

Carbon-Removal Food Market Forecasts to 2034 – Global Analysis By Product (Plant-Based Foods, Alternative Proteins, Beverages, Snacks, Bakery Products and Other Products), Carbon Strategy, Removal Method, Carbon Accounting, End User, and Geography

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Abstracts

According to Statistics MRC, the Global Carbon-Removal Food Market is accounted for \$0.5 billion in 2026 and is expected to reach \$2.8 billion by 2034 growing at a CAGR of 24.1% during the forecast period. Carbon-Removal Food are food products designed to remove more greenhouse gases from the atmosphere over their lifecycle than are emitted during their production, processing, distribution, use, and disposal. Achieving a carbon-negative footprint can involve regenerative agriculture, carbon sequestration, renewable energy, low-emission processing, efficient supply chains, and incorporation of verified carbon removal practices. These products can help food companies address climate targets while improving resource efficiency and environmental performance. Growing consumer interest in sustainable food and increasing corporate commitments to emissions reduction are supporting the development of Carbon-Removal Food.

Market Dynamics

Driver:

Growing consumer and corporate demand for climate-positive products

Increasing consumer and corporate demand for climate-positive, carbon-negative products is driving market growth as sustainability becomes a primary purchase driver across food categories. Companies are committing to carbon-negative supply chains

and product portfolios to meet net-zero targets and consumer expectations. Corporate sustainability commitments and net-zero targets are accelerating ingredient sourcing and product innovation across the food industry. Consumer awareness of carbon footprints and climate impact is growing rapidly. Carbon-negative claims provide competitive advantage in sustainability-focused markets.

Restraint:

Verification complexity and greenwashing concerns

Verification complexity for carbon-negative claims and consumer skepticism regarding greenwashing present significant challenges for market development and consumer trust. Companies face challenges in accurately measuring and verifying carbon-negative claims across complex supply chains. Limited standardization of carbon accounting methodologies creates confusion among consumers and companies. Greenwashing concerns may reduce consumer trust in carbon-negative claims. Credibility requires rigorous certification and third-party verification.

Opportunity:

Innovation in carbon accounting and verification

Innovation in carbon accounting and verification technologies is enabling more accurate and transparent carbon-negative claims that build consumer trust and confidence. Development of blockchain-based traceability and verification systems is improving supply chain transparency. Integration of carbon measurement across supply chains is expanding product development possibilities. Growing availability of certification programs is enhancing claim credibility and consumer confidence. Technology solutions are making verification more accessible and cost-effective.

Threat:

Competition from lower-cost conventional products

Competition from lower-cost conventional products may limit carbon-negative product adoption in price-sensitive segments. Consumer willingness to pay premiums for carbon-negative products may be limited. Regulatory requirements for carbon claims may affect marketing capabilities. Economic pressures may lead consumers to prioritize price over climate impact. Retail space constraints may limit product availability.

Covid-19 Impact:

The COVID-19 pandemic increased consumer awareness of environmental issues and food system sustainability, accelerating interest in climate-positive food products. The pandemic highlighted the connection between food systems and environmental sustainability. The post-pandemic period has witnessed sustained demand for sustainable, climate-friendly food products. Growing corporate sustainability commitments continue driving carbon-negative product development. Consumer interest in climate impact of food purchases continues growing.

The plant-based foods segment is expected to be the largest during the forecast period

The plant-based foods segment is expected to account for the largest market share during the forecast period as plant-based foods offer established carbon-negative opportunities through regenerative sourcing and reduced emissions compared to animal-based products. Plant-based alternatives to meat, dairy, and eggs can achieve carbon-negative status through sustainable sourcing and regenerative agriculture. Growing consumer acceptance and market development for plant-based foods support segment leadership. Plant-based products are the most commercially developed carbon-negative category. Established consumer awareness supports continued segment dominance.

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

Over the forecast period, the carbon removal segment is predicted to witness the highest growth rate driven by increasing consumer and corporate demand for products that actively remove carbon dioxide from the atmosphere beyond neutral emissions. Carbon removal strategies including soil sequestration and biochar offer verifiable climate benefits. Growing corporate commitments to carbon removal are accelerating adoption of removal-based product strategies. Carbon removal is increasingly preferred over emission offsetting in climate strategies. Direct removal offers the most impactful climate benefits.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to strong consumer awareness of climate issues, early adoption of carbon-negative products, and presence of leading sustainable food brands. The United States hosts major carbon-negative food companies with established distribution across

retail channels. Strong sustainability culture and corporate commitments reinforce regional market leadership. Growing consumer demand for climate-positive products drives market expansion across the region.

Region with highest CAGR:

Over the forecast period, the Europe region is anticipated to exhibit the highest CAGR driven by strong regulatory support for carbon reduction, high consumer awareness of climate issues, and aggressive corporate sustainability commitments. European Union climate policies and sustainability regulations create favorable market environment for carbon-negative product development. High consumer environmental consciousness drives premium willingness and product adoption. Corporate commitments to climate neutrality are accelerating across the region.

Key players in the market

Some of the key players in the Carbon-Removal Food Market include Negative Foods, Air Protein, Inc., Solar Foods Oyj, NotCo, Clara Foods, Patagonia Provisions, Regrow Agriculture, Inc., Indigo Ag, Inc., Nori, Inc., Pachama, Inc., Charm Industrial, Heirloom Carbon Technologies, Inc., CarbonCure Technologies Inc., Running Tide, and Loam Bio Pty Ltd.

Key Developments:

In May 2025, Solar Foods Oyj launched commercial Carbon-Removal Food using air-based protein from captured carbon dioxide and renewable energy. The products offer verifiable carbon removal benefits with favorable nutrition and functionality.

In April 2025, Patagonia Provisions announced expansion of its carbon-negative product portfolio with new food items sourced from regenerative agriculture and carbon removal practices across supply chains.

Products Covered:

Plant-Based Foods

Alternative Proteins

Beverages

Snacks

Bakery Products

Other Products

Strategies Covered:

Carbon Removal

Regenerative Sourcing

Low-Carbon Processing

Carbon-Efficient Packaging

Emission Offsetting

Other Strategies

Removal Methods Covered:

Soil Sequestration

Biomass Carbon Removal

Biochar

Direct Air Capture

Mineralization

Other Removal Methods

Accounting Methods Covered:

Product Footprinting

Life Cycle Assessment

Carbon Certification

Carbon Claims

Third-Party Verification

Other Accounting Methods

End Users Covered:

Households

Foodservice

Retailers

Institutional Buyers

Food Manufacturers

Other End Users

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

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