

The Global Market for Bioplastics and Advanced (Chemical) Plastics Recycling 2024-2034

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Abstracts

Innovation in bioplastics and plastics recycling is spurring a renaissance in the petrochemical industry, with the latest technologies reinventing plastic and making waste plastic a new resource. The Global Market for Bioplastics and Advanced (Chemical) Plastics Recycling 2024-2034 provides a comprehensive analysis of the global bio-based feedstocks, bio-based plastics, and advanced chemical recycling markets. It covers key trends, drivers, latest developments, production capacities, producers, and market segmentation. The report analyses major feedstocks like starch, sugar crops, plant oils, lignocellulosic biomass, waste streams, algae etc and the key bio-based chemicals produced from them. Market demand projections are provided for chemicals like lactic acid, FDCA, acrylic acid, succinic acid, 1,4-butanediol etc to 2034.

An extensive section is dedicated to the global bio-based and biodegradable plastics market, segmented by types including PLA, PHA, PBS, bio-PET etc. It includes production capacities by leading manufacturers, SWOT analysis, price trends and demand forecast by end-user markets like packaging, automotive, textiles, agriculture etc.

The report also covers technologies in advanced chemical recycling including pyrolysis, gasification, glycolysis, enzymatic processes etc. Profiles are provided of key companies active in these spaces along with their production capacities. An in-depth demand analysis is provided for chemical recycling by region and polymer type through 2040. The role of natural fibers as sustainable reinforcements is also explored including typical properties, manufacturing processes, applications and market statistics.

Report contents include:

Global production capacities and demand forecasts for major bio-based feedstocks like starch, sugar crops, oils, lignocellulosic biomass etc up to 2034

Production projections for key platform chemicals such as lactic acid, FDCA, acrylic acid, 1,4-butanediol, succinic acid etc derived from bio-based feedstocks

Market analysis, applications, producers and production capacities for biobased plastics including PLA, PHA, PBS, bio-PET, bio-PE, bio-PP

Role and demand for bioplastics in major end-user markets: packaging, textiles, automotive, agriculture, building & construction

Latest technologies and leading companies active in advanced (chemical) plastic recycling markets

Capacity expansions and anticipated demand growth for chemical recycling techniques: pyrolysis, gasification, enzymatic, etc by region and polymer type

Applications and market overview of natural fiber reinforced biocomposites

Comprehensive profiles of over 800 companies active across production, R&D and commercialization of bio-based chemicals, bioplastics and advanced recycling technologies. Companies profiled include Agilyx, APK?AG, Aquafil, Avantium, BASF, Biome Bioplastics, Braskem, Buyo, Carbios, Corsair, Danimer Scientific, Eastman, Extractive, FabricNano, FlexSea, Floreon, Fych Technologies, Garbo, gr3n SA, Hyundai Chemical Ioniqa, Itero, Licella, LyondellBasell, MetaCycler BioInnovations, Mi Terro, Mura Technology, revalyu Resources GmbH, OMV, PlantSwitch, Plastogaz SA, Plastic Energy, Polystyvert, Pyrowave, RePEaT Co., Ltd., Synova, Synpet Technologies, SABIC, Teijin Limited, Verde Bioresins, Versalis, and Xampla.

Global policy landscape and regulations promoting sustainable alternatives to conventional plastics

Comparative life cycle assessments benchmarking eco-profiles of green alternatives against traditional petrochemical routes

Market challenges and opportunities in scaling up environment-friendly solutions aligned with principles of circular economy

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