

Municipal Solid Waste Management Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Waste Type (Organic Waste, Plastic Waste, Paper & Cardboard Waste, Glass Waste, Metal Waste, Others), By Service Type (Collection & Transportation, Recycling, Treatment & Disposal, Segregation & Storage, Waste-to-Energy), By Technology (Mechanical Biological Treatment, Anaerobic Digestion, Gasification, Pyrolysis, Recycling Technologies, Landfill Technologies), By End-User Industry (Residential, Commercial, Others), By Region, and By Competition, 2020-2030F

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Abstracts

Market Overview

The Global Municipal Solid Waste Management (MSWM) Market was valued at USD 114.06 billion in 2024 and is projected to reach USD 157.88 billion by 2030, growing at a CAGR of 5.41% during the forecast period. The market is experiencing notable growth driven by expanding urbanization, increasing population, and heightened awareness of environmental sustainability. As cities grow, the volume of municipal waste surges, necessitating efficient and scalable waste management strategies. Governments and municipal authorities are prioritizing the modernization of waste systems to reduce pollution, comply with regulatory mandates, and enhance public health standards. Integrated waste management solutions—encompassing segregation, recycling,

composting, and energy recovery—are gaining traction, supported by investments in infrastructure like material recovery facilities, waste-to-energy plants, and compost units. Technological integration through IoT sensors, smart bins, and AI-driven sorting is improving waste processing and operational efficiency. Initiatives such as India's Swachh Bharat Mission and global urban sustainability programs are further propelling the sector. As cities worldwide pursue cleaner and smarter waste practices, the demand for innovative municipal waste management solutions continues to rise.

Key Market Drivers

Rapid Urbanization and Population Growth

The accelerating pace of urbanization and population expansion is a primary driver of the Global Municipal Solid Waste Management Market. By 2050, the UN estimates that nearly 68% of the world's population will reside in urban areas, up from 56% in 2020. This demographic shift is significantly increasing municipal solid waste generation, which currently stands at around 2.01 billion tonnes annually and is projected to grow to 3.40 billion tonnes by 2050. The resulting strain on municipal infrastructure compels cities to expand and modernize their waste collection, segregation, and treatment systems. As urban dwellers produce more packaging, plastic, and food waste, efficient technologies such as IoT-based monitoring and automated collection systems become essential. These advancements enable cities to address mounting waste volumes while improving environmental outcomes. Urbanization thus directly influences the strategic direction of municipal waste policies and investments, reinforcing the need for robust and scalable waste management solutions.

Key Market Challenges

Insufficient Waste Management Infrastructure in Developing Regions

A major challenge in the global MSWM market is the lack of adequate waste management infrastructure, particularly in developing and low-income regions. Many municipalities in Asia, Africa, and Latin America lack the systems required for efficient waste collection, processing, and disposal. According to the World Bank, approximately one-third of the global urban population lacks access to regular waste collection, with this figure increasing in low-income countries. The absence of infrastructure often leads to open dumping and burning of waste, causing severe health and environmental hazards. Municipalities frequently face budgetary constraints and lack the technical expertise needed to build and operate advanced waste treatment facilities such as

recycling centers and waste-to-energy plants. Informal waste sectors, prevalent in many regions, further complicate regulated waste operations. These limitations also inhibit circular economy practices and sustainable waste recovery. Closing this infrastructure gap requires long-term investments, policy support, and capacity-building efforts to ensure inclusive, safe, and efficient municipal waste services.

Key Market Trends

Integration of Digital and Smart Waste Management Solutions

The adoption of digital and smart technologies is emerging as a transformative trend in municipal solid waste management. Cities are increasingly deploying IoT-enabled solutions such as sensor-equipped bins, GPS tracking, and data analytics platforms to optimize waste collection and processing. Smart bins, for instance, use fill-level sensors to streamline collection routes and reduce fuel usage. Leading cities like Singapore and Barcelona have implemented such technologies to improve service efficiency and reduce operational costs. Advanced analytics help forecast waste generation patterns and enhance resource allocation, while mobile apps support public engagement through reporting tools and educational features. Automation and robotics are also being integrated into sorting facilities to improve recovery rates and reduce contamination. Moreover, blockchain technology is beginning to play a role in ensuring transparency and traceability across the waste management lifecycle. These smart solutions not only drive operational excellence but also support broader sustainability and zero-waste goals, making them a key area of innovation and investment.

Key Market Players

Waste Management, Inc.

Republic Services, Inc.

Clean Harbors, Inc.

Stericycle, Inc.

Waste Connections, Inc.

GFL Environmental Inc.

Casella Waste Systems, Inc.

REMONDIS SE & Co. KG

Veolia Environment S.A.

SUEZ S.A.

Report Scope:

In this report, the Global Municipal Solid Waste Management Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Municipal Solid Waste Management Market, By Waste Type:

Organic Waste

Plastic Waste

Paper & Cardboard Waste

Glass Waste

Metal Waste

Others

Municipal Solid Waste Management Market, By Service Type:

Collection & Transportation

Recycling

Treatment & Disposal

Segregation & Storage

Waste-to-Energy

Municipal Solid Waste Management Market, By Technology:

Mechanical Biological Treatment

Anaerobic Digestion

Gasification

Pyrolysis

Recycling Technologies

Landfill Technologies

Municipal Solid Waste Management Market, By End-User Industry:

Residential

Commercial

Others

Municipal Solid Waste Management Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global

Municipal Solid Waste Management Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segm...

Municipal Solid Waste Management Market.

Available Customizations:

Global Municipal Solid Waste Management Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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