

Global Metal Organic Chemical Vapor Deposition Market: Analysis By Application (Microelectronics, Data Storage, Solar Products, Cutting Tools, Medical Equipment, and Others), By Category (MOCVD Equipment, MOCVD Materials, and MOCVD Services), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2026

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# Global Metal Organic Chemical Vapor Deposition Market: Coverage

Executive Summary and Scope

Introduction/Market Overview

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Competitive Landscape

Company Profiling

# Global Metal Organic Chemical Vapor Deposition Market: Coverage

## Scope of the Report

Attributes	Details
Title	Global Metal Organic Chemical Vapor Deposition Market: Analysis By Application (Microelectronics, Data Storage, Solar Products, Cutting Tools, Medical Equipment, and Others), By Category (MOCVD Equipment, MOCVD Materials, and MOCVD Services), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2026
Coverage	Global and Regional
Market Influencing Variables	Growth Drivers, Challenges, Market Trends
Forecast Period of Market	2022-2026
Competition in the Market	Concentrated
Key Players	AIXTRON SE, Toshiba Corporation (NuFlare Technology Inc.), Veeco Instruments Inc., Nippon Sanso Holding Corporation (Taiyo Nippon Sanso Corporation), CVD Equipment Corporation, JUSUNG ENGINEERING Co. Ltd., Advanced Micro-Fabrication Equipment Inc. China, Agnitron Technology, Inc., Samco Inc., Nichia Corporation, Qingdao Jason Electric Co. Ltd., and Alliance MOCVD, LLC

# Global Metal Organic Chemical Vapor Deposition Market: Coverage

## Executive Summary

Metal organic chemical vapor deposition (MOCVD or MOVPE) is an epitaxial growth technique where metal organic precursors are introduced into a growth chamber at moderate pressures (10–100 Torr) resulting in epitaxial growth over a substrate held at high temperature. MOCVD is a widely used technique for various electronic, optoelectronic, piezoelectric, ferroelectric, and multiferroic materials. The global metal organic chemical vapor deposition market in 2021 was valued at US\$1.02 billion, and is likely to reach US\$1.86 billion by 2026, growing at a CAGR of 10.45% during the forecast period of 2022-2026.

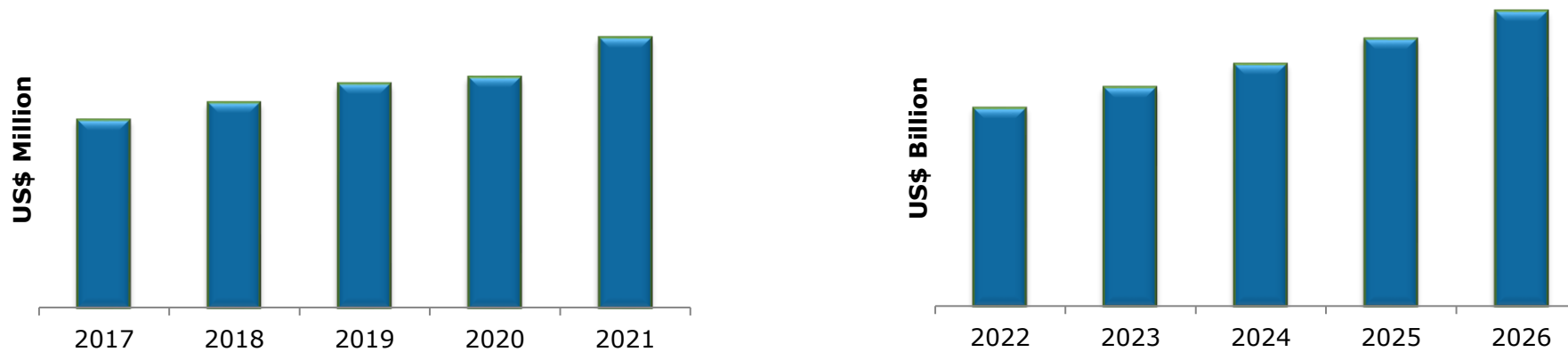
The metal organic chemical vapor deposition market can be segmented on the basis of application (microelectronics, data storage, solar products, cutting tools, medical equipment, and others), and by category (MOCVD Equipment, MOCVD Materials, and MOCVD Services). On the basis of application, microelectronic MOCVD segment held around 26.5% share in metal organic chemical vapor deposition market in 2021, owing to increasing adoption of microelectronics devices such as resistors, transistors, capacitors, inductors, diodes, and others in various industries across the globe. On the basis of category, MOCVD services is the fastest growing segment during the forecast period, due to the growing demand for advancement in technology in coming years.

The global metal organic chemical vapor deposition market benefited from the COVID-19 pandemic. Since MOCVD is used to grow semiconductors, its influence on semiconductor production has had a considerable market impact. Furthermore, the use of MOCVD as a basic material in solar cells and transistors resulted in some positive developments throughout the pandemic. Understanding the demand drivers for MOCVD end-applications would help assess the influence of COVID on the global MOCVD market. The market is expected to develop quicker in the next years as a result of changes brought about by the pandemic, such as increased semiconductor demand, reconfiguration of MOCVD firms' supply chains to improve robustness, and so on.

The global metal organic chemical vapor deposition market has increased in 2021 and projections are made that the market would rise in the next four years i.e. 2022-2026 tremendously. The surge in demand for consumer electronics is directly impacting the growth in MOCVD market, especially due to growth in demand for semiconductor market, which is a major end-user of MOCVD. yet the market faces some challenges such high cost associated, health concerns associated with MOCVD manufacturing, etc.

# Metal Organic Chemical Vapor Deposition Market: Global Analysis

## Global Metal Organic Chemical Vapor Deposition Market by Value



CAGRs	
2017-2021	xx%
2022-2026	xx%

The global metal organic chemical vapor deposition market valued at US\$... billion in 2021, increased as compared to US\$... billion in 2020. The market grew at a CAGR of ....%, during 2017-2021. Global metal organic chemical vapor deposition market is anticipated to reach up to US\$... billion by 2026, at a CAGR of ....%, from US\$... billion in 2022.

# Metal Organic Chemical Vapor Deposition Market: Global Analysis

Global Metal Organic Chemical Vapor Deposition Market by Application; 2021



Application	Share
Microelectronics	xx%
Data Storage	xx%
Solar Products	xx%
Cutting Tools	xx%
Medical Equipment	xx%
Others	xx%

Global Metal Organic Chemical Vapor Deposition Market by Category; 2021



Category	Share
MOCVD Equipment	xx%
MOCVD Material	xx%
MOCVD Services	xx%

# Metal Organic Chemical Vapor Deposition Market: Global Analysis

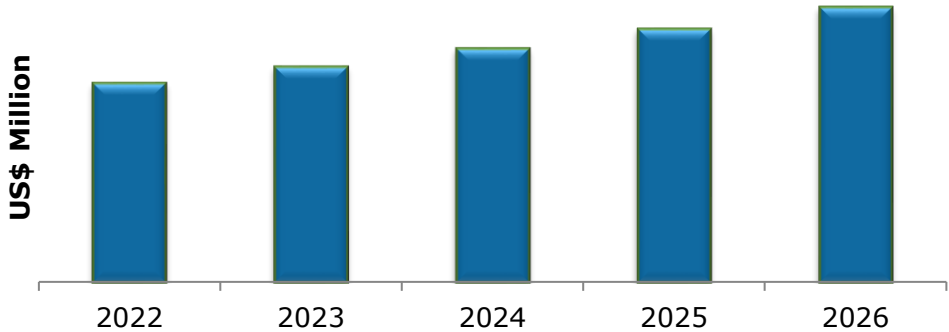
**Global Metal Organic Chemical Vapor Deposition Market by Region; 2021**



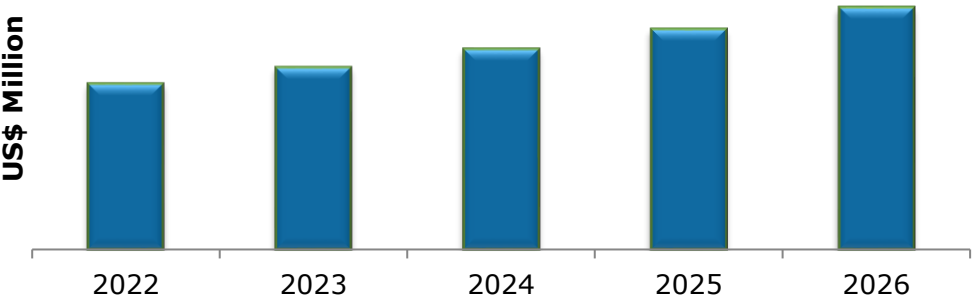
Region	Share
Asia Pacific	xx%
Europe	xx%
North America	xx%
Latin America	xx%
Middle East & Africa	xx%

# Global Metal Organic Chemical Vapor Deposition Market: Application Analysis

**Global Microelectronics Metal Organic Chemical Vapor Deposition Market by Value**



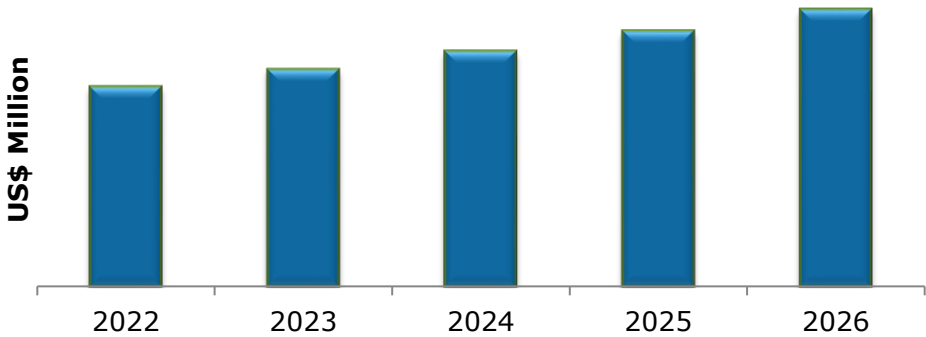
**Global Data Storage Metal Organic Chemical Vapor Deposition Market by Value**



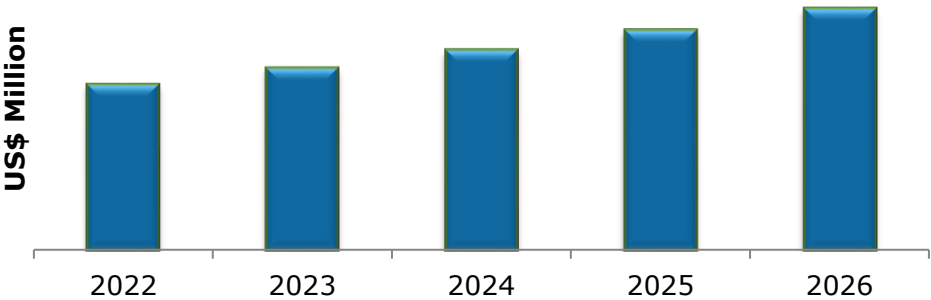
Equipment	CAGRs	
	(2017-2021)	(2022-2026)
Microelectronics	xx%	xx%
Data Storage	xx%	xx%
Solar Products	xx%	xx%
Cutting Tools	xx%	xx%
Medical Equipment	xx%	xx%
Others	xx%	xx%

# Global Metal Organic Chemical Vapor Deposition Market: Category Analysis

**Global Metal Organic Chemical Vapor Deposition Equipment Market by Value**



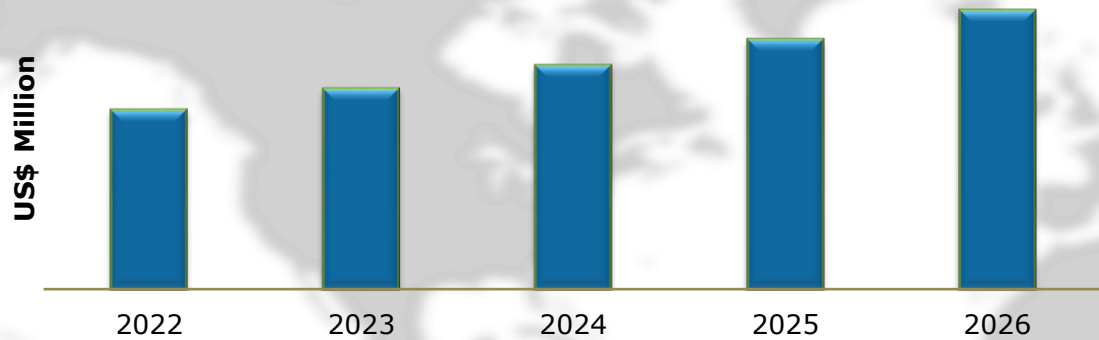
**Global Metal Organic Chemical Vapor Deposition Material Market by Value**



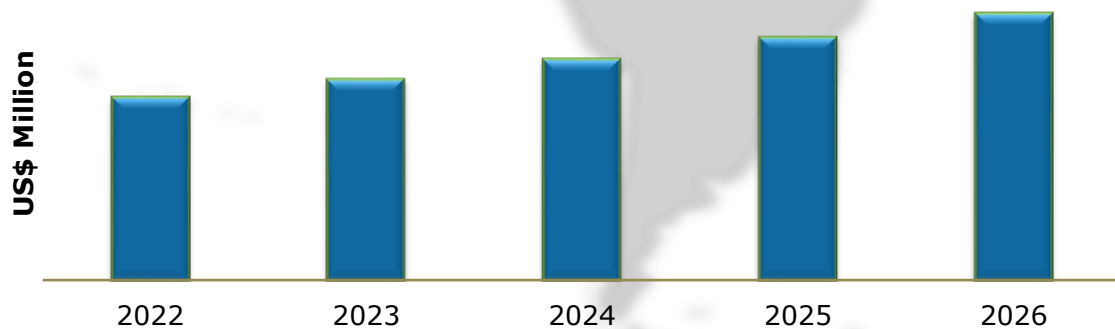
Category	CAGRs	
	(2017-2021)	(2022-2026)
MOCVD Equipment	xx%	xx%
MOCVD Material	xx%	xx%
MOCVD Services	xx%	xx%

# Metal Organic Chemical Vapor Deposition Market: Regional Analysis

Asia Pacific Metal Organic Chemical Vapor Deposition Market by Value



Europe Metal Organic Chemical Vapor Deposition Market by Value



Region	CAGRs	
	(2017-2021)	(2022-2026)
Asia Pacific	xx%	xx%
Europe	xx%	xx%
North America	xx%	xx%
Latin America	xx%	xx%
Middle East & Africa	xx%	xx%

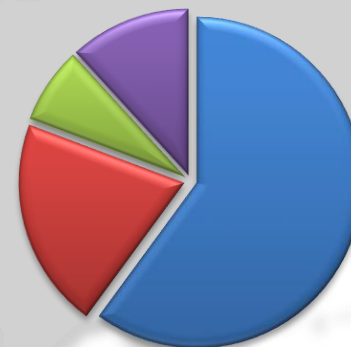
# Asia Pacific Metal Organic Chemical Vapor Deposition Market: Analysis

Asia Pacific Metal Organic Chemical Vapor Deposition Market by Application; 2021



Application	Share	CAGRs	
		(2017-2021)	(2022-2026)
Microelectronics	xx%	xx%	xx%
Data Storage	xx%	xx%	xx%
Medical Equipment	xx%	xx%	xx%
Solar Products	xx%	xx%	xx%
Cutting Tools	xx%	xx%	xx%
Others	xx%	xx%	xx%

Asia Pacific Metal Organic Chemical Vapor Deposition Market by Region; 2021



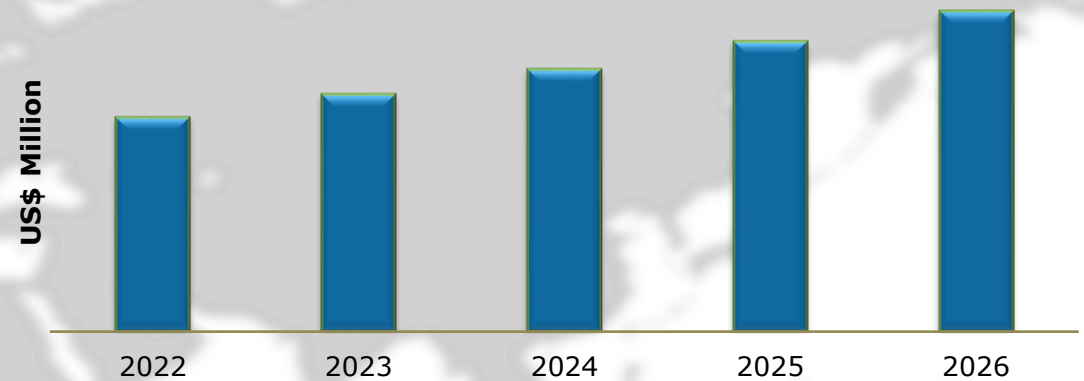
Region	Share	CAGRs	
		(2017-2021)	(2022-2026)
China	xx%	xx%	xx%
Japan	xx%	xx%	xx%
South Korea	xx%	xx%	xx%
Rest of Asia Pacific	xx%	xx%	xx%

# Europe Metal Organic Chemical Vapor Deposition Market: Analysis

Europe Metal Organic Chemical Vapor Deposition Market by Region; 2021



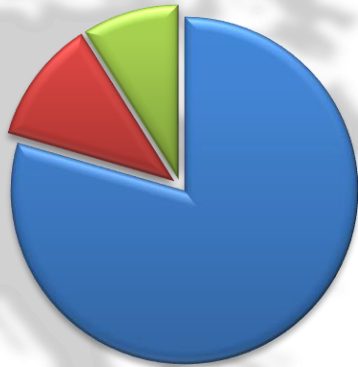
Germany Metal Organic Chemical Vapor Deposition Market by Value



Region	Share	CAGRs	
		(2017-2021)	(2022-2026)
Germany	xx%	xx%	xx%
Italy	xx%	xx%	xx%
UK	xx%	xx%	xx%
France	xx%	xx%	xx%
Rest of Europe	xx%	xx%	xx%

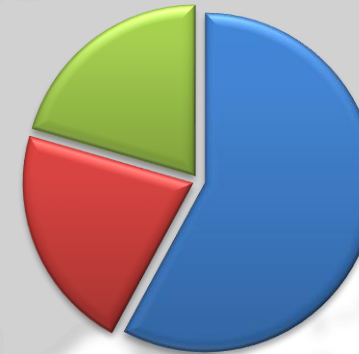
# North America Metal Organic Chemical Vapor Deposition Market: Analysis

North America Metal Organic Chemical Vapor Deposition Market by Region; 2021



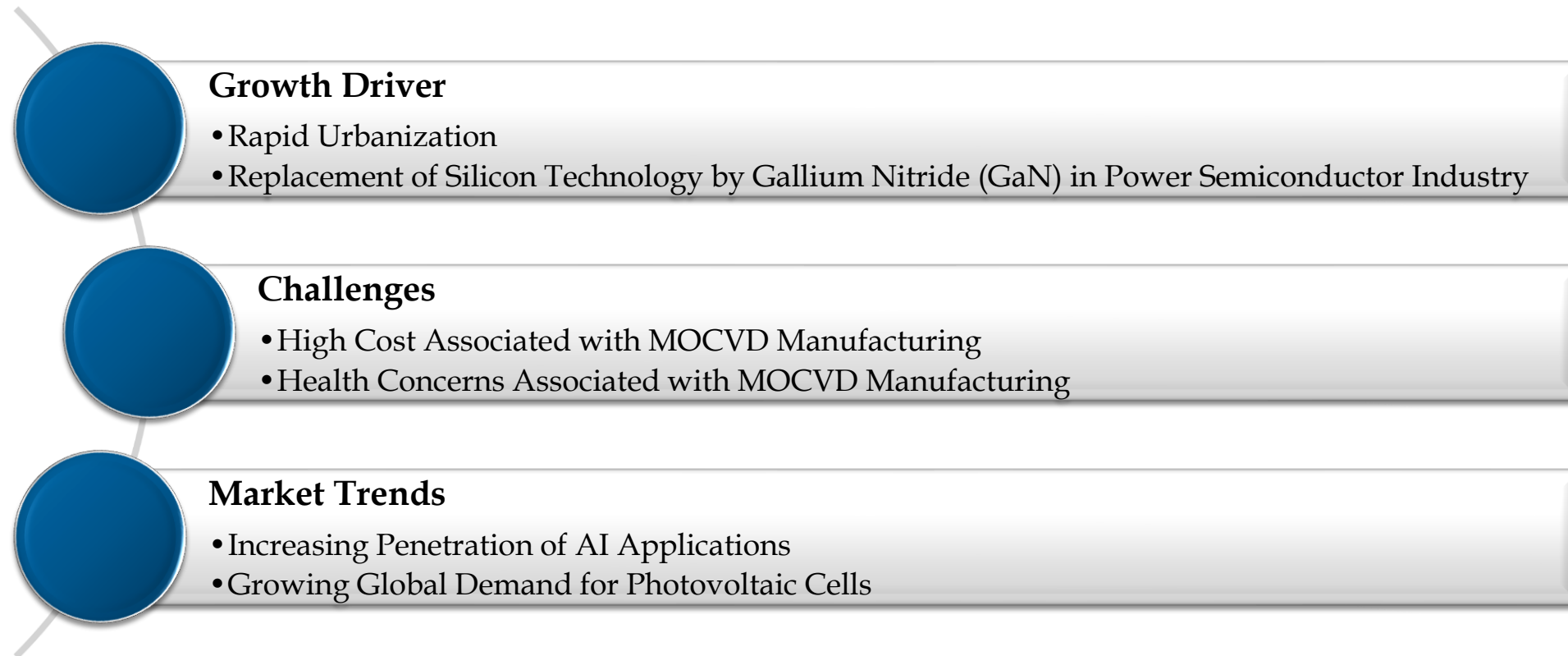
Region	Share	CAGRs	
		(2017-2021)	(2022-2026)
The US	xx%	xx%	xx%
Canada	xx%	xx%	xx%
Mexico	xx%	xx%	xx%

The US Metal Organic Chemical Vapor Deposition Market by Category; 2021



Category	Share	CAGRs	
		(2017-2021)	(2022-2026)
MOCVD Equipment	xx%	xx%	xx%
MOCVD Services	xx%	xx%	xx%
MOCVD Material	xx%	xx%	xx%

# Global Metal Organic Chemical Vapor Deposition Market: Dynamics



# Global Metal Organic Chemical Vapor Deposition Market: Competitive Landscape

## Players Profiled

- AIXTRON SE,
- Toshiba Corporation (NuFlare Technology Inc.),
- Veeco Instruments Inc.,
- Nippon Sanso Holding Corporation (Taiyo Nippon Sanso Corporation),
- CVD Equipment Corporation,
- JUSUNG ENGINEERING Co. Ltd.,
- Advanced Micro-Fabrication Equipment Inc. China,
- Agnitron Technology Inc.,
- Samco Inc.,
- Nichia Corporation,
- Qingdao Jason Electric Co. Ltd.,
- Alliance MOCVD, LLC

## Top Players by Market Share; 2016- 2021 (Percentage,%)

