

# Organic Waste Composting Tech Market Forecasts to 2032 - Global Analysis By Component (Systems, Equipment and Services), Deployment Mode, Technology, Application, End User and By Geography

<https://marketpublishers.com/r/O71F4874A0C2EN.html>

Date: January 2026

Pages: 200

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

ID: O71F4874A0C2EN

## Abstracts

According to Statistics MRC, the Global Organic Waste Composting Tech Market is accounted for \$9.22 billion in 2025 and is expected to reach \$19.40 billion by 2032 growing at a CAGR of 11.2% during the forecast period. Organic waste composting technology involves processes that transform biodegradable waste such as food scraps, agricultural residues, and green waste into nutrient-rich compost through controlled biological decomposition. Methods include aerobic composting, in-vessel systems, windrow composting, and vermicomposting. These technologies reduce landfill waste, lower greenhouse gas emissions, and recycle organic matter back into soil. The resulting compost enhances soil fertility, structure, and moisture retention, supporting sustainable agriculture, waste management efficiency, and circular economy initiatives.

### Market Dynamics:

Driver:

Growing Urbanization & Food Waste Generation

Rapid urbanization and rising food consumption are significantly increasing organic waste generation worldwide, driving demand for organic waste composting technologies. Expanding urban populations generate large volumes of food scraps and green waste, placing pressure on landfills and municipal waste systems. Composting technologies offer an efficient solution by diverting biodegradable waste from disposal sites and converting it into valuable compost. Governments and municipalities

increasingly promote composting to manage urban waste sustainably and meet environmental targets, thereby accelerating market growth.

Restraint:

### High Capital & Operational Costs

High capital investment and operational costs act as a major restraint for the market. Advanced composting systems such as in-vessel and automated aerobic units require significant upfront expenditure, specialized infrastructure, and skilled labor. Maintenance, energy consumption, and monitoring costs further increase operational burdens, particularly for small municipalities and developing regions. These financial challenges can delay adoption despite environmental benefits. Limited access to funding and budget constraints among local authorities may restrict market penetration, slowing widespread deployment of composting technologies globally.

Opportunity:

### Advancements in technology

Technological advancements present strong growth opportunities for the market. Innovations such as automated monitoring systems accelerated microbial processes, and smart composting units enhance efficiency and reduce processing time. Improved system designs lower operational complexity and improve scalability for urban and industrial applications. Integration of digital controls and data analytics allows better temperature and oxygen management, improving compost quality. These advancements make composting more cost-effective and attractive, encouraging broader adoption across waste management sectors.

Threat:

### Environmental and climate challenges

Environmental and climate challenges pose notable threats to organic waste composting operations. Extreme weather conditions and excessive rainfall can disrupt composting processes, affecting microbial activity and compost quality. Improper handling may also lead to odor issues, leachate generation, and pest attraction, raising environmental concerns. Climate variability increases operational risks, especially for open or windrow composting systems. Regulatory scrutiny over emissions and

environmental compliance further intensifies these challenges, potentially increasing costs and limiting adoption.

### **Covid-19 Impact:**

The COVID-19 pandemic disrupted organic waste composting activities due to labor shortages, logistical constraints, and delays in waste collection and processing. Temporary shutdowns of commercial facilities and reduced municipal operations impacted organic waste flow and compost production. However, the pandemic also highlighted the importance of sustainable waste management and circular economy practices. Increased post-pandemic recovery initiatives have renewed focus on composting technologies, supporting long-term market growth as governments invest in resilient, decentralized waste management infrastructure.

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

The agricultural waste segment is expected to account for the largest market share during the forecast period, as large volumes of crop residues and organic by-products generated by farming activities create strong demand for composting solutions. Compost derived from agricultural waste improves soil fertility, enhances moisture retention, and reduces reliance on chemical fertilizers. Widespread agricultural activity, particularly in developing regions, supports continuous feedstock availability. Growing emphasis on sustainable farming and soil health further strengthens adoption of composting technologies.

The aerobic composting segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the aerobic composting segment is predicted to witness the highest growth rate, because this method is widely adopted due to its faster decomposition rates, lower odor generation, and ability to produce high-quality compost. Aerobic systems are suitable for municipal, agricultural, and commercial applications, offering flexibility in scale and design. Technological improvements such as forced aeration and automated controls enhance efficiency and reduce processing time. Increasing preference for environmentally safe and efficient composting methods is driving rapid growth of this segment.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, due to rapid urbanization, expanding agricultural activities, and rising food waste generation drive demand across the region. Governments in countries such as China, India, and Japan actively promote composting to reduce landfill burden and support sustainable agriculture. Increasing investments in waste management infrastructure and growing environmental awareness among municipalities and farmers further contribute to Asia Pacific's dominance in market size.

#### Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to strong regulatory frameworks promoting organic waste diversion, increasing adoption of zero-waste initiatives, and advanced waste management infrastructure support rapid market growth. Municipalities and commercial entities increasingly invest in modern composting technologies to meet sustainability goals. Technological innovation, availability of funding, and growing demand for high-quality compost in agriculture and landscaping further accelerate adoption, positioning North America as the fastest-growing regional market.

#### Key players in the market

Some of the key players in Organic Waste Composting Tech Market include Veolia Environnement S.A., SUEZ Group, Hitachi Zosen Corporation, Waste Management, Inc., Keppel Seghers Engineering Singapore Pte Ltd, Republic Services, Inc., Renewi plc, Cleanaway Waste Management Limited, Stericycle, Inc., REMONDIS SE & Co. KG, Ecomaine, Biffa plc, Bioconversion Technologies, Inc., Advanced Disposal Services, Inc., and Covanta Holding Corporation.

#### Key Developments:

In December 2025, SUEZ, signed two partnership agreements in China during President Macron's state visit, strengthening collaboration in water and waste management to support China's ecological transition. These deals reflect SUEZ's long-standing presence and commitment to local innovation and sustainable infrastructure development across multiple provinces.

In December 2025, SUEZ is expanding water and waste management partnerships in eastern China by signing new initiatives with local authorities in Jiangsu and Shandong provinces to build and operate industrial water treatment facilities, boost resource

recovery and broaden cooperation into infrastructure and waste management, combining local insights with SUEZ's global expertise to support sustainable development and ecological transition in the region.

#### Components Covered:

Systems

Equipment

Services

#### Deployment Modes Covered:

On-Premise

Cloud-Based / IoT Enabled

#### Technologies Covered:

Aerobic Composting

Vermicomposting

Anaerobic Composting

Other Technologies

#### Applications Covered:

Food Waste

Industrial Organic Waste

Yard & Garden Waste

Agricultural Waste

Other Applications

End Users Covered:

Municipal

Residential

Commercial

Agricultural

Industrial

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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