikura

G24 Power

Nissha

Exeger

Oxford Photovoltaics

Solaronix

Peccell

SolarPrint

Dyesol

Solaris Nanosciences

Jintex

Everlight Chemical

Market Segment by Regions, this report splits Global into several key Regions, with

*2018 Top 5 Dye-sensitized Solar Cells (DSSC) Players in North America, Europe, Asia-Pacific, South America, Mi...*

sales, revenue, market share of top players in these regions, from 2013 to 2018 (forecast), like

North America (United States, Canada and Mexico)

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

Europe (Germany, UK, France, Italy and Russia etc.)

South America (Brazil, Chile, Peru and Argentina)

Middle East and Africa (Egypt, South Africa, Saudi Arabia)

Split by Product Types, with sales, revenue, price, market share of each type, can be divided into

TiO<sub>2</sub>

SnO<sub>2</sub>

ZnO

Nb<sub>2</sub>O

Others

Split by applications, this report focuses on sales, market share and growth rate in each application, can be divided into

Portable Charging

BIPV/BAPV

Embedded Electronics

Others

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