

Waste to Energy Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global waste to energy market reached a value of US\$ 38.87 Billion in 2021. Looking forward, IMARC Group expects the market to reach a value of US\$ 56.49 Billion by 2027, exhibiting a CAGR of 6.12% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Waste to energy (WSE) refers to the process of converting non-recyclable waste materials into usable heat, fuel, or electricity through processes, such as combustion, gasification, devolatilization, anaerobic digestion, and landfill gas recovery. It relies on different systems or technologies for producing electricity by burning unprocessed municipal solid waste in an incinerator with a boiler and a generator. At present, it is considered a critical component of the waste management system as WSE helps mitigate climate change, reduce greenhouse gases (GHG), and minimize environmental impact and health damages.

Waste to Energy Market Trends:

At present, landfill waste represents a global environmental concern as it causes fires or explosions, contaminates soil and water, and leads to climate change, toxins, leachate, and GHG emissions. This, in confluence with the increasing industrial waste generation every year, represents one of the key factors driving the need for WSE technologies as a sustainable alternative to landfills for waste disposal. These technologies also assist in avoiding methane from landfills, recovering metals for recycling, and offsetting emissions from fossil fuel electrical production. Apart from this, rapid industrialization, rising population, growing urbanization, and the economic expansion of developing

countries are resulting in accelerating rates of municipal solid waste (MSW) production. As a result, governing agencies of numerous countries are undertaking several steps and incorporating WSE technologies to manage the accumulation of MSW and generate energy from its combustion for residential and commercial uses. Furthermore, the launch of new technologies like hydrothermal carbonization (HTC), which fast-tracks the slow process of geothermal conversion of wet waste with an acid catalyst at high pressure, is anticipated to create a favorable market outlook.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global waste to energy market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on technology and waste type.

Breakup by Technology:

- Thermal
- Incineration
- Pyrolysis
- Gasification
- Biochemical
- Others

Breakup by Waste Type:

- Municipal Waste
- Process Waste
- Agriculture Waste
- Medical Waste
- Others

Breakup by Region:

- North America
- United States
- Canada
- Asia-Pacific
- China
- Japan

India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being A2A SpA, Babcock & Wilcox Enterprises, Inc., China Everbright International Limited, CNIM, Covanta Holding Corporation, Hitachi Zosen Inova AG, John Wood Group plc, Mitsubishi Heavy Industries Ltd, Ramboll Group A/S, Veolia Environnement S.A. and WIN Waste Innovations.

Key Questions Answered in This Report:

How has the global waste to energy market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global waste to energy market?

What are the key regional markets?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the waste type?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global waste to energy market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL WASTE TO ENERGY MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TECHNOLOGY

- 6.1 Thermal
 - 6.1.1 Market Trends
 - 6.1.2 Key Segments
 - 6.1.2.1 Incineration
 - 6.1.2.2 Pyrolysis
 - 6.1.2.3 Gasification
 - 6.1.3 Market Forecast

6.2 Biochemical

6.2.1 Market Trends

6.2.2 Market Forecast

6.3 Others

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY WASTE TYPE

7.1 Municipal Waste

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Process Waste

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Agriculture Waste

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Medical Waste

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Others

7.5.1 Market Trends

7.5.2 Market Forecast

8 MARKET BREAKUP BY REGION

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

- 8.2.2.1 Market Trends
- 8.2.2.2 Market Forecast
- 8.2.3 India
 - 8.2.3.1 Market Trends
 - 8.2.3.2 Market Forecast
- 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
- 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast

8.4 Latin America

8.4.1 Brazil

8.4.1.1 Market Trends

8.4.1.2 Market Forecast

8.4.2 Mexico

8.4.2.1 Market Trends

8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

9 SWOT ANALYSIS

9.1 Overview

9.2 Strengths

9.3 Weaknesses

9.4 Opportunities

9.5 Threats

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 A2A SpA

13.3.1.1 Company Overview

13.3.1.2 Product Portfolio

13.3.2 Babcock & Wilcox Enterprises, Inc.

13.3.2.1 Company Overview

13.3.2.2 Product Portfolio

13.3.2.3 Financials

13.3.3 China Everbright International Limited

13.3.3.1 Company Overview

13.3.3.2 Product Portfolio

13.3.3.3 Financials

13.3.4 CNIM

13.3.4.1 Company Overview

13.3.4.2 Product Portfolio

13.3.4.3 Financials

13.3.5 Covanta Holding Corporation

13.3.5.1 Company Overview

13.3.5.2 Product Portfolio

13.3.5.3 SWOT Analysis

13.3.6 Hitachi Zosen Inova AG

13.3.6.1 Company Overview

13.3.6.2 Product Portfolio

13.3.7 John Wood Group plc

13.3.7.1 Company Overview

13.3.7.2 Product Portfolio

13.3.7.3 Financials

13.3.7.4 SWOT Analysis

13.3.8 Mitsubishi Heavy Industries Ltd

13.3.8.1 Company Overview

13.3.8.2 Product Portfolio

13.3.8.3 Financials

13.3.8.4 SWOT Analysis

13.3.9 Ramboll Group A/S

13.3.9.1 Company Overview

13.3.9.2 Product Portfolio

13.3.10 Veolia Environnement S.A.

13.3.10.1 Company Overview

13.3.10.2 Product Portfolio

13.3.10.3 Financials

13.3.10.4 SWOT Analysis

13.3.11 WIN Waste Innovations

13.3.11.1 Company Overview

13.3.11.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Waste to Energy Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Waste to Energy Market Forecast: Breakup by Technology (in Million US\$), 2022-2027

Table 3: Global: Waste to Energy Market Forecast: Breakup by Waste Type (in Million US\$), 2022-2027

Table 4: Global: Waste to Energy Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 5: Global: Waste to Energy Market: Competitive Structure

Table 6: Global: Waste to Energy Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Waste to Energy Market: Major Drivers and Challenges

Figure 2: Global: Waste to Energy Market: Sales Value (in Billion US\$), 2016-2021

Figure 3: Global: Waste to Energy Market Forecast: Sales Value (in Billion US\$), 2022-2027

Figure 4: Global: Waste to Energy Market: Breakup by Technology (in %), 2021

Figure 5: Global: Waste to Energy Market: Breakup by Waste Type (in %), 2021

Figure 6: Global: Waste to Energy Market: Breakup by Region (in %), 2021

Figure 7: Global: Waste to Energy (Thermal) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 8: Global: Waste to Energy (Thermal) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 9: Global: Waste to Energy (Biochemical) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 10: Global: Waste to Energy (Biochemical) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 11: Global: Waste to Energy (Other Technologies) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 12: Global: Waste to Energy (Other Technologies) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 13: Global: Waste to Energy (Municipal Waste) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 14: Global: Waste to Energy (Municipal Waste) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 15: Global: Waste to Energy (Process Waste) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 16: Global: Waste to Energy (Process Waste) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 17: Global: Waste to Energy (Agriculture Waste) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 18: Global: Waste to Energy (Agriculture Waste) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 19: Global: Waste to Energy (Medical Waste) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 20: Global: Waste to Energy (Medical Waste) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: Waste to Energy (Other Waste Types) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 22: Global: Waste to Energy (Other Waste Types) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 23: North America: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: North America: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: United States: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: United States: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Canada: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Canada: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Asia-Pacific: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Asia-Pacific: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: China: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: China: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Japan: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Japan: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: India: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: India: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: South Korea: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: South Korea: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: Australia: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: Australia: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 41: Indonesia: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 42: Indonesia: Waste to Energy Market Forecast: Sales Value (in Million US\$),

2022-2027

Figure 43: Others: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: Others: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: Europe: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: Europe: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: Germany: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: Germany: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: France: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: France: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: United Kingdom: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: United Kingdom: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: Italy: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: Italy: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: Spain: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: Spain: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: Russia: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: Russia: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: Others: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: Others: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 61: Latin America: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Latin America: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: Brazil: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: Brazil: Waste to Energy Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: Mexico: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: Mexico: Waste to Energy Market Forecast: Sales Value (in Million US\$),

2022-2027

Figure 67: Others: Waste to Energy Market: Sales Value (in Million US\$), 2016 & 2021

Figure 68: Others: Waste to Energy Market Forecast: Sales Value (in Million US\$),
2022-2027

Figure 69: Middle East and Africa: Waste to Energy Market: Sales Value (in Million
US\$), 2016 & 2021

Figure 70: Middle East and Africa: Waste to Energy Market: Breakup by Country (in %),
2021

Figure 71: Middle East and Africa: Waste to Energy Market Forecast: Sales Value (in
Million US\$), 2022-2027

Figure 72: Global: Waste to Energy Industry: SWOT Analysis

Figure 73: Global: Waste to Energy Industry: Value Chain Analysis

Figure 74: Global: Waste to Energy Industry: Porter's Five Forces Analysis

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