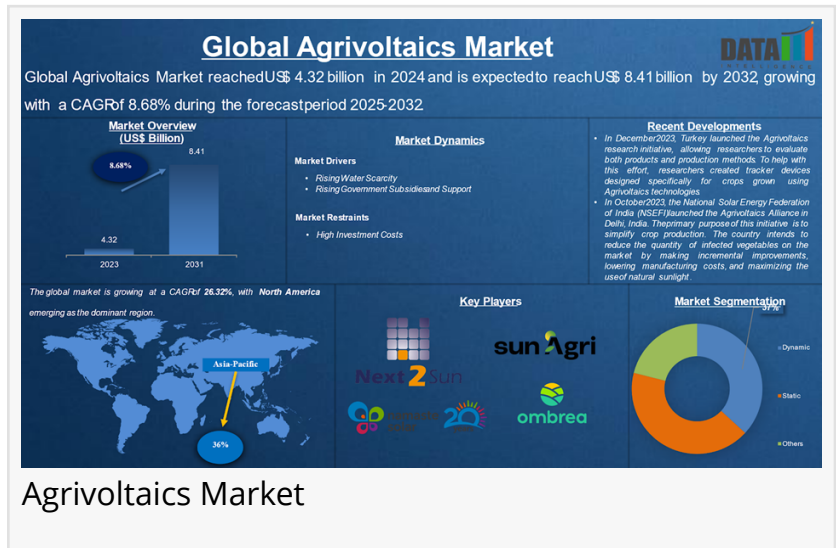


Agrivoltaics Market is expected to reach US\$ 8.41 billion by 2032 | DataM Intelligence

The Global Agrivoltaics Market is expected to reach at a CAGR of 8.68% during the forecast period 2025-2032.

AUSTIN, TX, UNITED STATES, February 17, 2026 /EINPresswire.com/ -- Market Overview:

The [Agrivoltaics Market](#) is emerging as a revolutionary intersection of agriculture and solar energy, offering a dual-purpose solution that maximizes land use while promoting sustainable energy production. Agrivoltaics, also known as agrophotovoltaics, involves installing photovoltaic panels over agricultural fields, allowing crops to grow beneath the solar structures. This innovative approach not only enables farmers to generate renewable energy but also provides microclimate benefits that can improve crop yield and water efficiency. The rising global focus on



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The Agrivoltaics Market grows as solar integration with agriculture boosts energy and crop yields, driving innovation, sustainability, and investment globally.”

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renewable energy adoption, climate change mitigation, and food security has significantly propelled the demand for agrivoltaic systems across diverse agricultural landscapes.

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According to DataM Intelligence, The Global Agrivoltaics Market was valued at approximately USD 4.32 billion in

2024 and is projected to reach USD 8.41 billion by 2032, growing at a CAGR of 8.68% during the forecast period. The market growth is primarily driven by government incentives for renewable energy, increasing solar capacity installations, and the need for sustainable farming practices. Among product types, fixed-tilt solar panels dominate due to their cost-effectiveness and ease of installation. Geographically, Europe leads the market, with countries like Germany, France, and Italy spearheading adoption due to favorable policies, high solar irradiation, and extensive

research in agrivoltaic technology.

Key Highlights from the Report:

The Global Agrivoltaics Market is expected to witness rapid adoption due to rising renewable energy initiatives.

Fixed-tilt solar panel systems dominate the product type segment.

Europe is the leading regional market, driven by government incentives and R&D initiatives.

Rising awareness of sustainable agriculture practices is boosting market growth.

Increasing land scarcity is pushing the adoption of dual-use land solutions.

The integration of IoT and smart farming technologies enhances system efficiency.

Market Segmentation:

The Agrivoltaics Market is segmented based on product type, system design, and end-user applications. In terms of product type, the market primarily includes fixed-tilt solar panels and tracking solar panels, with fixed-tilt systems accounting for the largest share due to their simple design and lower installation costs. Tracking systems, however, are gaining traction for high-efficiency applications where maximizing energy output is critical.

End-user segmentation includes crop farming, horticulture, and livestock farming. Crop farming holds the largest market share as agrivoltaic installations help optimize sunlight distribution for sensitive crops while generating electricity. Horticulture benefits from the microclimate effect under solar panels, which can improve plant growth and reduce water consumption. Livestock farms are gradually adopting agrivoltaics to provide shaded grazing areas while producing renewable energy.

System design segmentation includes row-mounted, elevated structures, and canopy-style installations. Elevated structures and canopy-style systems are preferred for crops requiring high vertical clearance, whereas row-mounted systems are widely used in conventional crop fields for their cost efficiency.

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Regional Insights:

Europe remains the dominant region in the agrivoltaics market due to progressive policies promoting renewable energy, high government subsidies, and active research collaborations between universities and energy companies. Germany and France are the frontrunners, investing in pilot projects and large-scale agrivoltaic farms. Asia-Pacific is emerging rapidly, with Japan and China leading the adoption due to limited arable land, high solar potential, and supportive government initiatives. North America shows steady growth, with the United States

investing in agrivoltaic research to integrate solar energy into large-scale farming operations. The Middle East & Africa region is gradually exploring agrivoltaics, primarily driven by solar-rich areas and increasing focus on sustainable agriculture in arid climates.

Market Dynamics:

Market Drivers: The agrivoltaics market is fueled by the global push toward renewable energy and sustainable agriculture. Increasing electricity demand, declining solar module costs, and government incentives for solar installations create favorable conditions for market growth. Moreover, agrivoltaic systems improve water retention, reduce soil erosion, and provide partial shading for crops, enhancing productivity in regions experiencing climate variability.

Market Restraints: High initial installation costs, complex system design requirements, and limited awareness among farmers pose challenges. Additionally, integrating solar panels without affecting crop yield requires careful planning and technical expertise, which may slow adoption in developing regions.

Market Opportunities: The growing trend of smart agriculture and precision farming provides significant opportunities for agrivoltaics. Integration with IoT devices and AI-powered monitoring can optimize energy generation and crop management. Expanding urban agriculture and vertical farming applications also open new avenues for deploying agrivoltaic systems in space-constrained environments.

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Frequently Asked Questions (FAQs):

How big is the Global Agrivoltaics Market?

Who are the key players in the agrivoltaics market?

What is the projected growth rate of the agrivoltaics market through 2032?

What are the key market drivers for agrivoltaics adoption?

Which region is estimated to dominate the agrivoltaics industry during the forecast period?

Company Insights:

Key players operating in the Agrivoltaics Market include:

Next2Sun Technology GmbH

SunAgri

Ombrea

Namaste Solar

Mirai Solar

SunSeed APV Private Limited
Enel Green Power Spa
JA Solar Holdings Co. Ltd.
BayWa AG
Insolight SA.

Recent Developments:

United States:

January 2026: Pivot Energy highlighted leading agrivoltaic practices in its 2025 year-in-review, focusing on new partnerships and community impacts amid policy shifts, building on Midwest and other regional deployments.

December 2025: Sol Systems reported a breakthrough year at projects like Prairie Creek and Eldorado, launching sheep grazing for vegetation management and planting Kernza perennial grain, one of the largest row-crop agrivoltaics sites, enhancing soil health and local revenue.

November 2025: The U.S. Department of Energy awarded \$20 million to scale agrivoltaic pilots in the Midwest, supporting projects that combine corn and soy farming with vertical bifacial solar panels to prove economic viability in the breadbasket region.

Japan:

December 2025: A dual-axis sun-tracking agrivoltaics pilot demonstrated competitive solar power alongside high-quality rice yields, promoting rural adoption to meet Japan's 2030 solar goals while preserving food production.

December 2025: Takamiya Co., Ltd. launched a vertical mounting system designed for Japanese rice paddies, minimizing ground footprint to enable rice transplanters while generating extra farmer income from electricity sales.

November 2025: Japan's Ministry of Agriculture, Forestry and Fisheries (MAFF) relaxed farmland conversion rules for agrivoltaics, allowing easier solar panel installations without losing agricultural tax status and accelerating "Solar Sharing" adoption.

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Conclusion:

The Agrivoltaics Market represents a transformative opportunity for sustainable development by combining agriculture with solar energy production. With strong growth projected over the next decade, driven by government incentives, technological advancements, and the need for efficient land use, agrivoltaics is poised to become a mainstream solution in the renewable

energy and agricultural sectors. As more stakeholders invest in innovative designs and smart farming integrations, the market is set to expand globally, offering both environmental and economic benefits to farmers, energy producers, and society at large.

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