

Global Concentrated Photovoltaic (CPV) Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

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Abstracts

Summary

Concentrated Photovoltaic (CPV) is a photovoltaic technology that generates electricity from sunlight. Contrary to conventional photovoltaic systems, it uses lenses and curved mirrors to focus sunlight onto small, but highly efficient, multi-junction (MJ) solar cells. In addition, CPV systems often use solar trackers and sometimes a cooling system to further increase their efficiency. Ongoing research and development is rapidly improving their competitiveness in the utility-scale segment and in areas of high insolation. This sort of solar technology can be thus used in smaller areas.

According to APO Research, The global Concentrated Photovoltaic (CPV) market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

North American market for Concentrated Photovoltaic (CPV) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Concentrated Photovoltaic (CPV) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Concentrated Photovoltaic (CPV) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Concentrated Photovoltaic (CPV) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Concentrated Photovoltaic (CPV) include Arzon Solar (Amonix), Isofoton S.A., Magpower, Semprius Inc., Soitec, Solar Junction, Silex, Suncore Photovoltaic and Sunpower Corporation, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

This report presents an overview of global market for Concentrated Photovoltaic (CPV), sales, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Concentrated Photovoltaic (CPV), also provides the sales of main regions and countries. Of the upcoming market potential for Concentrated Photovoltaic (CPV), and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Concentrated Photovoltaic (CPV) sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Concentrated Photovoltaic (CPV) market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Concentrated Photovoltaic (CPV) sales, projected growth trends, production technology, application and end-user industry.

Concentrated Photovoltaic (CPV) segment by Company

Arzon Solar (Amonix)

Isofoton S.A.

Magpower

Semprius Inc.

Soitec

Solar Junction

Silex

Suncore Photovoltaic

Sunpower Corporation

Zytech Solar

SolFocus

Concentrated Photovoltaic (CPV) segment by Type

LCPV

HCPV

Concentrated Photovoltaic (CPV) segment by Application

Commercial

Utility-Scale

Others

Concentrated Photovoltaic (CPV) segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global Concentrated Photovoltaic (CPV) status and future forecast, involving, sales, revenue, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, sales, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions Concentrated Photovoltaic (CPV) market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify Concentrated Photovoltaic (CPV) significant trends, drivers, influence factors in global and regions.
6. To analyze Concentrated Photovoltaic (CPV) competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries

and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Concentrated Photovoltaic (CPV) market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of Concentrated Photovoltaic (CPV) and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.

5. This report helps stakeholders to gain insights into which regions to target globally.

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Concentrated Photovoltaic (CPV).

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Provides an overview of the Concentrated Photovoltaic (CPV) market, including product definition, global market growth prospects, sales value, sales volume, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Concentrated Photovoltaic (CPV) industry.

Chapter 3: Detailed analysis of Concentrated Photovoltaic (CPV) manufacturers competitive landscape, price, sales and revenue market share, latest development plan,

merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Sales and value of Concentrated Photovoltaic (CPV) in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of each country in the world.

Chapter 7: Sales and value of Concentrated Photovoltaic (CPV) in country level. It provides sigma data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights.

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