

Waste to Energy Market to Reach \$56 Billion by 2032, Driven by Clean Energy Demand and Waste Reduction Efforts

Waste to energy market is projected to hit \$56 Bn by 2032 due to rising urban waste, renewable energy demand, and strong government clean energy policies.

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□ [Waste to Energy Market](#) Outlook: Growth, Trends, and Opportunities to 2032



According to a new report by Allied Market Research, the waste to energy market size was valued at \$35.6 billion in 2022 and is projected to grow to \$56.0 billion by 2032, registering a CAGR of 4.7% from 2023 to 2032. As global urbanization and energy needs rise, converting waste into electricity and heat is emerging as a vital solution for sustainable energy and efficient waste management.

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Allied Market Research

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□ What is Waste to Energy (WtE)?

Waste to Energy (WtE) refers to the process of generating usable energy—typically in the form of electricity, heat, or fuel—from the treatment of waste materials. This dual-

purpose approach tackles growing environmental challenges while contributing to renewable energy generation, reducing dependency on fossil fuels.

□ Regional Insights

□ Asia-Pacific: The Fastest Growing Region

The Asia-Pacific region is experiencing rapid urbanization and industrial expansion, resulting in increased waste production. With a projected CAGR of 5.1%, this region offers enormous growth potential for the waste to energy market. Countries in Southeast Asia are now investing in waste conversion technologies to meet growing energy demands while tackling waste disposal issues.

□□ Europe: The Revenue Leader

Europe dominated the market in 2022, contributing over two-fifths of the total waste to energy market share, with a CAGR of 4.6%. Strong environmental regulations and landfill reduction goals are driving adoption of advanced WtE systems across European nations.

□ Key Drivers of the Waste to Energy Market

Urban Waste Management NeedsIncreasing municipal, agricultural, and industrial waste calls for innovative solutions. WtE technologies offer an effective alternative to traditional landfilling.

Clean Energy TransitionWith global focus shifting toward carbon neutrality and clean energy, waste-to-energy technologies are emerging as essential contributors to the renewable energy mix.

Government Support & Climate PoliciesCountries are enacting stricter waste disposal laws and offering financial incentives to encourage investment in WtE infrastructure.

Diversification of the Energy MixWtE helps reduce reliance on fossil fuels by offering a steady supply of biofuels, syngas, electricity, and heat from waste sources.

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□ Technology Breakdown

□ Thermal Conversion – Leading the Market

The thermal segment, including incineration, gasification, and pyrolysis, accounted for over four-fifths of the market share in 2022.

Incineration involves high-temperature combustion to produce steam, which powers turbines for electricity.

Gasification & Pyrolysis occur in oxygen-limited environments to create syngas or bio-oil, which can be used for power generation or fuel production.

□ Mechanical Biological Treatment (MBT)

MBT uses mechanical processes to separate recyclables and biological treatment methods like composting or anaerobic digestion to produce [biogas](#) or compost from organic waste.

□ Plasma Gasification

A cutting-edge technology, plasma gasification exposes waste to extreme temperatures using plasma torches, breaking it down into hydrogen-rich syngas, usable for electricity or synthetic fuel production.

□ Major Companies in the Waste to Energy Market

Leading players include:

Babcock & Wilcox Enterprises, Inc.

China Everbright Environment Group

Covanta Holding Corporation

Hitachi Zosen Inova AG

Keppel Infrastructure Group

Suez

Veolia

Viridor Limited

Wheelabrator Technologies

MVV Energie AG

Other prominent contributors: EEW Energy from Waste, Fortum Corporation, Waste Management, Inc., Ramboll, Acciona S.A., GFL Environmental, BioHiTech Global, CNIM Group, and Plasco Energy Group.

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□ Future Outlook

As fossil fuels decline in availability and sustainability becomes a global priority, the waste to energy market offers a viable path forward. These technologies not only convert waste into electricity and heat but also support circular economy initiatives by minimizing landfill use and reducing pollution.

The waste to energy market is expected to flourish as countries invest in greener infrastructure and modernize their energy systems to meet 21st-century challenges.

□ Popular Google Search Queries (SEO Keywords):

Here are frequently searched terms to target for better organic ranking:

waste to energy market size 2025

waste to energy market report

top waste to energy companies

incineration vs gasification

waste to energy in Asia Pacific

Europe waste to energy policy

what is waste to energy

renewable energy from waste

waste to energy plant process

advantages of waste to energy

plasma gasification technology

thermal waste to energy systems

WtE market forecast 2023–2032

energy generation from MSW

how waste becomes electricity

government incentives for WtE

WtE in circular economy

role of WtE in net zero goals

Trending Reports in Energy and Power Industry:

Waste Heat Recovery Market

<https://www.alliedmarketresearch.com/waste-heat-recovery-market-A07353>

Waste to Energy Market

<https://www.alliedmarketresearch.com/waste-to-energy-market>

Green Energy Market

<https://www.alliedmarketresearch.com/green-energy-market>

Nuclear Waste Management Market

<https://www.alliedmarketresearch.com/nuclear-waste-management-market>

Hazardous Waste Management Market

<https://www.alliedmarketresearch.com/hazardous-waste-management-market-A53709>

Drilling Waste Management Market

<https://www.alliedmarketresearch.com/drilling-waste-management-market>

Biopower Market

<https://www.alliedmarketresearch.com/biopower-market-A09298>

Coal Gasification Market

<https://www.alliedmarketresearch.com/coal-gasification-market-A10737>

Biomass Gasification Market

<https://www.alliedmarketresearch.com/biomass-gasification-market-A09297>

Biogas Market

<https://www.alliedmarketresearch.com/biogas-market-A08979>

Biogas Plant Market

<https://www.alliedmarketresearch.com/biogas-plant-market-A07217>

About Us

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

David Correa

Allied Market Research

+ 1800-792-5285

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