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Agricultural Carbon Credit Market Forecasts to 2034 – Global Analysis By Credit Type (Soil Carbon Credits, Agroforestry Carbon Credits, Methane Reduction Credits, Regenerative Agriculture Credits and Other Credit Types), Farming Practice, Platform Type, Application, End User, and By Geography

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Abstracts

According to Stratistics MRC, the Global Agricultural Carbon Credit Market is accounted for $3.8 billion in 2026 and is expected to reach $22.5 billion by 2034 growing at a CAGR of 25% during the forecast period. Agricultural carbon credit systems allow farmers and agricultural businesses to earn tradable credits by adopting practices that reduce greenhouse gas emissions or increase carbon sequestration. Activities such as regenerative farming, reduced tillage, cover cropping, agroforestry, and soil carbon management contribute to measurable carbon reductions. These credits can then be sold to organizations seeking to offset their emissions. Agricultural carbon markets encourage sustainable land management while creating additional revenue opportunities for farmers. Increasing global focus on climate action, net-zero goals, and sustainable agriculture is driving growth in agricultural carbon credit initiatives and verification frameworks.

Market Dynamics:

Driver:

Rising carbon neutrality initiatives

Governments and corporations are increasingly committing to net-zero targets. Farmers

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are adopting sustainable practices to generate carbon credits. Agricultural carbon credits provide financial incentives for climate-friendly farming. Awareness campaigns are promoting the benefits of carbon-neutral agriculture. Partnerships between agritech firms and carbon trading platforms are expanding.

Restraint:

Limited farmer participation awareness

A major restraint is the limited awareness among farmers regarding participation in carbon credit programs. Many farmers lack knowledge about eligibility and processes. Complex documentation requirements discourage small-scale farmers. Limited access to training and advisory services slows adoption. Rural infrastructure gaps hinder participation in carbon markets. Governments and NGOs are working to improve awareness through outreach programs.

Opportunity:

Blockchain-enabled carbon tracking systems

Blockchain ensures transparency and traceability of carbon credits. Farmers can securely record and verify sustainable practices. Digital platforms simplify participation in carbon markets. Partnerships between blockchain firms and agricultural companies are driving innovation. Affordable blockchain solutions can attract small and mid-sized farms. This opportunity is expected to accelerate growth in carbon credit adoption.

Threat:

Volatile carbon credit pricing

Fluctuations in global carbon markets reduce predictability for farmers. Price instability discourages long-term investments in sustainable practices. Smaller farmers are particularly vulnerable to market volatility. Regulatory uncertainty adds further challenges. Negative publicity around carbon trading can reduce trust. This volatility creates barriers to mainstream adoption of agricultural carbon credits.

Covid-19 Impact:

Covid-19 had a mixed impact on the agricultural carbon credit market. On one hand,

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demand rose as sustainability became a priority during the pandemic. Farmers sought alternative income sources through carbon credits. Online platforms supported participation despite restrictions. On the other hand, supply chain disruptions affected verification processes. Economic uncertainty limited investments in advanced sustainability practices. Preventive health awareness increased focus on eco-friendly farming.

The soil carbon credits segment is expected to be the largest during the forecast period

The soil carbon credits segment is expected to account for the largest market share during the forecast period as farmers increasingly adopt soil management practices to generate credits. Soil carbon credits provide measurable and verifiable outcomes. Governments are supporting soil carbon initiatives through subsidies. Retail penetration of soil carbon programs is strong in developed markets. Farmers prefer soil credits for cost savings and productivity benefits. Agritech firms are investing in soil monitoring technologies.

The soil carbon sequestration segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the soil carbon sequestration segment is predicted to witness the highest growth rate due to rising demand for long-term carbon storage solutions. Sequestration practices enhance soil health and resilience. Farmers benefit from improved crop yields alongside carbon credits. Younger demographics are adopting regenerative farming practices rapidly. Digital platforms promote awareness of sequestration benefits. Governments are supporting sequestration through climate policies.

Region with largest share:

During the forecast period, the Europe region is expected to hold the largest market share owing to strong consumer awareness and advanced sustainability frameworks. European markets have established carbon trading systems. Leading agritech firms and research institutions are headquartered in this region. Government initiatives promote carbon-neutral agriculture. Retail penetration of carbon credit programs is strong in countries such as Germany, France, and the UK. Farmers are willing to invest in premium sustainability solutions.

Region with highest CAGR:

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Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by rising disposable incomes and growing agricultural modernization. Urbanization and food security concerns are fueling demand for carbon credits. Countries such as China, India, and Japan are adopting carbon-neutral farming rapidly. E-commerce platforms support distribution of sustainability solutions. Government subsidies encourage adoption in rural areas. Affordable carbon credit programs appeal to mass farmers.

Key players in the market

Some of the key players in Agricultural Carbon Credit Market include Indigo Ag, Inc., Nori Inc., South Pole Group, Bayer AG, Yara International ASA, Corteva Agriscience, Regrow Ag, Pachama Inc., ClimateTrade, Agoro Carbon Alliance, Carbon Streaming Corporation, Verra, Gold Standard, NativeEnergy and Carbon by Indigo.

Key Developments:

In March 2026, Regrow Ag successfully completed a strategic merger with PUMA (Plataforma Unica de Monitoreo Ambiental), a top agricultural data and measurement, reporting, and verification (MRV) provider in Latin America. This cross-border collaboration unifies Regrow's global resilience software with PUMA’s localized data systems to give corporate food giants a highly standardized, enterprise-grade system for tracing Scope 3 emissions reductions and regulatory compliance across global agricultural supply chains.

In January 2026, Indigo Ag announced a historic 12-year agreement to sell 2.85 million soil carbon removal credits generated under its Carbon by Indigo program to Microsoft. This landmark corporate deal represents one of the largest single agricultural carbon contracts to date, built on prior successful transactions of 40,000 tonnes in 2024 and 60,000 tonnes in 2025 to heavily back Microsoft's overarching goal of becoming carbon negative by 2030.

Credit Types Covered:

- Soil Carbon Credits
- Agroforestry Carbon Credits

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- Methane Reduction Credits
- Regenerative Agriculture Credits
- Other Credit Types

Farming Practices Covered:

- Conservation Tillage
- Cover Cropping
- Precision Nutrient Management
- Agroforestry Practices
- Other Farming Practices

Platform Types Covered:

- Carbon Credit Trading Platforms
- Carbon Monitoring Platforms
- Verification & Certification Platforms
- Other Platform Types

Applications Covered:

- Carbon Offset Trading
- Sustainable Agriculture Programs
- Corporate Emission Reduction

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- Soil Carbon Sequestration
- Other Applications

End Users Covered:

- Farmers
- Agricultural Enterprises
- Carbon Credit Developers
- Corporate Buyers
- Other End Users

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom
  - Germany
  - France
  - Italy
  - Spain

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- Netherlands
- Belgium
- Sweden
- Switzerland
- Poland
- Rest of Europe

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Thailand
- Malaysia
- Singapore
- Vietnam
- Rest of Asia Pacific

South America

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- Brazil
- Argentina
- Colombia
- Chile
- Peru
- Rest of South America

Rest of the World (RoW)

- Middle East
  - Saudi Arabia
  - United Arab Emirates
  - Qatar
  - Israel
  - Rest of Middle East
- Africa
  - South Africa
  - Egypt
  - Morocco
  - Rest of Africa

What our report offers:

- Market share assessments for the regional and country-level segments

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- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

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