

Sustainable Manufacturing Market by Offering (Recycled Lithium Ion Batteries, Recycled Metals, Recycled Plastics, Recycled Carbon Fiber, Natural Fiber Composites, Bioplastics & Biopolymers, Water Recycle & Reuse) and Region - Global Forecast to 2029

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Abstracts

The global sustainable manufacturing market was valued at USD 215.4 billion in 2024 and is estimated to reach USD 367.2 billion by 2029, registering a CAGR of 11.3% during the forecast period. The sustainable manufacturing market rapidly expands due to regulatory requirements, consumer demand, technological advancements, and economic incentives. Manufacturers automate processes, personalize products, and increase efficiency in their production with the efficient use of resources and implementation of practices such as waste reduction, energy efficiency, and recycling.

“Recycled metals to contribute significant share in sustainable manufacturing market.”

Recycled metals such as steel and aluminum play a significant role in the sustainable manufacturing market because they reduce energy use, lower emissions, and conserve natural resources. Using recycled metals requires far less energy than producing new metals from raw materials, leading to substantial reductions in carbon emissions and energy consumption. Additionally, recycling metals helps decrease the environmental impact associated with mining and raw material extraction and divert waste from landfills. Recycled metals offer a cost-effective and eco-friendly alternative for manufacturers, who can integrate these materials into products to meet sustainability goals and satisfy consumer demand for greener products. Overall, using recycled metals supports the circular economy by extending the life cycle of materials and

promoting resource efficiency.

“Bioplastics & biopolymers segment contribute significant growth rate in the sustainable manufacturing market.”

Bioplastics and biopolymers are expected to grow significantly in the sustainable manufacturing market due to their renewable feedstocks, lower carbon footprint, and biodegradability. Regulatory support, including policies promoting sustainable materials and discouraging single-use plastics, boosts adoption. Rising consumer demand for eco-friendly products, technology innovation, and research expanding their applications also contribute to their growth. Additionally, bioplastics and biopolymers support the circular economy by enabling closed-loop systems for resource efficiency and waste reduction. These factors drive their increasing use as sustainable alternatives to traditional plastics..

“North America to contribute significant growth rate in sustainable manufacturing market.”

In recent years, North America has witnessed several transformative initiatives aligned with Sustainable manufacturing principles. In North America, this transition is facilitated by several factors, including a strong ecosystem of technology companies, research institutions, innovative startups, robust infrastructure, and a skilled workforce. Moreover, North America, particularly the US and Canada, has seen a tightening of environmental regulations and standards related to emissions, waste management, and energy efficiency. Programs like the Clean Air Act in the United States and various provincial regulations in Canada are encouraging sustainable practices. A joint program of the U.S. Environmental Protection Agency (EPA) and the Department of Energy (DOE), Energy Star promotes energy-efficient products and practices. Initiatives like the Regional Greenhouse Gas Initiative (RGGI) and the Western Climate Initiative (WCI) provide frameworks for carbon trading, incentivizing companies to reduce emissions.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the sustainable manufacturing market place.

By Company Type: Tier 1 – 40%, Tier 2 – 35%, and Tier 3 – 25%

By Designation: C-level Executives – 48%, Directors – 33%, and Others – 19%

By Region: North America– 35%, Europe – 18%, Asia Pacific– 40% and RoW- 7%

Veolia (France), Umicore (Belgium), Braskem (Brazil), Cirba Solutions (US), and NatureWorks (US), among others, are some of the key players in the sustainable manufacturing market.

The study includes an in-depth competitive analysis of these key players in the sustainable manufacturing market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This research report categorizes the Sustainable manufacturing market by offering, application, and region (North America, Europe, Asia Pacific, and RoW). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the sustainable manufacturing market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; Contracts, partnerships, agreements. New product and service launches, acquisitions, and recent developments associated with the sustainable manufacturing market. Competitive analysis of upcoming startups in the sustainable manufacturing market ecosystem is covered in this report.

Reasons to buy this report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the sustainable manufacturing market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

This new version of the report on the Sustainable manufacturing market includes the following:

Market size from 2020 to 2029

Average selling prices (ASPs) of bioplastics & biopolymers (an offering sub-segment of Sustainable manufacturing) calculated by the weighted average method

Updated research assumptions and limitations

Information related to trends/disruptions impacting businesses of customers, as well as information on the ecosystem of sustainable manufacturing, trade analysis, regulatory analyses, technology analysis, patents analysis, and case studies pertaining to the sustainable manufacturing market.

Updated financial information until 2023 (depending on the availability) for each listed company, which helps in the easy analysis of the present status of the profiled companies in terms of their financial strength, profitability, key revenue-generating regions/countries, and the highest revenue-generating business segments.

Recent developments that help assess market trends and growth strategies adopted by leading market players

Key manufacturers offering sustainable manufacturing solutions; key 25 providers, which are categorized into star, pervasive, emerging leader, and participant companies based on their performance on various parameters such as product footprint, focus on product innovations, and geographic footprint.

Market share analysis of various players operating in the sustainable manufacturing market for 2022

Small- and medium-sized enterprises (SME) matrix that brief some business strategies and product offerings of 15 SME players operating in the market, which are classified into four groups: progressive, dynamic, responsive companies, and starting blocks

Brief information regarding the competitive situations and trends in the Sustainable manufacturing market

The product, application, and geographic footprints of the key 25 providers of sustainable manufacturing market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the sustainable manufacturing market

Market Development: Comprehensive information about lucrative markets – the report analyses the sustainable manufacturing market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the sustainable manufacturing market

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Veolia , Umicore, Braskem, Cirba Solutions, NatureWorks among others in the sustainable manufacturing market.

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