

Next-Gen Feedstocks for Sustainable Chemicals Market - A Global and Regional Analysis: Focus on Product, Application, and Country Analysis - Analysis and Forecast, 2025-2034

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Abstracts

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This report will be delivered in 7-10 working days. Global Next-Gen Feedstocks for Sustainable Chemicals Market: Industry Overview

The global next-gen feedstocks for sustainable chemicals market is experiencing significant transformation as industries increasingly embrace sustainable practices and circular economy principles. This market focuses on the development and utilization of alternative raw materials such as biomass, waste, and captured carbon dioxide to produce chemicals, polymers, and fuels.

Key factors driving market growth include growing environmental concerns, tightening regulations on emissions, and heightened consumer demand for eco-friendly products. Companies are under pressure to shift from traditional fossil-based feedstocks to renewable and circular alternatives. Technological advancements in areas like carbon capture, chemical recycling, and synthetic biology are enabling the efficient conversion of waste and other unconventional materials into valuable chemicals.

Major companies, such as Neste and Enerkem, are leading efforts in waste-to-chemical technologies, underscoring the growing importance of sustainable feedstock solutions. However, challenges such as the high cost of bio-based feedstocks, scalability issues, and infrastructure gaps persist. Despite these hurdles, the market presents considerable opportunities for innovation, especially as industries continue to align with

sustainability goals and advance new technologies. The transition to next-gen feedstocks is seen as a crucial step in building a sustainable future for the chemicals industry.

Market Lifecycle Stage

The next-gen feedstocks for sustainable chemicals Market is currently in the growth stage of its lifecycle. While the concept of sustainable feedstocks is not new, the market has seen a rapid increase in investments, technological advancements, and commercial interest in recent years. This growth is largely driven by the urgent need to transition away from fossil-based resources toward renewable and circular alternatives due to mounting environmental concerns and stricter regulations.

Technological innovations in areas such as bio-based chemicals, chemical recycling, and carbon capture are making these feedstocks more viable for large-scale production. Additionally, corporate sustainability commitments and rising consumer demand for eco-friendly products are propelling the adoption of next-gen feedstocks across various industries.

Next-Gen Feedstocks for Sustainable Chemicals Market Segmentation:

Segmentation 1: by End-User

Chemicals and Petrochemicals

Pharmaceuticals

Energy

Paper and Pulp

Building and Construction

Others

The Chemicals and Petrochemicals is one of the prominent application segments in the global next-gen feedstocks for sustainable chemicals market.

Segmentation 2: by Feedstock

Bio-based Feedstock

o Lignocellulosic

o Non-Lignocellulosic

Municipal Waste

Agricultural and Forestry Waste

Carbon Capture and Utilization

Others

The global next-gen feedstocks for sustainable chemicals market is estimated to be led by the Bio-based Feedstock segment in terms of type.

Segmentation 3: by Region

North America - U.S., Canada, and Mexico

Europe - Germany, France, Italy, Spain, U.K., and Rest-of-Europe

Asia-Pacific - China, Japan, South Korea, India, and Rest-of-Asia-Pacific and Japan

Rest-of-the-World - South America and Middle East and Africa

In the next-gen feedstocks for sustainable chemicals market, North America is anticipated to gain traction in terms of Next-Gen feedstocks production, owing to the continuous growth in the adoption of sustainable chemicals and the presence of key manufacturers in the regions.

Demand – Drivers and Limitations

The following are the demand drivers for the global Next-Gen Feedstocks for Sustainable Chemicals market:

Growing Demand for Sustainable and Eco-friendly Products

Increasing Regulatory Pressure for Sustainable Practices

The global Next-Gen Feedstocks for Sustainable Chemicals market is expected to face some limitations as well due to the following challenges:

High Production Costs of Bio-based Feedstocks

Limited Recycling Infrastructure

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on thorough secondary research, which includes analyzing company coverage, product portfolio, market penetration, and insights gathered from primary experts.

The next-gen feedstocks for sustainable chemicals market comprises key players who have established themselves thoroughly and have the proper understanding of the market, accompanied by start-ups who are looking forward to establishing themselves in this highly competitive next-gen feedstocks for sustainable chemicals market. With the growth in advancements in recycling technologies among the nations, more players will enter the global next-gen feedstocks for sustainable chemicals market with each passing year.

Some of the prominent established names in the next-gen feedstocks for sustainable chemicals market are:

NatureWorks LLC

Aker Carbon Capture ASA

Darling Ingredients Inc.

Drax Group PLC

Enerkem

Genan Holding A/S

Neste Oyj

Poet, LLC

Resourceco

Sustainable Feedstocks Group

Companies that are not a part of the previously mentioned pool have been well represented across different sections of the next-gen feedstocks for sustainable chemicals market report (wherever applicable).

Contents

Executive Summary
Scope and Definition
Market/Product Definition
Key Questions Answered
Analysis and Forecast Note

1. MARKETS: INDUSTRY OUTLOOK

- 1.1 Trends: Current and Future Impact Assessment
- 1.2 Stakeholder Analysis
 - 1.2.1 Use Case
 - 1.2.2 End User and Buying Criteria
- 1.3 Market Dynamics Overview
 - 1.3.1 Market Drivers
 - 1.3.2 Market Restraints
 - 1.3.3 Market Opportunities
- 1.4 Regulatory & Policy Impact Analysis
- 1.5 Technological Innovations
 - 1.5.1 Green chemistry principles
 - 1.5.2 Circular economy approaches
 - 1.5.3 Advanced recycling technologies
 - 1.5.4 Electrification of chemical processes
 - 1.5.5 Digitalization and AI in chemical design
 - 1.5.6 Synthetic biology and metabolic engineering
- 1.6 Patent Analysis
- 1.7 Start-Up Landscape
- 1.8 Investment Landscape and R&D Trends
- 1.9 Future Outlook and Market Roadmap
- 1.10 Supply Chain Analysis
- 1.11 Value Chain Analysis
- 1.12 Global Pricing Analysis
- 1.13 Industry Attractiveness

2. NEXT-GEN FEEDSTOCKS FOR SUSTAINABLE CHEMICALS MARKET (BY APPLICATION)

- 2.1 Application Segmentation

2.2 Application Summary

2.3 Next-Gen Feedstocks for Sustainable Chemicals Market (by End-User)

2.3.1 Chemicals and Petrochemicals

2.3.2 Pharmaceuticals

2.3.3 Energy

2.3.4 Paper and Pulp

2.3.5 Building and Construction

2.3.6 Others

3. NEXT-GEN FEEDSTOCKS FOR SUSTAINABLE CHEMICALS MARKET (BY PRODUCT)

3.1 Product Segmentation

3.2 Product Summary

3.3 Next-Gen Feedstocks for Sustainable Chemicals Market (by Feedstock)

3.3.1 Bio-based Feedstock

3.3.1.1 Lignocellulosic

3.3.1.2 Non-Lignocellulosic

3.3.2 Municipal Waste

3.3.3 Agricultural and Forestry Waste

3.3.4 Carbon Capture and Utilization

3.3.5 Others

4. NEXT-GEN FEEDSTOCKS FOR SUSTAINABLE CHEMICALS MARKET (BY REGION)

4.1 Next-Gen Feedstocks for Sustainable Chemicals Market (by Region)

4.2 North America

4.2.1 Regional Overview

4.2.2 Driving Factors for Market Growth

4.2.3 Factors Challenging the Market

4.2.4 Application

4.2.5 Product

4.2.6 North America (by Country)

4.2.6.1 U.S.

4.2.6.1.1 Market by Application

4.2.6.1.2 Market by Product

4.2.6.2 Canada

4.2.6.2.1 Market by Application

4.2.6.2.2 Market by Product

4.2.6.3 Mexico

4.2.6.3.1 Market by Application

4.2.6.3.2 Market by Product

4.3 Europe

4.3.1 Regional Overview

4.3.2 Driving Factors for Market Growth

4.3.3 Factors Challenging the Market

4.3.4 Application

4.3.5 Product

4.3.6 Europe (by Country)

4.3.6.1 Germany

4.3.6.1.1 Market by Application

4.3.6.1.2 Market by Product

4.3.6.2 France

4.3.6.2.1 Market by Application

4.3.6.2.2 Market by Product

4.3.6.3 Italy

4.3.6.3.1 Market by Application

4.3.6.3.2 Market by Product

4.3.6.4 Spain

4.3.6.4.1 Market by Application

4.3.6.4.2 Market by Product

4.3.6.5 U.K.

4.3.6.5.1 Market by Application

4.3.6.5.2 Market by Product

4.3.6.6 Rest-of-Europe

4.3.6.6.1 Market by Application

4.3.6.6.2 Market by Product

4.4 Asia-Pacific

4.4.1 Regional Overview

4.4.2 Driving Factors for Market Growth

4.4.3 Factors Challenging the Market

4.4.4 Application

4.4.5 Product

4.4.6 Asia-Pacific (by Country)

4.4.6.1 China

4.4.6.1.1 Market by Application

4.4.6.1.2 Market by Product

- 4.4.6.2 Japan
 - 4.4.6.2.1 Market by Application
 - 4.4.6.2.2 Market by Product
- 4.4.6.3 India
 - 4.4.6.3.1 Market by Application
 - 4.4.6.3.2 Market by Product
- 4.4.6.4 South Korea
 - 4.4.6.4.1 Market by Application
 - 4.4.6.4.2 Market by Product
- 4.4.6.5 Rest-of-Asia-Pacific
 - 4.4.6.5.1 Market by Application
 - 4.4.6.5.2 Market by Product
- 4.5 Rest-of-the-World
 - 4.5.1 Regional Overview
 - 4.5.2 Driving Factors for Market Growth
 - 4.5.3 Factors Challenging the Market
 - 4.5.4 Application
 - 4.5.5 Product
 - 4.5.6 Rest-of-the-World (by Region)
 - 4.5.6.1 South America
 - 4.5.6.1.1 Market by Application
 - 4.5.6.1.2 Market by Product
 - 4.5.6.2 Middle East and Africa
 - 4.5.6.2.1 Market by Application
 - 4.5.6.2.2 Market by Product

5. MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES

- 5.1 Next Frontiers
- 5.2 Geographic Assessment
- 5.3 Company Profiles
 - 5.3.1 NatureWorks LLC
 - 5.3.1.1 Overview
 - 5.3.1.2 Top Products/Product Portfolio
 - 5.3.1.3 Top Competitors
 - 5.3.1.4 Target Customers
 - 5.3.1.5 Key Personnel
 - 5.3.1.6 Analyst View
 - 5.3.1.7 Market Share

5.3.2 Aker Carbon Capture ASA

5.3.2.1 Overview

5.3.2.2 Top Products/Product Portfolio

5.3.2.3 Top Competitors

5.3.2.4 Target Customers

5.3.2.5 Key Personnel

5.3.2.6 Analyst View

5.3.2.7 Market Share

5.3.3 Darling Ingredients Inc.

5.3.3.1 Overview

5.3.3.2 Top Products/Product Portfolio

5.3.3.3 Top Competitors

5.3.3.4 Target Customers

5.3.3.5 Key Personnel

5.3.3.6 Analyst View

5.3.3.7 Market Share

5.3.4 Drax Group PLC

5.3.4.1 Overview

5.3.4.2 Top Products/Product Portfolio

5.3.4.3 Top Competitors

5.3.4.4 Target Customers

5.3.4.5 Key Personnel

5.3.4.6 Analyst View

5.3.4.7 Market Share

5.3.5 Enerkem

5.3.5.1 Overview

5.3.5.2 Top Products/Product Portfolio

5.3.5.3 Top Competitors

5.3.5.4 Target Customers

5.3.5.5 Key Personnel

5.3.5.6 Analyst View

5.3.5.7 Market Share

5.3.6 Genan Holding A/S

5.3.6.1 Overview

5.3.6.2 Top Products/Product Portfolio

5.3.6.3 Top Competitors

5.3.6.4 Target Customers

5.3.6.5 Key Personnel

5.3.6.6 Analyst View

5.3.6.7 Market Share

5.3.7 Neste Oyj

5.3.7.1 Overview

5.3.7.2 Top Products/Product Portfolio

5.3.7.3 Top Competitors

5.3.7.4 Target Customers

5.3.7.5 Key Personnel

5.3.7.6 Analyst View

5.3.7.7 Market Share

5.3.8 Poet, LLC

5.3.8.1 Overview

5.3.8.2 Top Products/Product Portfolio

5.3.8.3 Top Competitors

5.3.8.4 Target Customers

5.3.8.5 Key Personnel

5.3.8.6 Analyst View

5.3.8.7 Market Share

5.3.9 Resourceco

5.3.9.1 Overview

5.3.9.2 Top Products/Product Portfolio

5.3.9.3 Top Competitors

5.3.9.4 Target Customers

5.3.9.5 Key Personnel

5.3.9.6 Analyst View

5.3.9.7 Market Share

5.3.10 Sustainable Feedstocks Group

5.3.10.1 Overview

5.3.10.2 Top Products/Product Portfolio

5.3.10.3 Top Competitors

5.3.10.4 Target Customers

5.3.10.5 Key Personnel

5.3.10.6 Analyst View

5.3.10.7 Market Share

5.4 Other Key Companies

6. RESEARCH METHODOLOGY

List Of Figures

LIST OF FIGURES

Figure 1: Next-Gen Feedstocks for Sustainable Chemicals Market (by Scenario), \$Million, 2025, 2028, and 2034

Figure 2: Next-Gen Feedstocks for Sustainable Chemicals Market (by Region), \$Million, 2024, 2027, and 2034

Figure 3: Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024, 2027, and 2034

Figure 4: Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024, 2027, and 2034

Figure 5: Competitive Landscape Snapshot

Figure 6: Supply Chain Analysis

Figure 7: Value Chain Analysis

Figure 8: Patent Analysis (by Country), January 2021-April 2025

Figure 9: Patent Analysis (by Company), January 2021-April 2025

Figure 10: Impact Analysis of Market Navigating Factors, 2024-2034

Figure 11: U.S. Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 12: Canada Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 13: Mexico Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 14: Germany Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 15: France Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 16: Italy Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 17: Spain Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 18: U.K. Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 19: Rest-of-Europe Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 20: China Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 21: Japan Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

2024-2034

Figure 22: India Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 23: South Korea Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 24: Rest-of-Asia-Pacific Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 25: South America Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 26: Middle East and Africa Next-Gen Feedstocks for Sustainable Chemicals Market, \$Million, 2024-2034

Figure 27: Strategic Initiatives (by Company), 2021-2025

Figure 28: Share of Strategic Initiatives, 2021-2025

Figure 29: Data Triangulation

Figure 30: Top-Down and Bottom-Up Approach

Figure 31: Assumptions and Limitations

List Of Tables

LIST OF TABLES

Table 1: Market Snapshot

Table 2: Opportunities across Region

Table 3: Trends Overview

Table 4: Next-Gen Feedstocks for Sustainable Chemicals Market Pricing Forecast, 2024-2034

Table 5: Application Summary (by Application)

Table 6: Product Summary (by Product)

Table 7: Next-Gen Feedstocks for Sustainable Chemicals Market (by Region), \$Million, 2024-2034

Table 8: North America Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 9: North America Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 10: U.S. Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 11: U.S. Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 12: Canada Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 13: Canada Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 14: Mexico Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 15: Mexico Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 16: Europe Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 17: Europe Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 18: Germany Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 19: Germany Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 20: France Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 21: France Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 22: Italy Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 23: Italy Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 24: Spain Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 25: Spain Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 26: U.K. Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 27: U.K. Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 28: Rest-of-Europe Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 29: Rest-of-Europe Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 30: Asia-Pacific Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 31: Asia-Pacific Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 32: China Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 33: China Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 34: Japan Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 35: Japan Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 36: India Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 37: India Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 38: South Korea Next-Gen Feedstocks for Sustainable Chemicals Market (by Application), \$Million, 2024-2034

Table 39: South Korea Next-Gen Feedstocks for Sustainable Chemicals Market (by Product), \$Million, 2024-2034

Table 40: Rest-of-Asia-Pacific Next-Gen Feedstocks for Sustainable Chemicals Market

(by Application), \$Million, 2024-2034

Table 41: Rest-of-Asia-Pacific Next-Gen Feedstocks for Sustainable Chemicals Market
(by Product), \$Million, 2024-2034

Table 42: Rest-of-the-World Next-Gen Feedstocks for Sustainable Chemicals Market
(by Application), \$Million, 2024-2034

Table 43: Rest-of-the-World Next-Gen Feedstocks for Sustainable Chemicals Market
(by Product), \$Million, 2024-2034

Table 44: South America Next-Gen Feedstocks for Sustainable Chemicals Market (by
Application), \$Million, 2024-2034

Table 45: South America Next-Gen Feedstocks for Sustainable Chemicals Market (by
Product), \$Million, 2024-2034

Table 46: Middle East and Africa Next-Gen Feedstocks for Sustainable Chemicals
Market (by Application), \$Million, 2024-2034

Table 47: Middle East and Africa Next-Gen Feedstocks for Sustainable Chemicals
Market (by Product), \$Million, 2024-2034

Table 48: Market Share

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