

Middle East Bio-LNG Market Size, Share & Trends Analysis Report By Application (Transportation Fuel, Power Generation), By Source Type (Organic Household Waste, Organic Industrial Waste, Municipal Waste), By Country, And Segment Forecasts, 2025 - 2033

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Abstracts

Middle East Bio-LNG Market Summary

The Middle East bio-LNG market size was estimated at USD 0.28 billion in 2024 and is expected to reach USD 1.50 billion by 2033, growing at a CAGR of 13.0% from 2025 to 2033. Bio-LNG is emerging as a sustainable alternative to conventional fossil fuels, particularly in transport and heavy-duty applications, as regional governments seek to reduce greenhouse gas emissions and meet climate commitments.

Countries including the UAE, Saudi Arabia, Oman, and Qatar are increasingly exploring bio-LNG production from organic waste, agricultural residues, and industrial biomass, aligning with national energy diversification strategies and circular economy initiatives. With abundant feedstock availability and a growing emphasis on decarbonizing shipping and heavy industry, bio-LNG is a key component of the region's long-term clean energy roadmap.

Market expansion is driven by supportive policies, investment incentives, and international partnerships to scale production and distribution. Technological advancements in anaerobic digestion, liquefaction, and carbon capture enhance production efficiency and cost competitiveness. Projects integrating bio-LNG with existing gas infrastructure, ports, and shipping hubs in the UAE, Oman, and Saudi

Arabia are gaining traction, reflecting the fuel's strategic role in regional energy security and export potential. Key industry players, including ADNOC, Masdar, ACWA Power, and global companies exploring sustainable LNG solutions, are advancing pilot and commercial-scale bio-LNG projects, underscoring the market's potential to become a vital element of the Middle East's low-carbon energy transition over the coming decade.

Middle East Bio-LNG Market Report Segmentation

This report forecasts volume & revenue growth at the regional and 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 bio-LNG market report on the basis of application, source type, and country:

Application Outlook (Volume, Kilo Tons; Revenue, USD Million, 2021 - 2033)

Transportation Fuel

Heavy-duty vehicles

Shipping

Power Generation

Others

Source Type Outlook (Volume, Kilo Tons; Revenue, USD Million, 2021 - 2033)

Organic household waste

Organic industrial waste

Municipal waste

Country Outlook (Volume, Kilo Tons; Revenue, USD Million, 2021 - 2033)

Middle East

UAE

Saudi Arabia

Kuwait

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. Source Type
- 3.7.5. Environmental
- 3.7.6. Legal

CHAPTER 4. MIDDLE EAST BIO-LNG MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

- 4.1. Middle East Bio-LNG Market: Application Movement Analysis, 2024 & 2033
- 4.2. Transportation Fuel
 - 4.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 4.2.1.1. Heavy-duty Vehicle
 - 4.2.1.2. Shipping
- 4.3. Power Generation Market estimates and forecasts, 2021 - 2033 (USD Million)
- 4.4. Others Market estimates and forecasts, 2021 - 2033 (USD Million)

CHAPTER 5. MIDDLE EAST BIO-LNG MARKET: SOURCE TYPE ESTIMATES & TREND ANALYSIS

- 5.1. Middle East Bio-LNG Market: Source Type Movement Analysis, 2024 & 2033
- 5.2. Organic household waste
 - 5.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 5.3. Organic industrial waste
 - 5.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 5.4. Municipal waste
 - 5.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

CHAPTER 6. MIDDLE EAST BIO-LNG MARKET: COUNTRY ESTIMATES & TREND ANALYSIS

- 6.1. Country Analysis, 2024 & 2033
- 6.2. Middle East
 - 6.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 6.2.2. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
 - 6.2.3. Market estimates and forecasts, by source type, 2021 - 2033 (USD Million)
 - 6.2.4. UAE
 - 6.2.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

- 6.2.4.2. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
- 6.2.4.3. Market estimates and forecasts, by source type, 2021 - 2033 (USD Million)
- 6.2.5. Saudi Arabia
 - 6.2.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 6.2.5.2. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
 - 6.2.5.3. Market estimates and forecasts, by source type, 2021 - 2033 (USD Million)
- 6.2.6. Kuwait
 - 6.2.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 6.2.6.2. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
 - 6.2.6.3. Market estimates and forecasts, by source type, 2021 - 2033 (USD Million)
- 6.2.7. Oman
 - 6.2.7.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 6.2.7.2. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
 - 6.2.7.3. Market estimates and forecasts, by source type, 2021 - 2033 (USD Million)
- 6.2.8. Qatar
 - 6.2.8.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 6.2.8.2. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
 - 6.2.8.3. Market estimates and forecasts, by source type, 2021 - 2033 (USD Million)

CHAPTER 7. COMPETITIVE LANDSCAPE

- 7.1. Recent Developments By Key Market Participants
- 7.2. Company Categorization
- 7.3. List of Key Component Suppliers & Channel Partners
- 7.4. Company Market Share & Positioning Analysis, 2024
- 7.5. Heat Map Analysis
- 7.6. Vendor Landscape
 - 7.6.1. List of Raw Application Suppliers
 - 7.6.2. List of Distributors/Traders
 - 7.6.3. List of Other Prominent Manufacturers
- 7.7. List of Prospective End Users
- 7.8. Strategy Mapping
- 7.9. Company Profiles/Listing
 - 7.9.1. ADNOC (Abu Dhabi National Oil Company)
 - 7.9.1.1. Company Overview
 - 7.9.1.2. Financial Performance
 - 7.9.1.3. Product Benchmarking
 - 7.9.2. Masdar
 - 7.9.2.1. Company Overview

- 7.9.2.2. Financial Performance
- 7.9.2.3. Product Benchmarking
- 7.9.3. ACWA Power
 - 7.9.3.1. Company Overview
 - 7.9.3.2. Financial Performance
 - 7.9.3.3. Product Benchmarking
- 7.9.4. Oman Oil Company (OQ)
 - 7.9.4.1. Company Overview
 - 7.9.4.2. Financial Performance
 - 7.9.4.3. Product Benchmarking
- 7.9.5. Bee'ah
 - 7.9.5.1. Company Overview
 - 7.9.5.2. Financial Performance
 - 7.9.5.3. Product Benchmarking
- 7.9.6. DP World Energy
 - 7.9.6.1. Company Overview
 - 7.9.6.2. Financial Performance
 - 7.9.6.3. Product Benchmarking
- 7.9.7. Neutral Fuels
 - 7.9.7.1. Company Overview
 - 7.9.7.2. Financial Performance
 - 7.9.7.3. Product Benchmarking
- 7.9.8. Lootah Biofuels
 - 7.9.8.1. Company Overview
 - 7.9.8.2. Financial Performance
 - 7.9.8.3. Product Benchmarking
- 7.9.9. Emirates Biofuel
 - 7.9.9.1. Company Overview
 - 7.9.9.2. Financial Performance
 - 7.9.9.3. Product Benchmarking
- 7.9.10. QatarEnergy
 - 7.9.10.1. Company Overview
 - 7.9.10.2. Financial Performance
 - 7.9.10.3. Product Benchmarking

List Of Tables

LIST OF TABLES

Table 1 Middle East Bio-LNG market estimates & forecasts, 2021 - 2033 (Kilo Tons, USD Million)

Table 2 Transportation Fuel market estimates & forecasts, 2021 - 2033 (Kilo Tons, USD Million)

Table 3 Power Generation market estimates & forecasts, 2021 - 2033 (Kilo Tons, USD Million)

Table 4 Others market estimates & forecasts, 2021 - 2033 (Kilo Tons, USD Million)

Table 5 Middle East Bio-LNG market estimates & forecasts, in Organic household waste, 2021 - 2033 (Kilo Tons, USD Million)

Table 6 Middle East Bio-LNG market estimates & forecasts, in Organic industrial waste, 2021 - 2033 (Kilo Tons, USD Million)

Table 7 Middle East Bio-LNG market estimates & forecasts, in Municipal waste, 2021 - 2033 (Kilo Tons, USD Million)

Table 8 UAE Bio-LNG market estimates & forecast, 2021 - 2033 (Kilo Tons, USD Million)

Table 9 UAE Bio-LNG market estimates & forecasts by application, 2021 - 2033 (Kilo Tons, USD Million)

Table 10 UAE Bio-LNG market estimates & forecasts by source type, 2021 - 2033 (Kilo Tons, USD Million)

Table 11 Saudi Arabia Bio-LNG market estimates & forecasts, 2021 - 2033 (Kilo Tons, USD Million)

Table 12 Saudi Arabia Bio-LNG market estimates & forecasts by application, 2021 - 2033 (Kilo Tons, USD Million)

Table 13 Saudi Arabia Bio-LNG market estimates & forecasts by source type, 2021 - 2033 (Kilo Tons, USD Million)

Table 14 Kuwait Bio-LNG market estimates & forecast, 2021 - 2033 (Kilo Tons, USD Million)

Table 15 Kuwait Bio-LNG market estimates & forecasts by application, 2021 - 2033 (Kilo Tons, USD Million)

Table 16 Kuwait Bio-LNG market estimates & forecasts by source type, 2021 - 2033 (Kilo Tons, USD Million)

Table 17 Oman Bio-LNG market estimates & forecasts, 2021 - 2033 (Kilo Tons, USD Million)

Table 18 Oman Bio-LNG market estimates & forecasts by application, 2021 - 2033 (Kilo Tons, USD Million)

Table 19 Oman Bio-LNG market estimates & forecasts by source type, 2021 - 2033
(Kilo Tons, USD Million)

Table 20 Qatar Bio-LNG market estimates & forecast, 2021 - 2033 (Kilo Tons, USD
Million)

Table 21 Qatar Bio-LNG market estimates & forecasts by application, 2021 - 2033 (USD
Million)

Table 22 Qatar Bio-LNG market estimates & forecasts by source type, 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 - Application & Source Type
- Fig. 8 Competitive Outlook
- Fig. 9 Middle East Bio-LNG market outlook, 2021 - 2033 (Kilo Tons, USD Million)
- Fig. 10 Value chain analysis
- Fig. 11 Market dynamics
- Fig. 12 Porter's Analysis
- Fig. 13 PESTEL Analysis
- Fig. 14 Middle East Bio-LNG market, by application: Key takeaways
- Fig. 15 Middle East Bio-LNG market, by application: Market share, 2024 & 2033
- Fig. 16 Middle East Bio-LNG market, by source type: Key takeaways
- Fig. 17 Middle East Bio-LNG market, by source type: Market share, 2024 & 2033

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