

Global Photovoltaic Granular Silicon Materials Market Growth 2025-2031

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Abstracts

The global Photovoltaic Granular Silicon Materials market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of % from 2025 to 2031.

Photovoltaic granular silicon is a kind of granular polycrystalline silicon for photovoltaics with an average particle size of about 1-2 mm, which is produced by chemical vapor deposition in a fluidized bed. Compared with the Siemens method, the FBR granular silicon technology has three advantages: low energy consumption, continuous production, and no need for crushing.

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 3.152 GW.

LP Information, Inc. (LPI) ' newest research report, the "Photovoltaic Granular Silicon Materials Industry Forecast" looks at past sales and reviews total world Photovoltaic Granular Silicon Materials sales in 2024, providing a comprehensive analysis by region and market sector of projected Photovoltaic Granular Silicon Materials sales for 2025 through 2031. With Photovoltaic Granular Silicon Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Photovoltaic Granular Silicon Materials industry.

This Insight Report provides a comprehensive analysis of the global Photovoltaic Granular Silicon Materials 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 Photovoltaic Granular Silicon Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Photovoltaic Granular Silicon Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photovoltaic Granular Silicon Materials 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 Photovoltaic Granular Silicon Materials.

This report presents a comprehensive overview, market shares, and growth opportunities of Photovoltaic Granular Silicon Materials market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Silane Fluidized Bed Process

Trichlorosilane Fluidized Bed Process

Segmentation by Application:

Photovoltaic Power Plants

Household Distributed Photovoltaic Small Equipment

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 analysing the company's coverage, product portfolio, its market penetration.

GCL Technology Holdings Limited

MEMC

REC Asimi

Wacker Chemie AG

Shaanxi Non-Ferrous Tian Hong REC Silicon Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Photovoltaic Granular Silicon Materials

market?

What factors are driving Photovoltaic Granular Silicon Materials market growth, globally and by region?

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

How do Photovoltaic Granular Silicon Materials market opportunities vary by end market size?

How does Photovoltaic Granular Silicon Materials break out by Type, by Application?

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