

Global MOCVD Equipment for Solar Cell Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global MOCVD Equipment for Solar Cell market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

Metal-organic Chemical Vapor Deposition (MOCVD) is a method of growing semiconductor thin films on substrates.

It is expected that global demand for photovoltaic products will remain high in the next few years. According to our PV & Solar Research Center, by the end of 2022, the global cumulative installed photovoltaic power generation capacity is about 1180 GW. According to the data of China Photovoltaic Industry Association, the global newly installed photovoltaic capacity in 2022 is about 230 GW, and this number in 2023 is predicted to be 280-330 GW. According to the data of the Ministry of Industry and Information Technology, the total output value of China's photovoltaic industry exceeded 1.4 trillion yuan in 2022. From the perspective of production value, mainland China is still the global center of the PV industry. According to the International Energy Agency, China market share in all key products of the supply chain have exceeded 80%. Among them, the production capacity of silicon wafers, solar cells, and components accounts for as high as 98%, 85% and 77%, respectively. According to the data released by the European Photovoltaic Association, 27 EU countries gained a new PV installed capacity of 41.4 GW in 2022. According to the report of the US Solar Energy Industries Association (SEIA), the US held a new PV installed capacity of less than 19 GW in 2022. But it is estimated that from 2023, the average annual growth rate of new photovoltaic installed capacity will exceed 21%. In terms of Japan, based on data from Fitch and the US Energy Information Administration (EIA), in 2022, Japan's

newly installed photovoltaic capacity was 3.290 GW.

This report is a detailed and comprehensive analysis for global MOCVD Equipment for Solar Cell market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global MOCVD Equipment for Solar Cell market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global MOCVD Equipment for Solar Cell market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global MOCVD Equipment for Solar Cell market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global MOCVD Equipment for Solar Cell market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for MOCVD Equipment for Solar Cell
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global MOCVD Equipment for Solar Cell market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Aixtron, Annealsys, CETC48, Huaqi Technology, M. Watanabe, Masimo Semiconductor, Merconics, Nano-Master,

Shandong Liguang Microelectronics Equipment, SKY Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

MOCVD Equipment for Solar Cell market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

GaN-MOCVD

GaAs-MOCVD

Others

Market segment by Application

Traffic

Solar Building

Photovoltaic Power Station

Others

Major players covered

Aixtron

Annealsys

CETC48

Huaqi Technology

M. Watanabe

Masimo Semiconductor

Merconics

Nano-Master

Shandong Liguan Microelectronics Equipment

SKY Technology

SVCS Process Innovation

Tystar

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 MOCVD Equipment for Solar Cell product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MOCVD Equipment for Solar Cell, with price, sales quantity, revenue, and global market share of MOCVD Equipment for Solar Cell from 2020 to 2025.

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

Chapter 4, the MOCVD Equipment for Solar Cell breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and MOCVD Equipment for Solar Cell market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 MOCVD Equipment for Solar Cell.

Chapter 14 and 15, to describe MOCVD Equipment for Solar Cell sales channel, distributors, customers, research findings and conclusion.

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