

Middle East Plastic To Fuel Market Size, Share & Trends Analysis Report By Technology (Pyrolysis, Depolymerization, Gasification), By Plastic Type, By Source, By End Fuel (Sulfur, Hydrogen, Crude Oil), By Country, And Segment Forecasts, 2025 - 2033

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Abstracts

Middle East Plastic To Fuel Market Summary

The Middle East plastic-to-fuel market size was estimated at USD 7.0 million in 2024 and is projected to reach USD 13.23 million by 2033, growing at a CAGR of 7.4% from 2025 to 2033. With rising concerns over plastic waste management and increasing demand for alternative fuels, plastic-to-fuel (PTF) technology is gaining traction as a dual-solution approach that addresses environmental and energy challenges.

By converting non-recyclable plastics into usable fuels such as diesel, kerosene, and gasoline, PTF projects provide an innovative pathway to reduce landfill dependency while enhancing regional energy security. National agendas such as Saudi Vision 2030, the UAE's Circular Economy Policy 2031, and Qatar's National Vision 2030 create favorable policy environments that encourage investment in waste-to-energy projects, including advanced plastic conversion facilities. Market growth is further propelled by the GCC's rising plastic consumption, high per capita waste generation, and mounting pressure on municipalities to reduce carbon emissions from conventional waste management practices.

Industrial sectors, particularly petrochemicals and transportation, increasingly recognize PTF as a supplementary fuel source supporting decarbonization goals while reducing reliance on imported fossil fuels. Integrating advanced pyrolysis technologies, AI-driven process optimization, and blockchain-enabled supply chain tracking enhances

operational efficiency and fuel quality. Public-private partnerships, green financing initiatives, and collaborations between technology providers and regional energy companies are accelerating deployment. With global players such as Plastic Energy, Agilyx, and Brightmark joining hands with regional champions such as SABIC, Tadweer, and Bee'ah, the Middle East plastic-to-fuel market is positioned to emerge as a critical enabler of the circular economy, sustainability, and energy diversification over the next decade.

Middle East Plastic To Fuel Market Report Segmentation

This report forecasts revenue growth at country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the Middle East plastic to fuel market report based on technology, plastic type, source, end fuel, and country:

Technology Outlook (Revenue, USD Million, 2021 - 2033)

Pyrolysis

Depolymerization

Gasification

Plastic Type Outlook (Revenue, USD Million, 2021 - 2033)

Polyethylene

Polyethylene Terephthalate

Polypropylene

Polyvinyl Chloride

Polystyrene

Others

Source Outlook (Revenue, USD Million, 2021 - 2033)

Municipal Solid Waste (MSW)

Commercial & Industrial Waste

End Fuel Outlook (Revenue, USD Million, 2021 - 2033)

Sulfur

Hydrogen

Crude Oil

Others

Country Outlook (Revenue, USD Million, 2021 - 2033)

Middle East

UAE

Saudi Arabia

Israel

Oman

Qatar

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Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Information Analysis
 - 1.3.2. Market Formulation & Data Visualization
 - 1.3.3. Data Validation & Publishing
- 1.4. Research Scope and Assumptions
 - 1.4.1. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Snapshot
- 2.2. Segmental Outlook
- 2.3. Competitive Outlook

CHAPTER 3. MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Penetration & Growth Prospect Mapping
- 3.3. Value Chain Analysis
- 3.4. Regulatory Framework
 - 3.4.1. Standards & Compliance
 - 3.4.2. Regulatory Impact Analysis
- 3.5. Market Dynamics
 - 3.5.1. Market Driver Analysis
 - 3.5.2. Market Restraint Analysis
 - 3.5.3. Market Opportunities
 - 3.5.4. Market Challenges
- 3.6. Porter's Five Forces Analysis
 - 3.6.1. Bargaining Power of Suppliers
 - 3.6.2. Bargaining Power of Buyers
 - 3.6.3. Threat of Substitution
 - 3.6.4. Threat of New Entrants
 - 3.6.5. Competitive Rivalry
- 3.7. PESTLE Analysis

- 3.7.1. Political
- 3.7.2. Economic
- 3.7.3. Social Landscape
- 3.7.4. Technological
- 3.7.5. Environmental
- 3.7.6. Legal

CHAPTER 4. MIDDLE EAST PLASTIC TO FUEL MARKET: TECHNOLOGY ESTIMATES & TREND ANALYSIS

- 4.1. Middle East Plastic To Fuel Market: Technology Movement Analysis, 2024 & 2033
- 4.2. Pyrolysis
 - 4.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 4.3. Depolymerization
 - 4.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 4.4. Gasification
 - 4.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

CHAPTER 5. MIDDLE EAST PLASTIC TO FUEL MARKET: PLASTIC TYPE ESTIMATES & TREND ANALYSIS

- 5.1. Middle East Plastic To Fuel Market: Plastic Type Movement Analysis, 2024 & 2033
- 5.2. Polyethylene
 - 5.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 5.3. Polyethylene Terephthalate
 - 5.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 5.4. Polypropylene
 - 5.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 5.5. Polyvinyl Chloride
- 5.6. Polystyrene
 - 5.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 5.7. Others

CHAPTER 6. MIDDLE EAST PLASTIC TO FUEL MARKET: SOURCE ESTIMATES & TREND ANALYSIS

- 6.1. Middle East Plastic To Fuel Market: Source Movement Analysis, 2024 & 2033
- 6.2. Municipal Solid Waste (MSW)
 - 6.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

6.3. Commercial & Industrial Waste

6.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

CHAPTER 7. MIDDLE EAST PLASTIC TO FUEL MARKET: END FUEL ESTIMATES & TREND ANALYSIS

7.1. Middle East Plastic To Fuel Market: End Fuel Movement Analysis, 2024 & 2033

7.2. Sulfur

7.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

7.3. Hydrogen

7.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

7.4. Crude Oil

7.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

7.5. Others

CHAPTER 8. MIDDLE EAST PLASTIC TO FUEL MARKET: COUNTRY ESTIMATES & TREND ANALYSIS

8.1. Country Analysis, 2024 & 2033

8.2. Middle East

8.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

8.2.2. Market estimates and forecasts, by technology, 2021 - 2033 (USD Million)

8.2.3. Market estimates and forecasts, by plastic type, 2021 - 2033 (USD Million)

8.2.4. Market estimates and forecasts, by source, 2021 - 2033 (USD Million)

8.2.5. Market estimates and forecasts, by end fuel, 2021 - 2033 (USD Million)

8.2.6. UAE

8.2.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

8.2.6.2. Market estimates and forecasts, by technology, 2021 - 2033 (USD Million)

8.2.6.3. Market estimates and forecasts, by plastic type, 2021 - 2033 (USD Million)

8.2.6.4. Market estimates and forecasts, by source, 2021 - 2033 (USD Million)

8.2.6.5. Market estimates and forecasts, by end fuel, 2021 - 2033 (USD Million)

8.2.7. Saudi Arabia

8.2.7.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

8.2.7.2. Market estimates and forecasts, by technology, 2021 - 2033 (USD Million)

8.2.7.3. Market estimates and forecasts, by plastic type, 2021 - 2033 (USD Million)

8.2.7.4. Market estimates and forecasts, by source, 2021 - 2033 (USD Million)

8.2.7.5. Market estimates and forecasts, by end fuel, 2021 - 2033 (USD Million)

8.2.8. Israel

8.2.8.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

- 8.2.8.2. Market estimates and forecasts, by technology, 2021 - 2033 (USD Million)
- 8.2.8.3. Market estimates and forecasts, by plastic type, 2021 - 2033 (USD Million)
- 8.2.8.4. Market estimates and forecasts, by source, 2021 - 2033 (USD Million)
- 8.2.8.5. Market estimates and forecasts, by end fuel, 2021 - 2033 (USD Million)
- 8.2.9. Oman
 - 8.2.9.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 8.2.9.2. Market estimates and forecasts, by technology, 2021 - 2033 (USD Million)
 - 8.2.9.3. Market estimates and forecasts, by plastic type, 2021 - 2033 (USD Million)
 - 8.2.9.4. Market estimates and forecasts, by source, 2021 - 2033 (USD Million)
 - 8.2.9.5. Market estimates and forecasts, by end fuel, 2021 - 2033 (USD Million)
- 8.2.10. Qatar
 - 8.2.10.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 8.2.10.2. Market estimates and forecasts, by technology, 2021 - 2033 (USD Million)
 - 8.2.10.3. Market estimates and forecasts, by plastic type, 2021 - 2033 (USD Million)
 - 8.2.10.4. Market estimates and forecasts, by source, 2021 - 2033 (USD Million)
 - 8.2.10.5. Market estimates and forecasts, by end fuel, 2021 - 2033 (USD Million)

CHAPTER 9. COMPETITIVE LANDSCAPE

- 9.1. Recent Developments By Key Market Participants
- 9.2. Company Categorization
- 9.3. List of Key Component Suppliers & Channel Partners
- 9.4. Company Market Share & Positioning Analysis, 2024
- 9.5. Heat Map Analysis
- 9.6. Vendor Landscape
 - 9.6.1. List of Raw Service Technology Suppliers
 - 9.6.2. List of Distributors/Traders
 - 9.6.3. List of Other Prominent Manufacturers
- 9.7. List of Prospective End Users
- 9.8. Strategy Mapping
- 9.9. Company Profiles/Listing
 - 9.9.1. Plastic Energy
 - 9.9.1.1. Company Overview
 - 9.9.1.2. Financial Performance
 - 9.9.1.3. Service Technology Benchmarking
 - 9.9.2. Agilyx Corporation
 - 9.9.2.1. Company Overview
 - 9.9.2.2. Financial Performance
 - 9.9.2.3. Service Technology Benchmarking

- 9.9.3. Brightmark Energy
 - 9.9.3.1. Company Overview
 - 9.9.3.2. Financial Performance
 - 9.9.3.3. Service Technology Benchmarking
- 9.9.4. Plastic2Oil Inc.
 - 9.9.4.1. Company Overview
 - 9.9.4.2. Financial Performance
- 9.9.5. RES Polyflow
 - 9.9.5.1. Company Overview
 - 9.9.5.2. Financial Performance
 - 9.9.5.3. Service Technology Benchmarking
- 9.9.6. SABIC
 - 9.9.6.1. Company Overview
 - 9.9.6.2. Financial Performance
 - 9.9.6.3. Service Technology Benchmarking
- 9.9.7. Veolia Middle East
 - 9.9.7.1. Company Overview
 - 9.9.7.2. Financial Performance
 - 9.9.7.3. Service Technology Benchmarking
- 9.9.8. Bee'ah
 - 9.9.8.1. Company Overview
 - 9.9.8.2. Financial Performance
 - 9.9.8.3. Service Technology Benchmarking
- 9.9.9. Enviroserve
 - 9.9.9.1. Company Overview
 - 9.9.9.2. Financial Performance
 - 9.9.9.3. Service Technology Benchmarking
- 9.9.10. Middle East Plastic Industries (MEPICO)
 - 9.9.10.1. Company Overview
 - 9.9.10.2. Financial Performance
 - 9.9.10.3. Service Technology Benchmarking

List Of Tables

LIST OF TABLES

Table 1 Middle East Plastic To Fuel market estimates & forecasts, 2021 - 2033 (USD Million)

Table 2 Pyrolysis market estimates & forecasts, 2021 - 2033 (USD Million)

Table 3 Depolymerization market estimates & forecasts, 2021 - 2033 (USD Million)

Table 4 Gasification market estimates & forecasts, 2021 - 2033 (USD Million)

Table 5 Middle East Plastic To Fuel market estimates & forecasts, in Polyethylene, 2021 - 2033 (USD Million)

Table 6 Middle East Plastic To Fuel market estimates & forecasts, in Polyethylene Terephthalate, 2021 - 2033 (USD Million)

Table 7 Middle East Plastic To Fuel market estimates & forecasts, in Polypropylene, 2021 - 2033 (USD Million)

Table 8 Middle East Plastic To Fuel market estimates & forecasts, in Polyvinyl Chloride, 2021 - 2033 (USD Million)

Table 9 Middle East Plastic To Fuel market estimates & forecasts, in Polystyrene, 2021 - 2033 (USD Million)

Table 10 Middle East Plastic To Fuel market estimates & forecasts, in Others, 2021 - 2033 (USD Million)

Table 11 UAE Plastic To Fuel market estimates & forecast, 2021 - 2033 (USD Million)

Table 12 UAE Plastic To Fuel market estimates & forecasts by technology, 2021 - 2033 (USD Million)

Table 13 UAE Plastic To Fuel market estimates & forecasts by plastic type, 2021 - 2033 (USD Million)

Table 14 UAE Plastic To Fuel market estimates & forecasts by source, 2021 - 2033 (USD Million)

Table 15 UAE Plastic To Fuel market estimates & forecasts by end fuel, 2021 - 2033 (USD Million)

Table 16 Saudi Arabia Plastic To Fuel market estimates & forecasts, 2021 - 2033 (USD Million)

Table 17 Saudi Arabia Plastic To Fuel market estimates & forecasts by technology, 2021 - 2033 (USD Million)

Table 18 Saudi Arabia Plastic To Fuel market estimates & forecasts by plastic type, 2021 - 2033 (USD Million)

Table 19 Saudi Arabia Plastic To Fuel market estimates & forecasts by source, 2021 - 2033 (USD Million)

Table 20 Saudi Arabia Plastic To Fuel market estimates & forecasts by end fuel, 2021 -

2033 (USD Million)

Table 21 Israel Plastic To Fuel market estimates & forecast, 2021 - 2033 (USD Million)

Table 22 Israel Plastic To Fuel market estimates & forecasts by technology, 2021 - 2033 (USD Million)

Table 23 Israel Plastic To Fuel market estimates & forecasts by plastic type, 2021 - 2033 (USD Million)

Table 24 Israel Plastic To Fuel market estimates & forecasts by source, 2021 - 2033 (USD Million)

Table 25 Israel Plastic To Fuel market estimates & forecasts by end fuel, 2021 - 2033 (USD Million)

Table 26 Oman Plastic To Fuel market estimates & forecasts, 2021 - 2033 (USD Million)

Table 27 Oman Plastic To Fuel market estimates & forecasts by technology, 2021 - 2033 (USD Million)

Table 28 Oman Plastic To Fuel market estimates & forecasts by plastic type, 2021 - 2033 (USD Million)

Table 29 Oman Plastic To Fuel market estimates & forecasts by source, 2021 - 2033 (USD Million)

Table 30 Oman Plastic To Fuel market estimates & forecasts by end fuel, 2021 - 2033 (USD Million)

Table 31 Qatar Plastic To Fuel market estimates & forecast, 2021 - 2033 (USD Million)

Table 32 Qatar Plastic To Fuel market estimates & forecasts by technology, 2021 - 2033 (USD Million)

Table 33 Qatar Plastic To Fuel market estimates & forecasts by plastic type, 2021 - 2033 (USD Million)

Table 34 Qatar Plastic To Fuel market estimates & forecasts by source, 2021 - 2033 (USD Million)

Table 35 Qatar Plastic To Fuel market estimates & forecasts by end fuel, 2021 - 2033 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market segmentation
- Fig. 2 Information procurement
- Fig. 3 Data analysis models
- Fig. 4 Market formulation and validation
- Fig. 5 Data validating & publishing
- Fig. 6 Market snapshot
- Fig. 7 Segmental outlook - Technology, Plastic Type, Source & End Fuel
- Fig. 8 Competitive Outlook
- Fig. 9 Middle East Plastic To Fuel market outlook, 2021 - 2033 (USD Million)
- Fig. 10 Value chain analysis
- Fig. 11 Market dynamics
- Fig. 12 Porter's Analysis
- Fig. 13 PESTEL Analysis
- Fig. 14 Middle East Plastic To Fuel market, by technology: Key takeaways
- Fig. 15 Middle East Plastic To Fuel market, by technology: Market share, 2024 & 2033
- Fig. 16 Middle East Plastic To Fuel market, by plastic type: Key takeaways
- Fig. 17 Middle East Plastic To Fuel market, by plastic type: Market share, 2024 & 2033
- Fig. 18 Middle East Plastic To Fuel market, by source: Key takeaways
- Fig. 19 Middle East Plastic To Fuel market, by source: Market share, 2024 & 2033
- Fig. 20 Middle East Plastic To Fuel market, by end fuel: Key takeaways
- Fig. 21 Middle East Plastic To Fuel market, by end fuel: Market share, 2024 & 2033

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