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Food Waste Management Market Research Report - Forecast to 2032

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Description:

Global Food Waste Management Market Overview

The Food Waste Management market industry is projected to grow from USD 40.41 Billion in 2023 to USD 63.45 Billion by 2032, exhibiting a growth rate or CAGR (compound annual growth rate) of 5.8% during the projected timeframe (2023 - 2032). Worldwide Food Waste Management Market Size was estimated at USD 38.2 Billion in 2022. The food service sector is rapidly expanding along with an increase in food waste are the key market drivers that are contributing to market growth and development.

Global Food Waste Management Market Overview

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Food Waste Management Market Trends

The growing food service sector is driving the market growth

The rising food service sector drives market CAGR for food waste management. The rapidly increasing food service business is predicted to fuel the business. Food waste is quite typical in fast-food cafes and other hotel chains. In addition, food waste has surged in the dietary supply chain during the last decade, leading to the construction of several systems for food waste recycling that comprises both anaerobic and aerobic digestion processes. Waste from food is prevalent in developing and developing countries. To tackle this issue, authorities in various countries are establishing severe food waste reduction rules and regulations. Dietary waste disposal firms primarily focus on raising consumer awareness about waste from food and handling it in the Asian-Pacific region's expanding economies. The widespread use of cutting-edge technology, which is changing goods into sophisticated products, is one of the important developments in the worldwide market. Major corporations are developing innovative and inventive food waste management strategies to distinguish their goods and remain relevant.

Additionally, the offline distribution method category will be responsible for the most revenue growth due to increasing sales of Food Waste Management through offline retailers. Hotels and dining establishments need help discarding the massive volumes of food waste they produce regularly. Food Waste Administration is a particularly suitable and effective approach for commercial enterprises with substantial recurrent food waste deposits. Hotels and dining establishments pay a lot of funds to throw away food waste in regular trash cans. This is because the waste gathered must be interred for slow breakdown, which is costly depending on the amount.

The market is expected to shrink in 2020 due to the COVID-19 outbreak. It caused havoc in the waste management business. While the virus spread and numerous countries implemented lockdowns, government agencies and municipality garbage collectors were forced to swiftly adapt their management procedures and structures to the changing conditions. Inadequate waste management increases the risk of disease transfer, either through direct contact with untouched or dumped rubbish or indirectly through contamination of water and crops. Although the expected danger of COVID-19 transmission is the primary cause of the decline, other critical elements like supply chain interruptions and a decline in manufacturing and commercial activities are also essential.

For instance, as per FAO, whereas over 1.4 billion tons of food are wasted worldwide yearly, the United States eliminates 40-80 bn pounds yearly. According to the United States Department of Agriculture, the quantity of food discarded in the United States is comparable to 219 pounds of waste/per person, which will benefit the food waste management business. Thus, demand for Food Waste Management is anticipated to increase throughout the projected timeframe due to the rising food service sector. Thus, driving the Food Waste Management market revenue.

Food Waste Management Market Segment Insights

Food Waste Management Processes Insights

The Food Waste Management Market segmentation, based on Processes, includes Aerobic Digestion, Anaerobic Digestion, Combustion, and others. The anaerobic digestion category dominated the market, accounting for 42% of market revenue (USD 16 Billion) in 2022. Climate or price fluctuations do not affect the energy generated through anaerobic digestion. It is seen as a profitable source of power and an attractive substitute for fossil fuels.

Figure 1: Global Food Waste Management Market, by Type, 2022 & 2032 (USD Billion)

Global Food Waste Management Market, by Type, 2022 & 2032 (USD Billion)

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Food Waste Management Waste Type Insights

The Food Waste Management Market segmentation, based on Waste types, includes Food Production Waste, Food Processing Waste, Distribution and Supply Chain Waste, Retail Waste, Consumption Waste, Household, and Food Services. The household category generated the highest market revenue of about 38% (USD 14.5 billion) in 2022. Food waste caused by homes will increase due to a fast-rising population and shifting consumer behaviors such as excessive purchasing, excessive meal preparation, inadequate food management, and a lack of culinary skills.

Food Waste Management End-Use Insights

The Food Waste Management Market segmentation, based on End-Use, includes Animal Feed, Fertilizer, Renewable Energy & Biofuels, and others. The animal feed segment dominated the market, accounting for 46% of market revenue (USD 17.6 Billion) in 2022. Because food waste may be immediately utilized as feed for animals or treated using processing technology and then given to livestock without further expense, trash in animal feed is significantly greater than waste in other kinds of food waste uses.

Food Waste Management Regional Insights

By region, the research provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The North American Food Waste Management market will dominate during the projected timeframe, owing to expanding waste management assistance and activities, including residential properties, institutional, business premises, and manufacturing waste storage to minimize waste, boosting the market growth in the North American area.

Further, the major countries studied in the market report are the US, Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: Food Waste Management Market Share by Region 2022 (USD Billion)

Food Waste Management Market Share by Region 2022 (USD Billion)

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Europe region's Food Waste Management market accounts for the second-highest market share due to the pace of expansion, which has strengthened due to favorable economic circumstances and improved awareness. Further, the German Food Waste Management market holds the biggest market share, and the UK Food Waste Management market is expected to grow and expand significantly in the European region during the projected timeframe.

The Asia-Pacific Food Waste Management Market is expected to grow quickly during the projected timeframe. The Asia Pacific area has the greatest growth in the management of the food waste industry due to inappropriate food management, excessive production, and food waste neglect all at once. Moreover, China's Food Waste Management market dominates the market share, and the Indian Food Waste Management market is expected to expand and grow steadily in the Asia-Pacific region during the projected timeframe.

Food Waste Management Key Market Players & Competitive Insights

Leading market players invested heavily in research and Development (R&D) to scale up their manufacturing units and develop technologically advanced solutions, which will help the Food Waste Management market grow worldwide. Market participants are also undertaking various organic or inorganic strategic approaches to strengthen and expand their global footprint, with significant market developments including new Processes portfolios, contractual deals, mergers and acquisitions, capital expenditure, higher investments, and strategic alliances with other organizations. Businesses are also coming up with marketing strategies such as digital marketing, social media influencing, and content marketing to increase their scope of profit earnings. The Food Waste Management industry must offer cost-effective and sustainable options to survive in a highly fragmented and dynamic market climate.

Manufacturing locally to minimize operational expenses and offer aftermarket services to customers

is one of the critical business strategies organizations use in the global Food Waste Management industry to benefit customers and capture untapped market share and revenue. The Food Waste Management industry has recently offered significant advantages to the Industrial Automation & Equipment industry. Moreover, more industry participants are utilizing and adopting cutting-edge technology has grown substantially. Major players in the Food Waste Management market, including Andritz Ag (Austria), Waste Management, Inc. (U.S.), Veolia Environnement S.A. (France), Republic Services, Inc. (U.S.), Stericycle, Inc. (U.S.), Covanta Holding Corporation (U.S.), and Waste Connections, Inc. (Canada) are attempting to expand market share and demand by investing in R&D operations to produce sustainable and affordable solutions.

Veolia manages the distribution and supply of water systems and services related to waste management. The firm was established on December 23, 1999, and is based in Paris, France. Veolia announced the initial recycling and trash firm to sign on as a facilitating partnership for the UK Food Trash Reduction Pathway program, which aims to assist businesses in reducing waste from food production by 50% by 2030.

3M is a technology business producing industrial, safe, and consumer goods. The firm was formed in 1902 and is based in St. Paul, Minnesota. Clean Harbors joined up with a prominent manufacturing business, 3M, in August 2021, for a new joint endeavor to provide best-in-class rank to the latter's activities in waste treatment and management elements.

Key Companies in the Food Waste Management market include

- Andritz Ag (Austria)
- Waste Management, Inc. (U.S.)
- Veolia Environnement S.A. (France)
- Republic Services, Inc. (U.S.)
- Stericycle, Inc. (U.S.)
- Covanta Holding Corporation (U.S.)
- Waste Connections, Inc. (Canada)

Food Waste Management Industry Developments

August 2021: Clean Harbours joined up with a prominent manufacturing business, 3M, in August 2021, for a new joint endeavor to provide best-in-class rank to the latter's activities in waste treatment and management elements.

January 2020: Veolia announced the initial recycling and trash firm to sign on as a facilitating partnership for the UK Food Trash Reduction Pathway program, which aims to assist businesses in reducing waste from food production by 50% by 2030.

According to the EPA, 63 million tons of food scraps were generated in the organizational, business premises, and housing sectors, with approximately 32% managed through biochemical processes. The procedures include processing, animal feed, land usage, composting, and wastewater.

Food Waste Management Market Segmentation

Food Waste Management Type Outlook

- Aerobic digestion
- Anaerobic digestion
- Combustion
- Others

Food Waste Management Waste type Outlook

- Food production waste
- Food processing waste
- Distribution & supply chain waste
- Retail waste
- Consumption waste

- Household
- Food services

Food Waste Management End-Use Outlook

- Animal feed
- Fertilizer
- Renewable energy
- Biofuels
- Others

Food Waste Management Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

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