

# Global Epitaxial Growth Equipment for SiC and GaN Market Growth 2024-2030

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## Abstracts

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According to our LPI (LP Information) latest study, the global Epitaxial Growth Equipment for SiC and GaN market size was valued at US\$ 907 million in 2023. With growing demand in downstream market, the Epitaxial Growth Equipment for SiC and GaN is forecast to a readjusted size of US\$ 1503.7 million by 2030 with a CAGR of 7.5% during review period.

The research report highlights the growth potential of the global Epitaxial Growth Equipment for SiC and GaN market. Epitaxial Growth Equipment for SiC and GaN are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Epitaxial Growth Equipment for SiC and GaN. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Epitaxial Growth Equipment for SiC and GaN market.

Epitaxial growth is used today for siliconbased devices as well as in the III-V compound semiconductor industry. This demand is expected to increase and strongly driven by microLEDs, power devices and laser diode applications.

In terms of semiconductor substrate, GaN material represents the major epitaxy market after silicon substrates, mostly driven by the traditional LED GaN-devices.

On the other hand, wide band gap materials like SiC substrates have found opportunities in the power electronics market. Despite the high market price of SiC,

such substrates are a strong asset for high-voltage applications, and thus are considered as a technology choice for some MOSFET and diode products.

The Global Epitaxial Growth Equipment for SiC and GaN market comprises a wide range of products suitable for use within the Global domestic market. In order to quantify and analyse the market, our definition of the market includes the following key product sectors:

This report specifically excludes labour and measures the product values at manufacturers selling prices. value-added tax, import duties and transportation fees are excluded as well as labour other delivery charges. Whilst we have made every effort to exclude commercial applications, there may be some light commercial applications included within the overall market sizes quoted.

Where volume figures are illustrated for the overall market, these are provided as number of sales. The geographical coverage for this report is the Global and includes domestically manufactured and imported products.

Global key players of Epitaxial Growth Equipment for SiC and GaN include NuFlare Technology Inc., Tokyo Electron Limited, NAURA and VEECO, etc. The top four players hold a share about 60%. China is the largest market, has a share about 40%. In terms of product type, CVD is the largest segment, occupied for a share of about 50%, and in terms of application, SiC Epitaxy has a share about 60 percent.

#### Key Features:

The report on Epitaxial Growth Equipment for SiC and GaN market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Epitaxial Growth Equipment for SiC and GaN market. It may include historical data, market segmentation by Type (e.g., CVD, MOCVD), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Epitaxial Growth Equipment for SiC and GaN market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Epitaxial Growth Equipment for SiC and GaN market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Epitaxial Growth Equipment for SiC and GaN industry. This include advancements in Epitaxial Growth Equipment for SiC and GaN technology, Epitaxial Growth Equipment for SiC and GaN new entrants, Epitaxial Growth Equipment for SiC and GaN new investment, and other innovations that are shaping the future of Epitaxial Growth Equipment for SiC and GaN.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the Epitaxial Growth Equipment for SiC and GaN market. It includes factors influencing customer ' purchasing decisions, preferences for Epitaxial Growth Equipment for SiC and GaN product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Epitaxial Growth Equipment for SiC and GaN market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Epitaxial Growth Equipment for SiC and GaN market. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Epitaxial Growth Equipment for SiC and GaN market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Epitaxial Growth Equipment for SiC and GaN industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Epitaxial Growth Equipment for SiC and GaN market.

## Market Segmentation:

Epitaxial Growth Equipment for SiC and GaN market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Segmentation by type

CVD

MOCVD

Others

### Segmentation by application

SiC Epitaxy

GaN Epitaxy

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.

NuFlare Technology Inc.

Tokyo Electron Limited

NAURA

VEECO

Taiyo Nippon Sanso

Aixtron

Advanced Micro-Fabrication Equipment Inc. China (AMEC?)

ASM International

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Epitaxial Growth Equipment for SiC and GaN market?

What factors are driving Epitaxial Growth Equipment for SiC and GaN market growth, globally and by region?

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

How do Epitaxial Growth Equipment for SiC and GaN market opportunities vary by end market size?

How does Epitaxial Growth Equipment for SiC and GaN break out type, application?

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