

# Global Dye Sensitized Solar Cell Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Dye Sensitized Solar Cell market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

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 Cell (DSSC), a third generation photovoltaic technology has emerged as a subtle alternative for the contemporary Silicon based technology in terms of production and costing. Under the first phase of the project, PI has developed low cost purely organic dye molecules as a light harvesting material in dye solar cell. These dyes are easy to synthesize in laboratory as well in bulk without using precious metals either as catalyst or in dye itself.

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.

In term of conversion rate, the conversion rate is about 12-14% in the laboratory, small

batch production volume is about 6-8%, the conversion rate is too low, so almost all of the manufactures don't have batch production.

The Global Info Research report includes an overview of the development of the Dye Sensitized Solar Cell industry chain, the market status of Portable Charging (TiO<sub>2</sub>, SnO<sub>2</sub>), BIPV/BAPV (TiO<sub>2</sub>, SnO<sub>2</sub>), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Dye Sensitized Solar Cell.

Regionally, the report analyzes the Dye Sensitized Solar Cell markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Dye Sensitized Solar Cell market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Dye Sensitized Solar Cell market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Dye Sensitized Solar Cell industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MW), revenue generated, and market share of different by Type (e.g., TiO<sub>2</sub>, SnO<sub>2</sub>).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Dye Sensitized Solar Cell market.

**Regional Analysis:** The report involves examining the Dye Sensitized Solar Cell market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future

projections and forecasts for the Dye Sensitized Solar Cell market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Dye Sensitized Solar Cell:

**Company Analysis:** Report covers individual Dye Sensitized Solar Cell manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Dye Sensitized Solar Cell. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Portable Charging, BIPV/BAPV).

**Technology Analysis:** Report covers specific technologies relevant to Dye Sensitized Solar Cell. It assesses the current state, advancements, and potential future developments in Dye Sensitized Solar Cell areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Dye Sensitized Solar Cell market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Dye Sensitized Solar Cell market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

TiO<sub>2</sub>

SnO<sub>2</sub>

ZnO

Nb<sub>2</sub>O

Others

#### Market segment by Application

Portable Charging

BIPV/BAPV

Embedded Electronics

Others

#### Major players covered

Ricoh

Fujikura

3GSolar Photovoltaics

Greatcell Energy(Dyesol)

Exeger Sweden

Sony

Sharp Corporation

Pecell

Solaronix

Oxford PV

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Dye Sensitized Solar Cell product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Dye Sensitized Solar Cell, with price, sales, revenue and global market share of Dye Sensitized Solar Cell from 2019 to 2024.

Chapter 3, the Dye Sensitized Solar Cell competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Dye Sensitized Solar Cell breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Dye Sensitized Solar Cell market forecast, by regions, type and application,

with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Dye Sensitized Solar Cell.

Chapter 14 and 15, to describe Dye Sensitized Solar Cell sales channel, distributors, customers, research findings and conclusion.

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