

Global Dye Sensitized Cells (DSC) Market Growth 2023-2029

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Abstracts

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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.

LPI (LP Information)' newest research report, the "Dye Sensitized Cells (DSC) Industry Forecast" looks at past sales and reviews total world Dye Sensitized Cells (DSC) sales in 2022, providing a comprehensive analysis by region and market sector of projected Dye Sensitized Cells (DSC) sales for 2023 through 2029. With Dye Sensitized Cells (DSC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Dye Sensitized Cells (DSC) industry.

This Insight Report provides a comprehensive analysis of the global Dye Sensitized

Cells (DSC) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Dye Sensitized Cells (DSC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Dye Sensitized Cells (DSC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Dye Sensitized Cells (DSC) and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Dye Sensitized Cells (DSC).

The global Dye Sensitized Cells (DSC) market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Dye Sensitized Cells (DSC) is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Dye Sensitized Cells (DSC) is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Dye Sensitized Cells (DSC) is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Dye Sensitized Cells (DSC) players cover Ricoh, Fujikura, 3GSolar Photovoltaics, Greatcell Energy(Dyesol), Exeger Sweden, Sony, Sharp Corporation, Peccell and Solaronix, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth opportunities of Dye Sensitized Cells (DSC) market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by 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

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Ricoh

Fujikura

3GSolar Photovoltaics

Greatcell Energy(Dyesol)

Exeger Sweden

Sony

Sharp Corporation

Peccell

Solaronix

Oxford PV

Key Questions Addressed in this Report

What is the 10-year outlook for the global Dye Sensitized Cells (DSC) market?

What factors are driving Dye Sensitized Cells (DSC) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Dye Sensitized Cells (DSC) market opportunities vary by end market size?

How does Dye Sensitized Cells (DSC) break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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