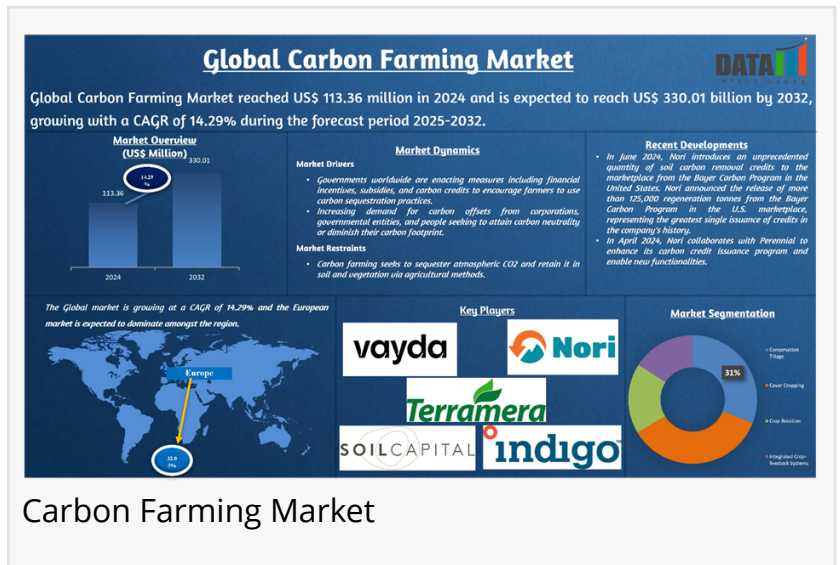


Carbon Farming Market to Reach US\$ 330.01 Bn by 2032 | Opportunities in Climate-Smart Agriculture | DataM Intelligence

Carbon farming is set to grow from US\$113.36M in 2024 to US\$330.01B by 2032, driven by 14.29% CAGR marking agriculture's key role in global climate solutions.

AUSTIN, TX, UNITED STATES, June 23, 2025 /EINPresswire.com/ -- The [carbon farming market](#) was valued at approximately US\$113.36 million in 2024 and is projected to surge to around US\$330.01 billion by 2032, growing at a compound annual growth rate (CAGR) of 14.29% between 2025 and 2032. This impressive growth reflects a major shift in agriculture from being a contributor to greenhouse gas emissions to becoming a key part of climate solutions.



Carbon Farming Market

Carbon farming encompasses techniques such as no-till farming, agroforestry, cover cropping, biochar application, and improved grazing management. These practices work to pull carbon dioxide from the atmosphere and store it in soils, plants, and trees. Beyond climate benefits, these methods often enhance soil health, boost crop yields, and reduce dependency on chemical fertilizers.

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DataM Intelligence

To Download Sample Report:

<https://www.datamintelligence.com/download-sample/carbon-farming-market>

Growth Drivers & Key Trends

Consumers are increasingly seeking food products with smaller environmental footprints. Carbon farming helps producers meet this demand by adopting climate-smart agriculture practices.

Corporate and Government Initiatives

Both corporations and governments worldwide are offering incentives and launching programs to promote carbon farming, recognizing its role in achieving climate targets.

Emerging Carbon Markets

Soil and land-based carbon credits are becoming more accepted in both voluntary and compliance carbon markets, allowing farmers to monetize their sustainable practices.

Technological Advancements

AI, satellite imagery, and blockchain are making it easier to verify carbon sequestration efforts, increasing transparency and scalability across the market

Recent Developments:

In June 2024, Nori introduced a record volume of soil carbon removal credits to the market through the Bayer Carbon Program in the U.S. The company announced the issuance of over 125,000 regeneration tonnes, the largest single release of credits in Nori's history. This milestone significantly expands Nori's carbon removal supply and marks a major contribution to the soil organic carbon sector.

Earlier, in April 2024, Nori partnered with Perennial to advance its carbon credit issuance program and introduce new capabilities. As a leading issuer, registry, and marketplace for carbon removal credits, Nori selected Perennial, a specialist in soil carbon standards, tools, and technologies to support the continued development and scaling of its soil organic carbon credit issuance efforts.

Regional Insights

North America:

The U.S. market shows a strong interest in carbon farming but faces adoption challenges due to regulatory uncertainties, costs, and complex verification processes. Farmers are cautiously exploring opportunities as the market matures.

Europe:

Europe leads with robust government support and policies like the European Green Deal. Farmers across the continent are actively adopting carbon farming to meet sustainability goals and generate new income streams.

Asia Pacific (especially Japan):

Japan is emerging as a leader in carbon farming with significant government backing, financial incentives, and advanced carbon-credit market infrastructure. The region is also pioneering innovative approaches like blue carbon through coastal restoration.

Other Regions:

Interest in carbon farming is growing in Latin America, Africa, and the Middle East. Countries like India are preparing for national carbon trading schemes, setting the stage for long-term market development.

Leading Companies

Vayda

Terramera Inc

Indigo Ag

Nori

Soil Capital

Agoro Carbon Alliance

Carbon Sequestration Inc.

Regen Network

Agreena

Rabo Carbon Bank

Market Segmentation:

By Project Type: Agroforestry, Biochar, Silvopasture, Soil Carbon Sequestration, Afforestation/ Reforestation.

By Practice Type: Conservation Tillage, Cover Cropping, Crop Rotation, Integrated Crop-livestock Systems.

By End-user: Farmers & Ranchers, Corporations, Government Agencies, Non-profit Organizations.

By Region: North America, South America, Europe, Asia-Pacific, Middle East and Africa.

Latest News – USA

The U.S. carbon farming landscape is evolving but remains somewhat fragmented. Although many farmers are eager to adopt climate-smart practices, only a small percentage have secured carbon farming contracts so far. The main obstacles include unclear regulatory frameworks, high costs for verification and reporting, and concerns about the profitability of these initiatives.

A significant development occurred recently when a \$3 billion government program designed to promote climate-smart agriculture was halted. The program faced criticism over administrative inefficiencies and the challenge of ensuring that funds directly benefit farmers. Industry watchers expect that future programs will place greater emphasis on delivering practical support and income opportunities for growers.

Despite these challenges, technological innovation is advancing rapidly in the U.S. market. AI-driven tools, remote sensing, and blockchain-based verification systems are being developed to simplify the process, reduce overheads, and help farmers confidently participate in the carbon economy.

Latest News – Japan

Japan is positioning itself at the forefront of carbon farming and climate-smart agriculture. The government has committed significant resources, pledging up to US\$70 billion in climate finance with a strong emphasis on nature-based solutions. A major milestone has been the creation of a state-of-the-art carbon exchange platform, offering 24/7 trading of various carbon credits, including those from agriculture.

Private-sector initiatives are also accelerating. Prominent corporations have launched joint ventures focused on afforestation and sustainable land use. In parallel, new pilot programs are testing and refining carbon farming methodologies tailored to Japan's unique agricultural conditions. These efforts are helping local farmers adopt best practices while generating valuable carbon credits for national and international markets.

Another innovative area gaining momentum in Japan is blue carbon. Recent projects include community-led efforts to plant eelgrass and restore coastal ecosystems, further expanding the role of nature-based solutions in the country's climate strategy.

Final Thoughts

Carbon farming is transforming agriculture into a vital part of the global climate solution. As farmers, corporations, and governments continue to align their efforts, the market is poised to become an essential component of sustainable food systems worldwide. With the right mix of technology, incentives, and policies, carbon farming offers a promising pathway toward a more

resilient and climate-friendly agricultural future.

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