

# **Organic Waste Composting Market Forecasts to 2032 – Global Analysis By Source (Municipal Solid Waste, Animal & Manure Waste, Agricultural Waste, Yard & Garden Waste, Food & Kitchen Waste, Industrial Organic Waste, and Other Sources), Composting Method, Composting Technology, Equipment Type, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Organic Waste Composting Market is accounted for \$6.96 billion in 2025 and is expected to reach \$11.33 billion by 2032 growing at a CAGR of 7.2% during the forecast period. Organic waste composting refers to the controlled breakdown of biodegradable materials including kitchen waste, garden debris, and plant residues by microorganisms in the presence of oxygen. Through this aerobic process, organic matter is converted into stable, nutrient-dense compost that improves soil health, boosts water-holding capacity, and enhances fertility. Composting helps divert waste from landfills, cuts methane emissions, and promotes eco-friendly waste management.

### **Market Dynamics:**

Driver:

Rising demand for organic produce & sustainable agriculture

Farmers and municipalities are increasingly adopting composting practices to enrich soil fertility without relying on synthetic fertilizers. Rising awareness of sustainable agriculture is encouraging the use of compost as a natural soil conditioner that supports

long-term productivity. Composting also helps reduce greenhouse gas emissions by diverting organic waste from landfills. Governments are promoting composting through subsidies, awareness campaigns, and integration into circular economy policies. This convergence of sustainability, food security, and waste management is driving strong momentum in the organic waste composting market.

#### Restraint:

##### Lack of standardization and quality concerns

Differences in feedstock composition, processing methods, and contamination risks often lead to uneven nutrient profiles. Farmers and landscapers sometimes hesitate to adopt compost due to uncertainty about its reliability compared to chemical fertilizers. Regulatory frameworks for compost quality are fragmented across regions, limiting cross-border trade and scalability. Certification programs are emerging, but adoption remains slow and uneven. The lack of standardized testing protocols makes it difficult to ensure consistent performance in agricultural applications.

#### Opportunity:

##### Integration with waste-to-energy

By combining anaerobic digestion and composting, municipalities can maximize resource recovery from organic waste streams. This hybrid approach allows for both renewable energy generation and production of nutrient-rich compost. Emerging technologies are enabling efficient separation of organic fractions, improving scalability of integrated systems. Partnerships between energy companies and waste management firms are driving pilot projects in urban centers. Governments are supporting such initiatives through renewable energy incentives and circular economy policies.

#### Threat:

##### Competition from alternative disposal methods

The alternatives are often perceived as faster or more profitable, particularly in regions with strong energy recovery infrastructure. Incineration reduces waste volume significantly, though it lacks the soil enrichment benefits of composting. Anaerobic digestion is gaining traction due to its ability to produce biogas alongside digestate.

Chemical treatments are being explored for specialized waste streams, further diversifying disposal options. The availability of multiple technologies can divert investment away from composting projects.

#### Covid-19 Impact:

The pandemic disrupted waste collection systems and slowed down composting operations in many regions. Lockdowns led to reduced industrial and commercial organic waste generation, but household waste volumes increased. Supply chain interruptions delayed the rollout of new composting facilities and technologies. Community-driven composting projects gained traction as people sought self-sufficiency during restrictions. Municipalities began exploring decentralized composting models to reduce dependency on centralized facilities. Overall, Covid-19 reshaped priorities, accelerating grassroots adoption while temporarily slowing industrial-scale expansion.

The municipal solid waste segment is expected to be the largest during the forecast period

The municipal solid waste segment is expected to account for the largest market share during the forecast period, due to the sheer volume of organic waste generated by households, restaurants, and public institutions. Composting municipal waste helps reduce landfill burden and supports urban sustainability goals. Cities are increasingly investing in large-scale composting facilities to manage food scraps, yard trimmings, and biodegradable packaging. Public awareness campaigns are encouraging citizens to separate organic waste at source. Technological advancements in sorting and processing are improving efficiency of municipal composting systems.

The residential users segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the residential users segment is predicted to witness the highest growth rate, due to rising consumer awareness about sustainability is driving adoption of home composting practices. Affordable composting bins and community drop-off programs are making participation easier for households. The trend toward urban gardening and organic food production is further boosting residential composting. Educational initiatives are teaching families how to compost effectively and safely. Digital platforms and apps are emerging to guide households in managing organic waste.

### Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. Rapid urbanization and population growth are generating massive volumes of organic waste across the region. Countries like China, India, and Japan are investing heavily in composting infrastructure to address landfill challenges. Government-backed initiatives are promoting composting as part of sustainable agriculture and waste reduction strategies. Cultural practices emphasizing soil health and organic farming align well with composting adoption. Regional innovation includes decentralized composting hubs and integration with smart city projects.

### Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to rising consumer awareness about sustainability and food waste reduction is fueling adoption. Municipalities are implementing curbside composting programs and expanding organic waste collection services. The region is embracing technological innovations such as automated sorting and advanced composting reactors. Trends include integration of composting with renewable energy projects and sustainable packaging initiatives. Venture capital investment is supporting startups focused on decentralized and community-based composting solutions.

### Key players in the market

Some of the key players in Organic Waste Composting Market include Waste Ma, SUEZ, Veolia, Republic Se, Biffa, TOMRA, Recology, Lystek Inte, Komptech, Amandus, Vermeer, Hitachi Zo, Anaergia, McGill Env, and BioHiTech.

### Key Developments:

In October 2025, TotalEnergies and Veolia have signed a memorandum of understanding for further cooperation in several key areas of energy transition and circular economy, in line with their respective approaches to reduce their greenhouse gases emissions and water footprint. This cooperation will benefit the entire industry through the scaling up of innovative processes and the advancement of research into future-oriented challenges.

In October 2025, Biffa has completed a transaction to merge its UK PET recycling operations with Esterform %- %an established UK PET pre-form and bottle

manufacturer. This acquisition creates a sophisticated end-to-end circular PET packaging business ahead of the 2027 launch of the UK's Deposit Return Scheme which is set to drive an increase in PET drinks bottles available for recycling.

#### Sources Covered:

- Municipal Solid Waste
- Animal & Manure Waste
- Agricultural Waste
- Yard & Garden Waste
- Food & Kitchen Waste
- Industrial Organic Waste
- Other Sources

#### Composting Methods Covered:

- Aerobic Composting
- Static Pile Composting
- Anaerobic Composting
- Windrow Composting
- Vermicomposting
- In-vessel Composting

#### Composting Technologies Covered:

- Mechanical Composting Systems

Biological Composting Systems

Automated Composting Units

Tunnel Composters

Drum Composters

Equipment Types Covered:

Compost Turners

Aeration Systems

Shredders & Grinders

Mixing Equipment

Screening Machines

Digesters

Applications Covered:

Agriculture

Landscaping & Horticulture

Biofuel & Biogas Production

Home Gardening

Waste Treatment Facilities

Organic Farming

## Other Applications

### End Users Covered:

Municipalities

Commercial & Industrial Facilities

Farmers & Agriculture Sector

Waste Management Companies

Residential Users

Other End Users

### 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

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