

The Global Market for Renewable and Sustainable Materials 2024-2034

<https://marketpublishers.com/r/G48A3B429013EN.html>

Date: September 2023

Pages: 2101

Price: US\$ 2,115.00 (Single User License)

ID: G48A3B429013EN

Abstracts

The demand for renewable and sustainable alternatives to fossil-fuel based chemicals and materials is experiencing rapid growth. The use of renewable and sustainable materials in construction, the automotive sector, energy, textiles and others can create markets for bio-based products, as well as significantly reduce emissions, manufacturing energy requirements, manufacturing costs and waste. Key drivers include rising corporate and government commitments to sustainability, regulations favouring renewables, and shifting consumer preferences.

The 2,101 page report provides a comprehensive analysis of the global market for bio-based, CO₂-utilization, and chemically recycled materials. It profiles over 1,200 companies developing innovative technologies and products in these sectors. Contents include:

In-depth analysis of bio-based feedstocks including plant-based sources (starch, sugar crops, lignocellulose, oils), waste streams (food, agricultural, forestry, municipal), and microbial & mineral sources.

In-depth analysis of bio-based polymers, plastics, fuels, natural fibers, lignin, and sustainable coatings and paints. Market sizes, production capacities, volume trends and forecasts to 2034.

Review of latest technologies and market opportunities in carbon capture, utilization and storage (CCUS). Barriers, policies, projects, product markets including CO₂-based fuels, minerals, etc.

Overview of advanced chemical recycling processes such as pyrolysis,

gasification, depolymerization, etc. Plastics market drivers, industry developments, technology analysis, and company profiles.

Companies profiled include NatureWorks, Total Corbion, Danimer Scientific, Novamont, Mitsubishi Chemicals, Indorama, Braskem, Avantium, Borealis, Cathay, Dupont, BASF, Arkema, DuPont, BASF, AMSilk GmbH, Loliware, Bolt Threads, Ecovative, Bioform Technologies, Algal Bio, Kraig Biocraft Laboratories, Biotic Circular Technologies Ltd., Full Cycle Bioplastics, Stora Enso Oyj, Spiber, Traceless Materials GmbH, CJ Biomaterials, Natrify, Plastus, Humble Bee Bio, B'ZEOS, Ecovative, Notpla, Smartfiber, Keel Labs, MycoWorks, Algiecel, Aspiring Materials, Cambridge Carbon Capture, Carbon Engineering Ltd., Captura, Carbyon BV, CarbonCure Technologies Inc., CarbonOrO, Carbon Collect, Climeworks, Dimensional Energy, Dioxycle, Ebb Carbon, enaDyne, Fortera Corporation, Global Thermostat, Heirloom Carbon Technologies, High Hopes Labs, LanzaTech, Liquid Wind AB, Lithos, Living Carbon, Mars Materials, Mercurius Biorefining, Mission Zero Technologies, OXCUU, Oxylum, Paebbl, Prometheus Fuels, RepAir, Sunfire GmbH, Sustaera, Svante, Travertine Technologies, Verdox, Agilyx, APK?AG, Aquafil, Carbios, Eastman, Extractive, Fych Technologies, Garbo, gr3n SA, Ioniqa, Itero, Licella, Mura Technology, revalyu Resources GmbH, Plastic Energy, Polystyvert, Pyrowave, ReVital Polymers and SABIC.

The report underscores how bio-based, CO₂-utilization, and chemical recycling technologies are essential for establishing a circular economy and sustainable climate future. It provides actionable intelligence for manufacturers, investors, and government agencies tracking these rapidly evolving markets.

Contents

1 RESEARCH METHODOLOGY

2 BIO-BASED FEEDSTOCKS AND INTERMEDIATES MARKET

2.1 BIOREFINERIES

2.2 BIO-BASED FEEDSTOCK AND LAND USE

2.3 PLANT-BASED

2.3.1 STARCH

2.3.1.1 Overview

2.3.1.2 Sources

2.3.1.3 Global production

2.3.1.4 Lysine

2.3.1.4.1 Sources

2.3.1.4.2 Applications

2.3.1.4.3 Global production

2.3.1.5 Glucose

2.3.1.5.1 HMDA

2.3.1.5.1.1 Overview

2.3.1.5.1.2 Sources

2.3.1.5.1.3 Applications

2.3.1.5.1.4 Global production

2.3.1.5.2 DN5

2.3.1.5.2.1 Overview

2.3.1.5.2.2 Sources

2.3.1.5.2.3 Applications

2.3.1.5.2.4 Global production

2.3.1.5.3 Sorbitol

2.3.1.5.3.1 Isosorbide

2.3.1.5.3.1.1 Overview

2.3.1.5.3.1.2 Sources

2.3.1.5.3.1.3 Applications

2.3.1.5.3.1.4 Global production

2.3.1.5.4 Lactic acid

2.3.1.5.4.1 Overview

2.3.1.5.4.2 D-lactic acid

2.3.1.5.4.3 L-lactic acid

2.3.1.5.4.4 Lactide

- 2.3.1.5.5 Itaconic acid
 - 2.3.1.5.5.1 Overview
 - 2.3.1.5.5.2 Sources
 - 2.3.1.5.5.3 Applications
 - 2.3.1.5.5.4 Global production
- 2.3.1.5.6 3-HP
 - 2.3.1.5.6.1 Overview
 - 2.3.1.5.6.2 Sources
 - 2.3.1.5.6.3 Applications
 - 2.3.1.5.6.4 Global production
 - 2.3.1.5.6.5 Acrylic acid
 - 2.3.1.5.6.5.1 Overview
 - 2.3.1.5.6.5.2 Applications
 - 2.3.1.5.6.5.3 Global production
 - 2.3.1.5.6.6 1,3-Propanediol (1,3-PDO)
 - 2.3.1.5.6.6.1 Overview
 - 2.3.1.5.6.6.2 Applications
 - 2.3.1.5.6.6.3 Global production
- 2.3.1.5.7 Succinic Acid
 - 2.3.1.5.7.1 Overview
 - 2.3.1.5.7.2 Sources
 - 2.3.1.5.7.3 Applications
 - 2.3.1.5.7.4 Global production
 - 2.3.1.5.7.5 1,4-Butanediol (1,4-BDO)
 - 2.3.1.5.7.5.1 Overview
 - 2.3.1.5.7.5.2 Applications
 - 2.3.1.5.7.5.3 Global production
 - 2.3.1.5.7.6 Tetrahydrofuran (THF)
 - 2.3.1.5.7.6.1 Overview
 - 2.3.1.5.7.6.2 Applications
 - 2.3.1.5.7.6.3 Global production
- 2.3.1.5.8 Adipic acid
 - 2.3.1.5.8.1 Overview
 - 2.3.1.5.8.2 Caprolactame
 - 2.3.1.5.8.2.1 Overview
 - 2.3.1.5.8.2.2 Applications
 - 2.3.1.5.8.2.3 Global production
- 2.3.1.5.9 Isobutanol
 - 2.3.1.5.9.1 Overview

- 2.3.1.5.9.2 Sources
- 2.3.1.5.9.3 Applications
- 2.3.1.5.9.4 Global production
- 2.3.1.5.9.5 1,4-Butanediol
 - 2.3.1.5.9.5.1 Overview
 - 2.3.1.5.9.5.2 Applications
 - 2.3.1.5.9.5.3 Global production
- 2.3.1.5.9.6 p-Xylene
 - 2.3.1.5.9.6.1 Overview
 - 2.3.1.5.9.6.2 Sources
 - 2.3.1.5.9.6.3 Applications
 - 2.3.1.5.9.6.4 Global production
 - 2.3.1.5.9.6.5 Terephthalic acid
 - 2.3.1.5.9.6.6 Overview
- 2.3.1.5.10 1,3 Propanediol
 - 2.3.1.5.10.1 Overview
 - 2.3.1.5.10.2 Sources
 - 2.3.1.5.10.3 Applications
 - 2.3.1.5.10.4 Global production
- 2.3.1.5.11 MEG
 - 2.3.1.5.11.1 Overview
 - 2.3.1.5.11.2 Sources
 - 2.3.1.5.11.3 Applications
 - 2.3.1.5.11.4 Global production
- 2.3.1.5.12 Ethanol
 - 2.3.1.5.12.1 Overview
 - 2.3.1.5.12.2 Sources
 - 2.3.1.5.12.3 Applications
 - 2.3.1.5.12.4 Global production
 - 2.3.1.5.12.5 Ethylene
 - 2.3.1.5.12.5.1 Overview
 - 2.3.1.5.12.5.2 Applications
 - 2.3.1.5.12.5.3 Global production
 - 2.3.1.5.12.5.4 Propylene
 - 2.3.1.5.12.5.5 Vinyl chloride
 - 2.3.1.5.12.6 Methyl methacrylate
- 2.3.2 SUGAR CROPS
 - 2.3.2.1 Saccharose
 - 2.3.2.1.1 Aniline

- 2.3.2.1.1.1 Overview
- 2.3.2.1.1.2 Applications
- 2.3.2.1.1.3 Global production
- 2.3.2.1.2 Fructose
 - 2.3.2.1.2.1 Overview
 - 2.3.2.1.2.2 Applications
 - 2.3.2.1.2.3 Global production
 - 2.3.2.1.2.4 5-Hydroxymethylfurfural (5-HMF)
 - 2.3.2.1.2.4.1 Overview
 - 2.3.2.1.2.4.2 Applications
 - 2.3.2.1.2.4.3 Global production
 - 2.3.2.1.2.5 5-Chloromethylfurfural (5-CMF)
 - 2.3.2.1.2.5.1 Overview
 - 2.3.2.1.2.5.2 Applications
 - 2.3.2.1.2.5.3 Global production
 - 2.3.2.1.2.6 Levulinic Acid
 - 2.3.2.1.2.6.1 Overview
 - 2.3.2.1.2.6.2 Applications
 - 2.3.2.1.2.6.3 Global production
 - 2.3.2.1.2.7 FDME
 - 2.3.2.1.2.7.1 Overview
 - 2.3.2.1.2.7.2 Applications
 - 2.3.2.1.2.7.3 Global production
 - 2.3.2.1.2.8 2,5-FDCA
 - 2.3.2.1.2.8.1 Overview
 - 2.3.2.1.2.8.2 Applications
 - 2.3.2.1.2.8.3 Global production
- 2.3.3 LIGNOCELLULOSIC BIOMASS
 - 2.3.3.1 Levoglucosenone
 - 2.3.3.1.1 Overview
 - 2.3.3.1.2 Applications
 - 2.3.3.1.3 Global production
 - 2.3.3.2 Hemicellulose
 - 2.3.3.2.1 Overview
 - 2.3.3.2.2 Biochemicals from hemicellulose
 - 2.3.3.2.3 Global production
 - 2.3.3.2.4 Furfural
 - 2.3.3.2.4.1 Overview
 - 2.3.3.2.4.2 Applications

- 2.3.3.2.4.3 Global production
- 2.3.3.2.4.4 Furfuyl alcohol
 - 2.3.3.2.4.4.1 Overview
 - 2.3.3.2.4.4.2 Applications
 - 2.3.3.2.4.4.3 Global production
- 2.3.3.3 Lignin
 - 2.3.3.3.1 Overview
 - 2.3.3.3.2 Sources
 - 2.3.3.3.3 Applications
 - 2.3.3.3.3.1 Aromatic compounds
 - 2.3.3.3.3.1.1 Benzene, toluene and xylene
 - 2.3.3.3.3.1.2 Phenol and phenolic resins
 - 2.3.3.3.3.1.3 Vanillin
 - 2.3.3.3.3.2 Polymers
 - 2.3.3.3.4 Global production
- 2.3.4 PLANT OILS
 - 2.3.4.1 Overview
 - 2.3.4.2 Glycerol
 - 2.3.4.2.1 Overview
 - 2.3.4.2.2 Applications
 - 2.3.4.2.3 Global production
 - 2.3.4.2.4 MPG
 - 2.3.4.2.4.1 Overview
 - 2.3.4.2.4.2 Applications
 - 2.3.4.2.4.3 Global production
 - 2.3.4.2.5 ECH
 - 2.3.4.2.5.1 Overview
 - 2.3.4.2.5.2 Applications
 - 2.3.4.2.5.3 Global production
 - 2.3.4.3 Fatty acids
 - 2.3.4.3.1 Overview
 - 2.3.4.3.2 Applications
 - 2.3.4.3.3 Global production
 - 2.3.4.3.4 PHA
 - 2.3.4.3.4.1 Overview
 - 2.3.4.3.4.2 Applications
 - 2.3.4.3.4.3 Global production
 - 2.3.4.4 Castor oil
 - 2.3.4.4.1 Overview

- 2.3.4.4.2 Sebacic acid
 - 2.3.4.4.2.1 Overview
 - 2.3.4.4.2.2 Applications
 - 2.3.4.4.2.3 Global production
- 2.3.4.4.3 11-Aminoundecanoic acid (11-AA)
 - 2.3.4.4.3.1 Overview
 - 2.3.4.4.3.2 Applications
 - 2.3.4.4.3.3 Global production
- 2.3.4.5 Dodecanedioic acid (DDDA)
 - 2.3.4.5.1 Overview
 - 2.3.4.5.2 Applications
 - 2.3.4.5.3 Global production
- 2.3.4.6 Epichlorohydrin (ECH)
 - 2.3.4.6.1 Overview
 - 2.3.4.6.2 Applications
 - 2.3.4.6.3 Global production
- 2.3.4.7 Pentamethylene diisocyanate
 - 2.3.4.7.1 Overview
 - 2.3.4.7.2 Applications
 - 2.3.4.7.3 Global production
- 2.3.5 NON-EDIBLE MILK
 - 2.3.5.1 Casein
 - 2.3.5.1.1 Overview
 - 2.3.5.1.2 Applications
 - 2.3.5.1.3 Global production
- 2.4 WASTE
 - 2.4.1 Food waste
 - 2.4.1.1 Overview
 - 2.4.1.2 Products and applications
 - 2.4.1.3 Global production
 - 2.4.2 Agricultural waste
 - 2.4.2.1 Overview
 - 2.4.2.2 Products and applications
 - 2.4.2.3 Global production
 - 2.4.3 Forestry waste
 - 2.4.3.1 Overview
 - 2.4.3.2 Products and applications
 - 2.4.3.3 Global production
 - 2.4.4 Aquaculture/fishing waste

- 2.4.4.1 Overview
- 2.4.4.2 Products and applications
- 2.4.4.3 Global production
- 2.4.5 Municipal solid waste
 - 2.4.5.1 Overview

I would like to order

Product name: The Global Market for Renewable and Sustainable Materials 2024-2034

Product link: <https://marketpublishers.com/r/G48A3B429013EN.html>

Price: US\$ 2,115.00 (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/G48A3B429013EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970