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Carbon Farming Credit Market Forecasts to 2034 – Global Analysis By Credit Type (Soil Carbon Sequestration Credits, Agroforestry Credits, Biochar-Based Credits, Grassland Carbon Credits, Livestock Methane Reduction Credits, and Wetland and Peatland Restoration Credits), Credit Mechanism, Market Type, Verification Method, Buyer Type, Farm Size, Revenue Model, Platform Type, Application, and By Geography

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Abstracts

According to Stratistics MRC, the Global Carbon Farming Credit Market is accounted for $3.5 billion in 2026 and is expected to reach $13.9 billion by 2034 growing at a CAGR of 18.8% during the forecast period. Carbon farming credits are tradable certificates generated by agricultural practices that sequester atmospheric carbon dioxide in soils and biomass. These credits enable farmers to monetize regenerative practices including cover cropping, no-till agriculture, and agroforestry. The market connects agricultural carbon sequestration with entities seeking to offset emissions, creating financial incentives for climate-positive farming while providing corporations with verifiable carbon reduction instruments to meet sustainability commitments.

Market Dynamics:

Driver:

Corporate net-zero commitments

Hundreds of global corporations have announced ambitious net-zero targets requiring

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substantial carbon removal beyond internal operational reductions. These commitments create sustained demand for high-quality carbon credits from nature-based solutions. Agricultural carbon credits offer corporations the dual appeal of emissions offsetting and supply chain engagement with farmers. As reporting deadlines approach and regulatory pressure mounts, corporate procurement of farming credits accelerates. The credibility of soil carbon sequestration, combined with co-benefits for biodiversity and water quality, makes these credits particularly attractive for corporate sustainability portfolios seeking verified environmental impact.

Restraint:

Measurement and verification challenges

Quantifying soil carbon sequestration with scientific accuracy remains technically complex and costly, limiting credit issuance and buyer confidence. Soil carbon varies naturally across landscapes, requiring extensive baseline sampling and ongoing monitoring to detect changes attributable to farming practices. Disagreement persists among methodologies regarding measurement protocols, permanence assessments, and reversal risk calculations. These uncertainties create hesitation among both farmers considering program participation and buyers evaluating credit quality. Standardization efforts continue, but technical challenges currently constrain market scalability and increase transaction costs for all participants.

Opportunity:

Integration with agricultural supply chains

Forward-thinking food companies are linking carbon farming programs directly with their ingredient sourcing networks, creating integrated value from sustainability initiatives. These programs fund farmer transitions to regenerative practices, generate carbon credits for corporate offset needs, and secure climate-resilient supply chains simultaneously. The alignment of procurement and sustainability objectives creates compelling economic models where carbon credit revenues support farmer adoption of practices that improve long-term agricultural productivity. This integration reduces program fragmentation, strengthens farmer-company relationships, and accelerates landscape-scale adoption of climate-positive agriculture across entire sourcing regions.

Threat:

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Carbon credit quality controversies

High-profile investigations revealing quality issues in voluntary carbon markets threaten buyer confidence across all credit categories, including agricultural credits. Concerns regarding credit additionality, accurate baselines, and double-counting have prompted intense scrutiny from media, regulators, and corporate stakeholders. Agricultural credits face particular skepticism regarding permanence given farming's vulnerability to changing management practices and climate impacts. These controversies risk depressing prices, complicating corporate communications about offset usage, and potentially triggering regulatory interventions that restructure market operations. Rebuilding and maintaining trust requires continuous improvement in verification standards and transparent reporting.

Covid-19 Impact:

The COVID-19 pandemic initially disrupted carbon farming operations through supply chain interruptions and delayed verification activities. However, the crisis ultimately strengthened market fundamentals by accelerating corporate focus on climate resilience and supply chain sustainability. Recovery spending included green stimulus measures supporting agricultural climate programs. Remote verification technologies advanced rapidly during travel restrictions, improving long-term monitoring efficiency. The pandemic heightened awareness of interconnected environmental and economic vulnerabilities, strengthening commitment to nature-based climate solutions among both policymakers and corporate sustainability leaders.

The Corporates segment is expected to be the largest during the forecast period

The Corporates segment is anticipated to be the largest during the forecast period as primary drivers of voluntary carbon market demand through sustainability commitments. Multinational companies across technology, finance, consumer goods, and energy sectors actively purchase farming credits to offset residual emissions and demonstrate environmental leadership. Corporate procurement typically involves large-volume purchases through long-term agreements, providing revenue stability for farming projects. Sustainability reporting requirements, stakeholder pressure, and reputational considerations motivate corporate participation. The segment's purchasing power and preference for verified, high-quality credits significantly influences market standards and pricing structures.

The Aggregated Farming Projects segment is expected to have the highest CAGR

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during the forecast period

The Aggregated Farming Projects segment is anticipated to have the highest CAGR during the forecast period. Aggregated farming projects combine multiple smaller operations into unified carbon programs, overcoming the scalability challenges inherent in individual farm participation. These projects utilize centralized measurement, verification, and marketing infrastructure to reduce per-farm costs and attract larger credit buyers. Aggregators provide technical assistance, manage administrative requirements, and pool credits for market sale. The model enables small and medium farms to access carbon markets that would otherwise remain inaccessible. As program methodologies mature and farmer participation expands, aggregation emerges as the fastest-growing pathway for scaling agricultural carbon credit supply.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, driven by established carbon credit infrastructure, robust corporate demand, and extensive agricultural land base. The United States and Canada feature mature voluntary carbon markets with recognized standards and verification bodies. Government programs supporting climate-smart agriculture provide additional momentum. Major food corporations headquartered in the region integrate farming credits into sustainability strategies. Extensive cropland acreage, particularly in the Midwest and Great Plains, offers substantial carbon sequestration potential. Early market development and policy support position North America for sustained market leadership.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, supported by massive agricultural land area and growing corporate sustainability commitments. Australia leads regional development with established carbon farming methodologies and active market participation. Southeast Asian countries explore agricultural carbon programs integrating smallholder farmers into credit generation. Government climate commitments across China, India, and Japan create policy tailwinds for market expansion. International development funding supports project development and capacity building. As regional carbon trading frameworks evolve and corporate demand intensifies, Asia Pacific emerges as the fastest-growing market for farming credits.

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Key players in the market

Some of the key players in Carbon Farming Credit Market include Indigo Ag Inc., Nori Inc., Agreena ApS, Soil Capital Belgium SA, Corteva Inc., Bayer AG, Yara International ASA, Nutrien Ltd., Syngenta Group, Cargill Incorporated, Archer Daniels Midland Company, Louis Dreyfus Company B.V., Regrow Ag Inc., Terraton Initiative, and Microsoft Corporation.

Key Developments:

In February 2026, Indigo Ag announced the issuance of its fifth U.S. carbon crop, surpassing a milestone of 2 million metric tons of verified soil carbon impact. This issuance included 1.1 million carbon credits verified through the Climate Action Reserve (CAR).

In October 2025, Bayer expanded its 'Carbon Initiative' to include over 2,600 growers across 10 countries, focusing on 'carbon-smart' practices like no-till and cover cropping to store roughly one ton of carbon per acre annually.

In October 2025, Soil Capital and Royal Canin presented a two-year assessment of their joint regenerative agriculture partnership, highlighting successful transition metrics for French farmers.

Credit Types Covered:

- Soil Carbon Sequestration Credits
- Agroforestry Credits
- Biochar-Based Credits
- Grassland Carbon Credits
- Livestock Methane Reduction Credits
- Wetland and Peatland Restoration Credits

Credit Mechanisms Covered:

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- Carbon Avoidance Credits
- Carbon Removal Credits
- Hybrid Credits

Market Types Covered:

- Voluntary Carbon Market (VCM)
- Compliance Carbon Market
- Hybrid Public-Private Markets

Verification Methods Covered:

- Field-Based Soil Testing
- Remote Sensing and Satellite Monitoring
- AI-Based Carbon Modeling
- Blockchain-Based Verification

Buyer Types Covered:

- Corporates
- Financial Institutions and Traders
- Governments and Public Programs
- Carbon Marketplaces and Exchanges
- Individuals and SMEs

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Farm Sizes Covered:

- Smallholder Farms
- Medium Farms
- Large Commercial Farms
- Aggregated Farming Projects

Revenue Models Covered:

- Direct Credit Sales
- Forward Carbon Contracts
- Carbon Insetting Programs
- Carbon Credit Subscription Models

Platform Types Covered:

- Carbon Registries
- Carbon Farming Platforms
- Carbon Exchanges and Trading Platforms
- Farm Carbon Aggregators

Applications Covered:

- Food and Beverage Supply Chains
- Agriculture and Agri-Tech Companies

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- Energy and Utilities
- Aviation and Transportation
- Consumer Goods and Retail
- Financial Services

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom
  - Germany
  - France
  - Italy
  - Spain
  - Netherlands
  - Belgium
  - Sweden
  - Switzerland

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- Poland
- Rest of Europe

Asia Pacific

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

South America

- Brazil
- Argentina
- Colombia
- Chile
- Peru

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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
- 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

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- Supply chain trends mapping the latest technological advancements

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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) Regions are also represented in the same manner as above.

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