

Dye Sensitized Cells (DSC) Market, Global Outlook and Forecast 2022-2028

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Abstracts

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.

This report contains market size and forecasts of Dye Sensitized Cells (DSC) in global, including the following market information:

Global Dye Sensitized Cells (DSC) Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Dye Sensitized Cells (DSC) Market Sales, 2017-2022, 2023-2028, (MW)

Global top five Dye Sensitized Cells (DSC) companies in 2021 (%)

The global Dye Sensitized Cells (DSC) market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

TiO₂ Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Dye Sensitized Cells (DSC) include Ricoh, Fujikura, 3GSolar Photovoltaics, Greatcell Energy(Dyesol), Exeger Sweden, Sony, Sharp Corporation, Peccell and Solaronix and etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Dye Sensitized Cells (DSC) manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Dye Sensitized Cells (DSC) Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (MW)

Global Dye Sensitized Cells (DSC) Market Segment Percentages, by Type, 2021 (%)

TiO₂

SnO₂

ZnO

Nb₂O

Others

Global Dye Sensitized Cells (DSC) Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (MW)

Global Dye Sensitized Cells (DSC) Market Segment Percentages, by Application, 2021 (%)

Portable Charging

BIPV/BAPV

Embedded Electronics

Others

Global Dye Sensitized Cells (DSC) Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (MW)

Global Dye Sensitized Cells (DSC) Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Dye Sensitized Cells (DSC) revenues in global market, 2017-2022
(Estimated), (\$ millions)

Key companies Dye Sensitized Cells (DSC) revenues share in global market, 2021 (%)

Key companies Dye Sensitized Cells (DSC) sales in global market, 2017-2022
(Estimated), (MW)

Key companies Dye Sensitized Cells (DSC) sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Ricoh

Fujikura

3GSolar Photovoltaics

Greatcell Energy(Dyesol)

Exeger Sweden

Sony

Sharp Corporation

Peccell

Solaronix

Oxford PV

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