

Global Organic Recycling of Bio-based Plastics Market Size Study, by Source (Plastic Bottles, Plastic Films), by Application (Building & Construction, Packaging), and Regional Forecasts 2022-2032

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Abstracts

The Global Organic Recycling of Bio-based Plastics Market, valued at approximately USD 2.2 billion in 2023, is poised to witness a substantial growth trajectory, achieving a robust CAGR of 10.1% during the forecast period of 2024-2032. The organic recycling of bio-based plastics represents an innovative and sustainable approach to addressing the environmental challenges posed by plastic waste. By converting discarded bio-based plastics into valuable resources, this market segment is revolutionizing waste management practices while driving the global shift toward circular economies.

The surge in packaging and construction industries' reliance on bio-based plastics has amplified the demand for effective recycling methodologies. Plastic bottles and films, as prominent sources of recyclable materials, are driving advancements in recycling technologies, ensuring efficient processing and resource optimization. Additionally, the rising consumer awareness about environmental conservation is compelling industries to adopt sustainable practices, thereby accelerating the adoption of organic recycling methods.

However, the market faces challenges, including the high initial investment required for establishing recycling infrastructure and the complexities associated with sorting and processing mixed bio-based plastics. Despite these obstacles, continuous advancements in recycling technologies, coupled with government initiatives promoting sustainable waste management, are expected to pave the way for market expansion. Innovations such as enzymatic recycling processes and integrated recycling systems are anticipated to unlock new growth opportunities, driving the market's upward

trajectory.

Regionally, Europe leads the market due to stringent environmental regulations and widespread adoption of sustainable practices in waste management. North America closely follows, driven by technological advancements and increasing investments in green initiatives. The Asia-Pacific region is expected to exhibit the fastest growth, fueled by rapid industrialization, expanding packaging sectors, and increasing governmental emphasis on environmental sustainability.

Major market players included in this report are:

BASF SE

NatureWorks LLC

Total Corbion PLA

Danimer Scientific

Futerra

Novamont S.p.A.

Biome Bioplastics Limited

Green Dot Bioplastics

Toray Industries, Inc.

Mitsubishi Chemical Corporation

PTT Global Chemical Public Company Limited

Eastman Chemical Company

Avantium N.V.

Yield10 Bioscience, Inc.

Kuraray Co., Ltd.

The detailed segments and sub-segment of the market are explained below:

By Source:

Plastic Bottles

Plastic Films

By Application:

Building & Construction

Packaging

By Region: North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America:

Brazil

Mexico

Rest of Latin America

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year: 2022

Base year: 2023

Forecast period: 2024 to 2032

Key Takeaways:

Comprehensive market estimates and forecasts spanning a decade.

Granular analysis of regional and segment-specific trends.

Examination of competitive dynamics and major players' strategies.

Insights into emerging market opportunities and challenges.

Strategic recommendations for market participants to optimize growth potential in a dynamic landscape.

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