

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

<https://marketpublishers.com/r/CBB8C1D43EF9EN.html>

Date: March 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: CBB8C1D43EF9EN

Abstracts

According to Statistics 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

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:

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

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.

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:

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

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

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

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

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

- 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

Contents

1 EXECUTIVE SUMMARY

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL CARBON FARMING CREDIT MARKET, BY CREDIT TYPE

- 5.1 Soil Carbon Sequestration Credits
- 5.2 Agroforestry Credits
- 5.3 Biochar-Based Credits
- 5.4 Grassland Carbon Credits
- 5.5 Livestock Methane Reduction Credits
- 5.6 Wetland and Peatland Restoration Credits

6 GLOBAL CARBON FARMING CREDIT MARKET, BY CREDIT MECHANISM

- 6.1 Carbon Avoidance Credits
- 6.2 Carbon Removal Credits
- 6.3 Hybrid Credits

7 GLOBAL CARBON FARMING CREDIT MARKET, BY MARKET TYPE

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

8 GLOBAL CARBON FARMING CREDIT MARKET, BY VERIFICATION METHOD

- 8.1 Field-Based Soil Testing
- 8.2 Remote Sensing and Satellite Monitoring
- 8.3 AI-Based Carbon Modeling
- 8.4 Blockchain-Based Verification

9 GLOBAL CARBON FARMING CREDIT MARKET, BY BUYER TYPE

- 9.1 Corporates
- 9.2 Financial Institutions and Traders
- 9.3 Governments and Public Programs
- 9.4 Carbon Marketplaces and Exchanges
- 9.5 Individuals and SMEs

10 GLOBAL CARBON FARMING CREDIT MARKET, BY FARM SIZE

- 10.1 Smallholder Farms
- 10.2 Medium Farms
- 10.3 Large Commercial Farms
- 10.4 Aggregated Farming Projects

11 GLOBAL CARBON FARMING CREDIT MARKET, BY REVENUE MODEL

- 11.1 Direct Credit Sales
- 11.2 Forward Carbon Contracts
- 11.3 Carbon Insetting Programs
- 11.4 Carbon Credit Subscription Models

12 GLOBAL CARBON FARMING CREDIT MARKET, BY PLATFORM TYPE

- 12.1 Carbon Registries
- 12.2 Carbon Farming Platforms
- 12.3 Carbon Exchanges and Trading Platforms
- 12.4 Farm Carbon Aggregators

13 GLOBAL CARBON FARMING CREDIT MARKET, BY APPLICATION

- 13.1 Food and Beverage Supply Chains
- 13.2 Agriculture and Agri-Tech Companies
- 13.3 Energy and Utilities
- 13.4 Aviation and Transportation
- 13.5 Consumer Goods and Retail
- 13.6 Financial Services

14 GLOBAL CARBON FARMING CREDIT MARKET, BY GEOGRAPHY

- 14.1 North America
 - 14.1.1 United States
 - 14.1.2 Canada
 - 14.1.3 Mexico
- 14.2 Europe
 - 14.2.1 United Kingdom

- 14.2.2 Germany
- 14.2.3 France
- 14.2.4 Italy
- 14.2.5 Spain
- 14.2.6 Netherlands
- 14.2.7 Belgium
- 14.2.8 Sweden
- 14.2.9 Switzerland
- 14.2.10 Poland
- 14.2.11 Rest of Europe
- 14.3 Asia Pacific
 - 14.3.1 China
 - 14.3.2 Japan
 - 14.3.3 India
 - 14.3.4 South Korea
 - 14.3.5 Australia
 - 14.3.6 Indonesia
 - 14.3.7 Thailand
 - 14.3.8 Malaysia
 - 14.3.9 Singapore
 - 14.3.10 Vietnam
 - 14.3.11 Rest of Asia Pacific
- 14.4 South America
 - 14.4.1 Brazil
 - 14.4.2 Argentina
 - 14.4.3 Colombia
 - 14.4.4 Chile
 - 14.4.5 Peru
 - 14.4.6 Rest of South America
- 14.5 Rest of the World (RoW)
 - 14.5.1 Middle East
 - 14.5.1.1 Saudi Arabia
 - 14.5.1.2 United Arab Emirates
 - 14.5.1.3 Qatar
 - 14.5.1.4 Israel
 - 14.5.1.5 Rest of Middle East
 - 14.5.2 Africa
 - 14.5.2.1 South Africa
 - 14.5.2.2 Egypt

14.5.2.3 Morocco

14.5.2.4 Rest of Africa

15 STRATEGIC MARKET INTELLIGENCE

15.1 Industry Value Network and Supply Chain Assessment

15.2 White-Space and Opportunity Mapping

15.3 Product Evolution and Market Life Cycle Analysis

15.4 Channel, Distributor, and Go-to-Market Assessment

16 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

16.1 Mergers and Acquisitions

16.2 Partnerships, Alliances, and Joint Ventures

16.3 New Product Launches and Certifications

16.4 Capacity Expansion and Investments

16.5 Other Strategic Initiatives

17 COMPANY PROFILES

17.1 Indigo Ag Inc.

17.2 Nori Inc.

17.3 Agreeena ApS

17.4 Soil Capital Belgium SA

17.5 Corteva Inc.

17.6 Bayer AG

17.7 Yara International ASA

17.8 Nutrien Ltd.

17.9 Syngenta Group

17.10 Cargill Incorporated

17.11 Archer Daniels Midland Company

17.12 Louis Dreyfus Company B.V.

17.13 Regrow Ag Inc.

17.14 Terraton Initiative

17.15 Microsoft Corporation

List Of Tables

LIST OF TABLES

Table 1 Global Carbon Farming Credit Market Outlook, By Region (2023–2034) (\$MN)

Table 2 Global Carbon Farming Credit Market Outlook, By Credit Type (2023–2034) (\$MN)

Table 3 Global Carbon Farming Credit Market Outlook, By Soil Carbon Sequestration Credits (2023–2034) (\$MN)

Table 4 Global Carbon Farming Credit Market Outlook, By Agroforestry Credits (2023–2034) (\$MN)

Table 5 Global Carbon Farming Credit Market Outlook, By Biochar-Based Credits (2023–2034) (\$MN)

Table 6 Global Carbon Farming Credit Market Outlook, By Grassland Carbon Credits (2023–2034) (\$MN)

Table 7 Global Carbon Farming Credit Market Outlook, By Livestock Methane Reduction Credits (2023–2034) (\$MN)

Table 8 Global Carbon Farming Credit Market Outlook, By Wetland and Peatland Restoration Credits (2023–2034) (\$MN)

Table 9 Global Carbon Farming Credit Market Outlook, By Credit Mechanism (2023–2034) (\$MN)

Table 10 Global Carbon Farming Credit Market Outlook, By Carbon Avoidance Credits (2023–2034) (\$MN)

Table 11 Global Carbon Farming Credit Market Outlook, By Carbon Removal Credits (2023–2034) (\$MN)

Table 12 Global Carbon Farming Credit Market Outlook, By Hybrid Credits (2023–2034) (\$MN)

Table 13 Global Carbon Farming Credit Market Outlook, By Market Type (2023–2034) (\$MN)

Table 14 Global Carbon Farming Credit Market Outlook, By Voluntary Carbon Market (VCM) (2023–2034) (\$MN)

Table 15 Global Carbon Farming Credit Market Outlook, By Compliance Carbon Market (2023–2034) (\$MN)

Table 16 Global Carbon Farming Credit Market Outlook, By Hybrid Public-Private Markets (2023–2034) (\$MN)

Table 17 Global Carbon Farming Credit Market Outlook, By Verification Method (2023–2034) (\$MN)

Table 18 Global Carbon Farming Credit Market Outlook, By Field-Based Soil Testing (2023–2034) (\$MN)

Table 19 Global Carbon Farming Credit Market Outlook, By Remote Sensing and Satellite Monitoring (2023–2034) (\$MN)

Table 20 Global Carbon Farming Credit Market Outlook, By AI-Based Carbon Modeling (2023–2034) (\$MN)

Table 21 Global Carbon Farming Credit Market Outlook, By Blockchain-Based Verification (2023–2034) (\$MN)

Table 22 Global Carbon Farming Credit Market Outlook, By Buyer Type (2023–2034) (\$MN)

Table 23 Global Carbon Farming Credit Market Outlook, By Corporates (2023–2034) (\$MN)

Table 24 Global Carbon Farming Credit Market Outlook, By Financial Institutions and Traders (2023–2034) (\$MN)

Table 25 Global Carbon Farming Credit Market Outlook, By Governments and Public Programs (2023–2034) (\$MN)

Table 26 Global Carbon Farming Credit Market Outlook, By Carbon Marketplaces and Exchanges (2023–2034) (\$MN)

Table 27 Global Carbon Farming Credit Market Outlook, By Individuals and SMEs (2023–2034) (\$MN)

Table 28 Global Carbon Farming Credit Market Outlook, By Farm Size (2023–2034) (\$MN)

Table 29 Global Carbon Farming Credit Market Outlook, By Smallholder Farms (2023–2034) (\$MN)

Table 30 Global Carbon Farming Credit Market Outlook, By Medium Farms (2023–2034) (\$MN)

Table 31 Global Carbon Farming Credit Market Outlook, By Large Commercial Farms (2023–2034) (\$MN)

Table 32 Global Carbon Farming Credit Market Outlook, By Aggregated Farming Projects (2023–2034) (\$MN)

Table 33 Global Carbon Farming Credit Market Outlook, By Revenue Model (2023–2034) (\$MN)

Table 34 Global Carbon Farming Credit Market Outlook, By Direct Credit Sales (2023–2034) (\$MN)

Table 35 Global Carbon Farming Credit Market Outlook, By Forward Carbon Contracts (2023–2034) (\$MN)

Table 36 Global Carbon Farming Credit Market Outlook, By Carbon Insetting Programs (2023–2034) (\$MN)

Table 37 Global Carbon Farming Credit Market Outlook, By Carbon Credit Subscription Models (2023–2034) (\$MN)

Table 38 Global Carbon Farming Credit Market Outlook, By Platform Type (2023–2034)

(\$MN)

Table 39 Global Carbon Farming Credit Market Outlook, By Carbon Registries (2023–2034) (\$MN)

Table 40 Global Carbon Farming Credit Market Outlook, By Carbon Farming Platforms (2023–2034) (\$MN)

Table 41 Global Carbon Farming Credit Market Outlook, By Carbon Exchanges and Trading Platforms (2023–2034) (\$MN)

Table 42 Global Carbon Farming Credit Market Outlook, By Farm Carbon Aggregators (2023–2034) (\$MN)

Table 43 Global Carbon Farming Credit Market Outlook, By Application (2023–2034) (\$MN)

Table 44 Global Carbon Farming Credit Market Outlook, By Food and Beverage Supply Chains (2023–2034) (\$MN)

Table 45 Global Carbon Farming Credit Market Outlook, By Agriculture and Agri-Tech Companies (2023–2034) (\$MN)

Table 46 Global Carbon Farming Credit Market Outlook, By Energy and Utilities (2023–2034) (\$MN)

Table 47 Global Carbon Farming Credit Market Outlook, By Aviation and Transportation (2023–2034) (\$MN)

Table 48 Global Carbon Farming Credit Market Outlook, By Consumer Goods and Retail (2023–2034) (\$MN)

Table 49 Global Carbon Farming Credit Market Outlook, By Financial Services (2023–2034) (\$MN)

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.

I would like to order

Product name: 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

Product link: <https://marketpublishers.com/r/CBB8C1D43EF9EN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/CBB8C1D43EF9EN.html>