

Landfill Gas Market Size, Share & Trends Analysis Report By Technology (Gas Collection Systems, Electricity Generation Systems, Flaring Systems), By Application, By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global landfill gas market size was valued at USD 5.1 billion in 2025 and is projected to grow from USD 5.3 billion in 2026 to USD 8.8 billion by 2033, at a CAGR of 7.7% from 2026 to 2033. North America dominated the market with the largest revenue share of 38.6% in 2025. The market is primarily driven by increasing regulatory pressure to reduce methane emissions and the growing demand for renewable energy and low-carbon fuels.

Governments across major economies are implementing stringent landfill emission standards, renewable fuel policies, and carbon-reduction targets, thereby encouraging investments in landfill gas capture and utilization systems. The expanding waste-to-energy infrastructure and favorable incentives for renewable natural gas (RNG) production are accelerating global market growth.

The increasing adoption of renewable natural gas presents a major growth opportunity for the landfill gas market. Upgraded landfill gas is increasingly being used for pipeline injection, transportation fuel, and industrial decarbonization applications due to its lower carbon intensity and strong policy support. Rising investments in biomethane upgrading technologies and growing demand for sustainable fuel alternatives are expected to create significant long-term revenue opportunities for market participants.

High capital investment requirements for gas collection, treatment, upgrading, and energy conversion infrastructure remain a key challenge for the landfill gas market. In

addition, variations in landfill composition, methane generation rates, and declining gas output from aging landfill sites can impact project efficiency and profitability. Limited waste management infrastructure and regulatory uncertainties in developing regions may further restrain market expansion.

Global Landfill Gas Market Report Segmentation

This report forecasts revenue growth at global, 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 global landfill gas market report on the basis of technology, application, and region.

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

Gas Collection Systems

Gas Processing & Treatment Systems

Electricity Generation Systems

Combined Heat & Power (CHP) Systems

Renewable Natural Gas (RNG) Upgrading Systems

Flaring Systems

Monitoring & Control Systems

Application Outlook (Revenue, USD Billion, 2021 - 2033)

Electricity Generation

Direct Use / Thermal Applications

Renewable Natural Gas (RNG) / Biomethane

Vehicle Fuel

Industrial Feedstock Applications

Regional Outlook (Revenue, USD Billion, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

France

Italy

Spain

Asia Pacific

China

India

Japan

Latin America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

UAE

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