

Global Photovoltaic Greenhouse Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photovoltaic Greenhouse market size is expected to reach \$ 5880 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032). A photovoltaic greenhouse is an integrated agricultural facility that combines a solar power generation system with greenhouse agricultural production. By arranging photovoltaic modules on the greenhouse roof or structure, it generates electricity while meeting the crop's light requirements. This model achieves multi-use of land, improves energy efficiency, and provides a stable power supply for agricultural production, aligning with the development direction of sustainable and low-carbon agriculture. Its upstream industry chain includes photovoltaic modules, support systems, inverters, greenhouse materials, and control equipment; the midstream covers system design, engineering integration, construction, and grid connection; and the downstream primarily serves agricultural producers, modern agricultural parks, and agricultural operators, providing supporting operation and maintenance, energy management, and crop cultivation optimization services. The industry's gross profit margin is typically between 30% and 45%.

China has implemented the Renewable Energy Law since 2006, in which Article 4 clearly states that, the State gives first priority to the exploration of renewable energy. Over the years, various departments of the Chinese government have successively issued a large number of policies, covering production, sales, taxation, subsidies and other aspects. After setting the carbon neutrality goal in 2021, from a national perspective, the upgrading of the energy structure is ever imperative, and therefore the optoelectronic industry has great potential. The European Commission released the Net-Zero Industry Act in 2023. This bill aims to stimulate local manufacturing in Europe, reduce import dependence on China, and ensure that at least 40% of the EU's clean energy demand can be met by 2030. The EU targets an installed solar capacity of 600 GW. Overall, the European market still has a lot of room for development. US 2022

release of the Inflation Reduction Act, which includes \$369 billion for energy security and climate change investments. For the photovoltaic industry, the bill stimulates its development from multiple aspects such as corporate and individual tax credits, production subsidies, and loans throughout the industry chain, and revitalizes the domestic manufacturing industry in the United States. Japanese authorities plan to make solar panels mandatory for new residential buildings in Tokyo from 2025 onwards. It is estimated that by 2030, photovoltaic power generation will account for 14%-16% of Japan's total power generation, and the cumulative installed capacity of photovoltaic systems will be about 117.84 GW.

This report studies the global Photovoltaic Greenhouse demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic Greenhouse, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Photovoltaic Greenhouse that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Photovoltaic Greenhouse total market, 2021-2032, (USD Million)

Global Photovoltaic Greenhouse total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Photovoltaic Greenhouse total market, key domestic companies, and share, (USD Million)

Global Photovoltaic Greenhouse revenue by player, revenue and market share 2021-2026, (USD Million)

Global Photovoltaic Greenhouse total market by Type, CAGR, 2021-2032, (USD Million)

Global Photovoltaic Greenhouse total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Photovoltaic Greenhouse market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include OPUS ET VITA, Eneria, Richel, Polysolar, Urbasolar, Meeco, Reden Solar, Gakon Netafim, METALSISTEM, Akuo Energy, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Photovoltaic Greenhouse market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years

2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Photovoltaic Greenhouse Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic Greenhouse Market, Segmentation by Type:

Rooftop PV Greenhouse

Semi-Transparent PV Greenhouse

PV Shading Greenhouse

Global Photovoltaic Greenhouse Market, Segmentation by Energy Utilization Mode:

Grid-Connected PV Greenhouse

Off-Grid PV Greenhouse

PV + Energy Storage Greenhouse

Global Photovoltaic Greenhouse Market, Segmentation by Greenhouse Type:

Glass PV Greenhouse

PC Sheet PV Greenhouse

Film-type PV Greenhouse

Global Photovoltaic Greenhouse Market, Segmentation by Application:

Vegetables

Fruits

Flowers

Others

Companies Profiled:

OPUS ET VITA

Eneria

Richel

Polysolar

Urbasolar

Meeco

Reden Solar

Gakon Netafim

METALSISTEM

Akuo Energy

Ininsa

DAS Energy

Solar Innova

Artigianfer France

Promisteel

Ceres

Key Questions Answered

1. How big is the global Photovoltaic Greenhouse market?
2. What is the demand of the global Photovoltaic Greenhouse market?
3. What is the year over year growth of the global Photovoltaic Greenhouse market?
4. What is the total value of the global Photovoltaic Greenhouse market?
5. Who are the Major Players in the global Photovoltaic Greenhouse market?
6. What are the growth factors driving the market demand?

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