

Urban Waste Management Solutions Market Forecasts to 2032 – Global Analysis By Waste Type (Municipal Solid Waste, Industrial Waste, E-Waste, Medical Waste, and Construction & Demolition Waste), Service Type (Collection, Transportation, Disposal, and Recycling), Technology, End User and By Geography

<https://marketpublishers.com/r/UF8ED6F5ADE0EN.html>

Date: September 2025

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: UF8ED6F5ADE0EN

Abstracts

According to Statistics MRC, the Global Urban Waste Management Solutions Market is accounted for \$19.02 billion in 2025 and is expected to reach \$29.18 billion by 2032 growing at a CAGR of 6.3% during the forecast period. The Urban Waste Management Solutions Market involves technologies, services, and infrastructure for efficient collection, processing, recycling, and disposal of municipal solid waste in urban areas. Growing urbanization, environmental regulations, and sustainability initiatives drive market growth. Solutions include smart bins, automated collection vehicles, waste-to-energy technologies, and recycling facilities. Government policies and public-private partnerships support innovation, while rising public awareness about waste segregation and circular economy principles boost market adoption globally.

According to the United Nations Environment Programme (UNEP), cities generate over 2.1 billion tonnes of solid waste annually, and only 55% is managed in an environmentally sound manner, driving demand for smart waste solutions.

Market Dynamics:

Driver:

Increasing urban population

The increasing urban population is a primary driver of the urban waste management solutions market. As more individuals migrate to cities, the volume of municipal solid waste surges, imposing significant challenges on existing waste management infrastructure. Rapid urbanization leads to greater generation of household, commercial, and industrial waste, requiring efficient, scalable solutions. Moreover, growing environmental awareness and stringent government regulations regarding waste disposal amplify the demand for advanced waste management systems. These factors are pushing municipalities and private players to adopt innovative technologies and services, including automated collection systems and smart monitoring solutions, which enhance operational efficiency and reduce environmental impact effectively.

Restraint:

High infrastructure investment costs

Establishing advanced waste management facilities, such as smart collection systems, recycling plants, and IoT-integrated monitoring frameworks, requires substantial capital expenditure. Small municipalities or developing economies often lack the financial resources and technical expertise to implement these systems efficiently. Moreover, high maintenance costs, continuous technology upgrades, and the need for skilled personnel increase operational expenditures. This limits widespread adoption, especially in low-income regions. Additionally, long project timelines and complex regulatory approvals add further financial and administrative burdens, making it difficult for many stakeholders to transition from conventional to modern waste management solutions.

Opportunity:

IoT-enabled waste monitoring solutions

IoT-enabled waste monitoring solutions represent a significant opportunity in the urban waste management market. These solutions allow real-time monitoring of waste bins, collection vehicles, and disposal sites, improving route optimization, reducing fuel consumption, and minimizing operational costs. Smart sensors can detect fill levels and contamination, enabling data-driven decisions for timely collections and efficient resource allocation. Moreover, predictive analytics help in forecasting waste generation trends, enhancing planning and reducing service disruptions. As sustainability gains importance, public and private entities increasingly seek smart solutions to meet

regulatory requirements and improve environmental outcomes.

Threat:

Economic instability impacting funding

Recessions or economic downturns lead to budget cuts in municipal waste management projects and delayed investments in infrastructure upgrades. Private sector players may face liquidity constraints, hindering technology adoption and service expansion. In developing regions, funding shortfalls restrict the deployment of advanced solutions such as automated sorting, waste-to-energy plants, or IoT-based monitoring frameworks. Moreover, fluctuating commodity prices affect the profitability of recycling operations. Financial instability also raises uncertainty in long-term contracts, delaying project execution and impacting the steady growth of the urban waste management solutions market globally.

Covid-19 Impact:

The COVID-19 pandemic disrupted the urban waste management solutions market due to lockdowns, restricted movements, and reduced industrial activity. Healthcare waste volumes surged, placing immense pressure on existing waste handling systems. Many municipalities faced challenges in collecting and processing waste due to labor shortages, safety concerns, and supply chain disruptions. Simultaneously, the pandemic underscored the need for contactless and automated waste management solutions to reduce human exposure. As a result, demand for smart, automated solutions accelerated post-pandemic, emphasizing sustainability and operational resilience. However, financial constraints delayed several planned projects, leading to a temporary market slowdown.

The collection segment is expected to be the largest during the forecast period

The collection segment is expected to account for the largest market share during the forecast period. This is due to the increasing urban population, which significantly amplifies the volume of waste requiring systematic collection. Efficient waste collection is the critical first step in the waste management value chain, directly impacting overall system performance. Municipalities are increasingly adopting automated collection vehicles and IoT-enabled bins to improve collection efficiency, reduce operational costs, and monitor fill levels remotely. Moreover, stringent regulations related to waste handling and public health drive the demand for structured and timely waste collection

services. These factors position the collection segment as the market leader.

The E-Waste segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the E-Waste segment is predicted to witness the highest growth rate. Rapid technological advancement and increased consumer electronics adoption have resulted in exponential growth of electronic waste globally. E-waste comprises hazardous materials, making its proper disposal critical for environmental and human health. Stringent regulations and extended producer responsibility (EPR) schemes encourage the adoption of specialized E-waste management solutions. Advanced recycling technologies, reverse logistics, and data security-compliant disposal methods are driving investments. Furthermore, the rise in awareness about e-waste's environmental impact fuels demand for sustainable and circular economy solutions. This drives strong growth, especially in Asia Pacific, where electronics consumption is booming.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. This is driven by the region's rapid urbanization, high population density, and growing industrial base, especially in countries like China and India. These factors lead to substantial increases in waste generation, necessitating robust waste management infrastructure. Governments in the region are introducing strict regulations and investing in modern technologies such as smart waste bins, automated collection vehicles, and recycling facilities to manage mounting waste volumes. Additionally, rising environmental awareness and international commitments to sustainability further bolster market demand in Asia Pacific, establishing it as the dominant region globally.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. The region's accelerating urbanization, expanding middle-class population, and increasing industrial activities are driving waste generation at an unprecedented rate. In response, both public and private sectors are investing heavily in advanced waste management solutions, including IoT-based monitoring, automation, and efficient recycling systems. Government initiatives focused on sustainable development and circular economy models amplify growth. Moreover, technological advancements and rising awareness about environmental and health impacts of improper waste disposal are motivating adoption. These factors collectively position Asia Pacific as the fastest-

growing market region.

Key players in the market

Some of the key players in Urban Waste Management Solutions Market include Veolia, Suez, Waste Management, Republic Services, Waste Connections, Clean Harbors, Covanta Holding Corporation, Hitachi Zosen Corporation, Remondis, Urbaser, Biffa, GFL Environmental, FCC Environmental Services, Casella Waste Systems, Daiseki, Cleanaway Waste Management, Stericycle, BINGO INDUSTRIES, and Tomra.

Key Developments:

In July 2025, SUEZ and RATP Group joined forces to accelerate sustainable urban mobility through a power purchase agreement, with SUEZ supplying almost 100 GWh of renewable electricity per year from household waste recovery. SIAAP and SUEZ also inaugurated a new biogas production unit at the Seine Aval wastewater treatment plant in Paris.

In June 2025, Veolia revealed an investment to increase hazardous waste treatment capacity by 530,000 tonnes per year by 2030, aiming to meet growing global demand and environmental protection needs.

In May 2025, WM opened a \$55 Million Renewable Natural Gas Facility in the Dallas area, marking the first market with two WM RNG sites in one metroplex.

In July 2024, Republic Services partnered with the City of Louisville to replace the city's residential recycling and waste collection fleet with electric trucks by the end of 2024, marking the first fully electric residential collection fleet in the U.S.

Waste Types Covered:

Municipal Solid Waste

Industrial Waste

E-Waste

Medical Waste

Construction & Demolition Waste

Service Types Covered:

Collection

Transportation

Disposal

Recycling

Technologies Covered:

Traditional Methods

Smart Waste Management

Waste-to-Energy Technologies

End Users Covered:

Residential

Commercial

Industrial

Institutional

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 End User Analysis
- 3.8 Emerging Markets
- 3.9 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL URBAN WASTE MANAGEMENT SOLUTIONS MARKET, BY WASTE TYPE

- 5.1 Introduction
- 5.2 Municipal Solid Waste
- 5.3 Industrial Waste
- 5.4 E-Waste
- 5.5 Medical Waste
- 5.6 Construction & Demolition Waste

6 GLOBAL URBAN WASTE MANAGEMENT SOLUTIONS MARKET, BY SERVICE TYPE

- 6.1 Introduction
- 6.2 Collection
- 6.3 Transportation
- 6.4 Disposal
- 6.5 Recycling

7 GLOBAL URBAN WASTE MANAGEMENT SOLUTIONS MARKET, BY TECHNOLOGY

- 7.1 Introduction
- 7.2 Traditional Methods
- 7.3 Smart Waste Management
- 7.4 Waste-to-Energy Technologies

8 GLOBAL URBAN WASTE MANAGEMENT SOLUTIONS MARKET, BY END USER

- 8.1 Introduction
- 8.2 Residential
- 8.3 Commercial
- 8.4 Industrial
- 8.5 Institutional

9 GLOBAL URBAN WASTE MANAGEMENT SOLUTIONS MARKET, BY GEOGRAPHY

- 9.1 Introduction

9.2 North America

9.2.1 US

9.2.2 Canada

9.2.3 Mexico

9.3 Europe

9.3.1 Germany

9.3.2 UK

9.3.3 Italy

9.3.4 France

9.3.5 Spain

9.3.6 Rest of Europe

9.4 Asia Pacific

9.4.1 Japan

9.4.2 China

9.4.3 India

9.4.4 Australia

9.4.5 New Zealand

9.4.6 South Korea

9.4.7 Rest of Asia Pacific

9.5 South America

9.5.1 Argentina

9.5.2 Brazil

9.5.3 Chile

9.5.4 Rest of South America

9.6 Middle East & Africa

9.6.1 Saudi Arabia

9.6.2 UAE

9.6.3 Qatar

9.6.4 South Africa

9.6.5 Rest of Middle East & Africa

10 KEY DEVELOPMENTS

10.1 Agreements, Partnerships, Collaborations and Joint Ventures

10.2 Acquisitions & Mergers

10.3 New Product Launch

10.4 Expansions

10.5 Other Key Strategies

11 COMPANY PROFILING

- 11.1 Veolia
- 11.2 Suez
- 11.3 Waste Management
- 11.4 Republic Services
- 11.5 Waste Connections
- 11.6 Clean Harbors
- 11.7 Covanta Holding Corporation
- 11.8 Hitachi Zosen Corporation
- 11.9 Remondis
- 11.10 Urbaser
- 11.11 Biffa
- 11.12 GFL Environmental
- 11.13 FCC Environmental Services
- 11.14 Casella Waste Systems
- 11.15 Daiseki
- 11.16 Cleanaway Waste Management
- 11.17 Stericycle
- 11.18 BINGO INDUSTRIES
- 11.19 Tomra

List Of Tables

LIST OF TABLES

Table 1 Global Urban Waste Management Solutions Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Urban Waste Management Solutions Market Outlook, By Waste Type (2024-2032) (\$MN)

Table 3 Global Urban Waste Management Solutions Market Outlook, By Municipal Solid Waste (2024-2032) (\$MN)

Table 4 Global Urban Waste Management Solutions Market Outlook, By Industrial Waste (2024-2032) (\$MN)

Table 5 Global Urban Waste Management Solutions Market Outlook, By E-Waste (2024-2032) (\$MN)

Table 6 Global Urban Waste Management Solutions Market Outlook, By Medical Waste (2024-2032) (\$MN)

Table 7 Global Urban Waste Management Solutions Market Outlook, By Construction & Demolition Waste (2024-2032) (\$MN)

Table 8 Global Urban Waste Management Solutions Market Outlook, By Service Type (2024-2032) (\$MN)

Table 9 Global Urban Waste Management Solutions Market Outlook, By Collection (2024-2032) (\$MN)

Table 10 Global Urban Waste Management Solutions Market Outlook, By Transportation (2024-2032) (\$MN)

Table 11 Global Urban Waste Management Solutions Market Outlook, By Disposal (2024-2032) (\$MN)

Table 12 Global Urban Waste Management Solutions Market Outlook, By Recycling (2024-2032) (\$MN)

Table 13 Global Urban Waste Management Solutions Market Outlook, By Technology (2024-2032) (\$MN)

Table 14 Global Urban Waste Management Solutions Market Outlook, By Traditional Methods (2024-2032) (\$MN)

Table 15 Global Urban Waste Management Solutions Market Outlook, By Smart Waste Management (2024-2032) (\$MN)

Table 16 Global Urban Waste Management Solutions Market Outlook, By Waste-to-Energy Technologies (2024-2032) (\$MN)

Table 17 Global Urban Waste Management Solutions Market Outlook, By End User (2024-2032) (\$MN)

Table 18 Global Urban Waste Management Solutions Market Outlook, By Residential

(2024-2032) (\$MN)

Table 19 Global Urban Waste Management Solutions Market Outlook, By Commercial

(2024-2032) (\$MN)

Table 20 Global Urban Waste Management Solutions Market Outlook, By Industrial

(2024-2032) (\$MN)

Table 21 Global Urban Waste Management Solutions Market Outlook, By Institutional

(2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

I would like to order

Product name: Urban Waste Management Solutions Market Forecasts to 2032 – Global Analysis By Waste Type (Municipal Solid Waste, Industrial Waste, E-Waste, Medical Waste, and Construction & Demolition Waste), Service Type (Collection, Transportation, Disposal, and Recycling), Technology, End User and By Geography

Product link: <https://marketpublishers.com/r/UF8ED6F5ADE0EN.html>

Price: US\$ 4,150.00 (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/UF8ED6F5ADE0EN.html>