

Global Dye-sensitized Solar Cells (DSSC) Market Insights, Forecast to 2026

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Abstracts

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.

Since the COVID-19 virus outbreak in December 2019, the disease has spread to almost 100 countries around the globe with the World Health Organization declaring it a public health emergency. The global impacts of the coronavirus disease 2019 (COVID-19) are already starting to be felt, and will significantly affect the Dye-sensitized Solar Cells (DSSC) 4900 market in 2020.

COVID-19 can affect the global economy in three main ways: by directly affecting production and demand, by creating supply chain and market disruption, and by its

financial impact on firms and financial markets.

The outbreak of COVID-19 has brought effects on many aspects, like flight cancellations; travel bans and quarantines; restaurants closed; all indoor events restricted; over forty countries state of emergency declared; massive slowing of the supply chain; stock market volatility; falling business confidence, growing panic among the population, and uncertainty about future.

This report also analyses the impact of Coronavirus COVID-19 on the Dye-sensitized Solar Cells (DSSC) 4900 industry.

Based on our recent survey, we have several different scenarios about the Dye-sensitized Solar Cells (DSSC) 4900 YoY growth rate for 2020. The probable scenario is expected to grow by a xx% in 2020 and the revenue will be xx in 2020 from US\$ xx million in 2019. The market size of Dye-sensitized Solar Cells (DSSC) 4900 will reach xx in 2026, with a CAGR of xx% from 2020 to 2026.

With industry-standard accuracy in analysis and high data integrity, the report makes a brilliant attempt to unveil key opportunities available in the global Dye-sensitized Solar Cells (DSSC) market to help players in achieving a strong market position. Buyers of the report can access verified and reliable market forecasts, including those for the overall size of the global Dye-sensitized Solar Cells (DSSC) market in terms of both revenue and volume.

Players, stakeholders, and other participants in the global Dye-sensitized Solar Cells (DSSC) market will be able to gain the upper hand as they use the report as a powerful resource. For this version of the report, the segmental analysis focuses on sales (volume), revenue and forecast by each application segment in terms of sales and revenue and forecast by each type segment in terms of revenue for the period 2015-2026.

Production and Pricing Analyses

Readers are provided with deeper production analysis, import and export analysis, and pricing analysis for the global Dye-sensitized Solar Cells (DSSC) market. As part of production analysis, the report offers accurate statistics and figures for production capacity, production volume by region, and global production and production by each type segment for the period 2015-2026.

In the pricing analysis section of the report, readers are provided with validated statistics and figures for price by manufacturer and price by region for the period 2015-2020 and price by each type segment for the period 2015-2026. The import and export analysis for the global Dye-sensitized Solar Cells (DSSC) market has been provided based on region.

Regional and Country-level Analysis

The report offers an exhaustive geographical analysis of the global Dye-sensitized Solar Cells (DSSC) market, covering important regions, viz, North America, Europe, China and Japan. It also covers key countries (regions), viz, U.S., Canada, Germany, France, U.K., Italy, Russia, China, Japan, South Korea, India, Australia, Taiwan, Indonesia, Thailand, Malaysia, Philippines, Vietnam, Mexico, Brazil, Turkey, Saudi Arabia, UAE, etc.

The report includes country-wise and region-wise market size for the period 2015-2026. It also includes market size and forecast by each application segment in terms of volume for the period 2015-2026.

Competition Analysis

In the competitive analysis section of the report, leading as well as prominent players of the global Dye-sensitized Solar Cells (DSSC) market are broadly studied on the basis of key factors. The report offers comprehensive analysis and accurate statistics on sales by the player for the period 2015-2020. It also offers detailed analysis supported by reliable statistics on price and revenue (global level) by player for the period 2015-2020. On the whole, the report proves to be an effective tool that players can use to gain a competitive edge over their competitors and ensure lasting success in the global Dye-sensitized Solar Cells (DSSC) market. All of the findings, data, and information provided in the report are validated and revalidated with the help of trustworthy sources. The analysts who have authored the report took a unique and industry-best research and analysis approach for an in-depth study of the global Dye-sensitized Solar Cells (DSSC) market.

The following manufacturers are 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

Dye-sensitized Solar Cells (DSSC) Breakdown Data by Type

TiO₂

SnO₂

ZnO

Nb₂O

Others

Dye-sensitized Solar Cells (DSSC) Breakdown Data by Application

Portable Charging

BIPV/BAPV

Embedded Electronics

Others

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