

# Landfill Gas Capture And Utilization Market Outlook 2025-2034: Market Share, and Growth Analysis By Product Type (Landfill Gas, Medium-Btu, Renewable Natural Gas), By Technology (Gas Collection Systems, Gas Treatment), By Application

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## Abstracts

The Landfill Gas Capture And Utilization Market is valued at USD 4 billion in 2025 and is projected to grow at a CAGR of 7.1% to reach USD 7.4 billion by 2034. The landfill gas capture and utilization market involves the collection and conversion of methane-rich gas generated from decomposing organic waste in landfills. This gas, primarily composed of methane and carbon dioxide, is either flared or used to generate electricity, fuel industrial boilers, or refined into renewable natural gas (RNG). With global efforts to reduce greenhouse gas emissions and advance circular economy initiatives, capturing landfill gas has become a viable waste-to-energy solution. Governments and private sector stakeholders view it as a key bridge technology to reduce methane emissions while supporting energy diversification and local grid resilience. The market grew significantly in response to global climate action and methane reduction pledges made under initiatives like the Global Methane Pledge. North America and Europe led new installations, incentivized by carbon credits and clean energy subsidies. Municipalities invested in upgrading existing flaring systems to capture and process gas into electricity or pipeline-quality RNG. Technology providers launched modular, scalable gas recovery units suited for small to mid-size landfills. Integration of IoT sensors and remote monitoring platforms enhanced system performance and leak detection. Voluntary corporate carbon offset programs also drove demand for RNG sourced from landfill gas. The landfill gas market will benefit from increased mandates around methane mitigation and the decarbonization of natural gas pipelines. Biogas purification technologies will become more efficient and cost-effective, enabling higher conversion rates and broader site applicability. RNG produced from

landfill gas will be used to fuel heavy-duty vehicles, public transport, and even as feedstock for green hydrogen production. As land availability decreases and waste management regulations tighten, closed landfills will be retrofitted with gas capture systems. Landfill gas will become a vital component of localized, renewable energy portfolios, particularly in regions lacking access to large-scale solar or wind infrastructure.

## Key Insights Landfill Gas Capture And Utilization Market

Rise in RNG production from landfill gas is supporting clean fuel initiatives in transportation and utilities.

Modular gas collection units are enabling deployment at smaller or remote landfill sites.

Carbon credit markets are incentivizing landfill operators to invest in gas recovery infrastructure.

Digital monitoring tools are improving system efficiency and leak prevention across gas capture operations.

Integration with hydrogen production technologies is being explored for long-term energy transition goals.

Global efforts to reduce methane emissions are creating regulatory pressure to capture landfill gas.

Increased demand for renewable energy is making landfill gas an attractive low-carbon energy source.

Government incentives, tax credits, and carbon offsets are improving project feasibility and ROI.

Growing corporate interest in sustainable energy sourcing is supporting investment in landfill gas-to-RNG systems.

High capital costs and permitting delays can hinder deployment in smaller or under-resourced municipalities.

Variability in landfill gas composition and flow can complicate system design and energy output predictability.

## Landfill Gas Capture And Utilization Market Segmentation

### By Product Type

Landfill Gas

Medium-Btu

Renewable Natural Gas

### By Technology

Gas Collection Systems

Gas Treatment

### By Application

Electricity Generation

Thermal Or Heat Generation

Fuels

### Key Companies Analysed

BP PLC

Veolia Environnement SA

Enbridge Inc.

NextEra Energy Inc.

Waste Management Inc. (WM)

DTE Energy

Republic Services Inc.

CenterPoint Energy Inc.

Waste Connections Inc.

Clean Harbors Inc.

GFL Environmental Inc.

Covanta Holding Corporation

Progressive Waste Solutions Ltd.

Ameresco Inc.

Advanced Disposal Services Inc.

Enerflex Ltd.

Chengtou Holding Co. Ltd.

Casella Waste Systems Inc.

Waste Pro USA Inc

EDL

Wheelabrator Technologies Inc.

Montauk Renewables

QED Environmental Systems Inc.

## Walker Energy Services

### Landfill Gas Capture And Utilization Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

### Landfill Gas Capture And Utilization Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

### Countries Covered

North America — Landfill Gas Capture And Utilization market data and outlook to 2034

United States

Canada

Mexico

## Europe — Landfill Gas Capture And Utilization market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

## Asia-Pacific — Landfill Gas Capture And Utilization market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

## Middle East and Africa — Landfill Gas Capture And Utilization market data and

outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Landfill Gas Capture And Utilization market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

## Research Methodology

This study combines primary inputs from industry experts across the Landfill Gas Capture And Utilization value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

What is the current and forecast market size of the Landfill Gas Capture And Utilization industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Landfill Gas Capture And Utilization Market Report

Global Landfill Gas Capture And Utilization market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Landfill Gas Capture And Utilization trade, costs, and supply chains

Landfill Gas Capture And Utilization market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Landfill Gas Capture And Utilization market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Landfill Gas Capture And Utilization market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Landfill Gas Capture And Utilization supply chain analysis

Landfill Gas Capture And Utilization trade analysis, Landfill Gas Capture And Utilization market price analysis, and Landfill Gas Capture And Utilization supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Landfill Gas Capture And Utilization market news and developments

### Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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