

# Global Biogas Power Plants Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Biogas Power Plants market size is expected to reach \$ 20170 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

A biogas power plant is a renewable energy facility that utilizes organic waste (such as livestock and poultry manure, kitchen waste, sewage sludge, or landfill gas) under anaerobic conditions to produce biogas, which is then converted into electricity using a gas-fired engine or power generation equipment. It typically consists of an anaerobic digestion system, a gas purification and storage system, and a generator set. These power plants not only produce electricity but also recover heat energy through combined heat and power (CHP) for heating or industrial applications. By combining energy utilization with waste treatment and emission reduction, they are an important component of the circular economy and low-carbon energy system.

Against the backdrop of accelerated global energy transition and the pursuit of 'dual carbon' goals, biogas power plants, as a crucial infrastructure connecting waste treatment and renewable energy production, are ushering in a new round of development opportunities. These projects utilize anaerobic digestion technology to convert livestock manure, kitchen waste, sewage sludge, and landfill gas into biogas, which is then used for power generation or combined heat and power (CHP), achieving the dual value of 'emission reduction + energy supply.' Compared to traditional energy sources, biogas power generation possesses advantages such as renewable nature, dispatchability, and distributed deployment, making it an indispensable and important component of the global energy structure.

From an industry development perspective, biogas power plants exhibit significant resource dependence, leading to differentiated development paths across different

regions. The European market focuses on agricultural biogas and CHP, leveraging a robust subsidy mechanism and mature technological systems to build a highly scaled operational model. The United States centers on landfill gas power generation, forming a development pattern closely integrated with solid waste treatment systems. Meanwhile, China and other emerging markets, with increasingly stringent environmental policies and rising demand for organic waste treatment, are rapidly advancing the construction of agricultural and kitchen waste biogas projects, gradually releasing their market potential.

From a market size and structure perspective, the biogas power generation industry has already formed a market worth tens of billions of US dollars and is expected to maintain rapid growth in the coming years. Currently, combined heat and power (CHP) remains the mainstream application, significantly improving energy efficiency and enhancing project economics. Simultaneously, with the advancement of power market reforms and the gradual improvement of carbon trading mechanisms, the revenue structure of biogas power generation projects is becoming more diversified, including not only electricity revenue but also carbon emission reduction revenue and waste disposal fees, providing solid support for the industry's long-term development.

From a competitive landscape perspective, the biogas power plant market exhibits a coexistence of three main players: energy companies, environmental protection companies, and specialized biogas companies. Integrated energy giants, leveraging their capital and project development capabilities, hold an advantage in large-scale projects; environmental protection companies rely on waste and wastewater treatment resources to build a stable gas supply base; while specialized biogas companies possess deep expertise in technology and project operation. Overall, there is still room for improvement in industry concentration, and companies with resource integration capabilities and operational experience will stand out in the competition.

Looking ahead, the biogas power generation industry will exhibit three major trends: First, technological pathways will continue to be optimized, with high-efficiency power generation equipment and intelligent operation and maintenance improving overall project efficiency; second, the industry will accelerate its development towards a dual-mode of 'power generation + biogas (RNG)' to maximize the value of energy utilization; and finally, driven by both policy and market mechanisms, biogas power generation will play a more important role in the distributed energy system. With the deepening of the circular economy concept and the continuous growth in demand for low-carbon energy, biogas power plants are expected to become a key supporting force in the global energy transition process.

This report studies the global Biogas Power Plants demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biogas Power Plants, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Biogas Power Plants that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Biogas Power Plants total market, 2021-2032, (USD Million)

Global Biogas Power Plants total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Biogas Power Plants total market, key domestic companies, and share, (USD Million)

Global Biogas Power Plants revenue by player, revenue and market share 2021-2026, (USD Million)

Global Biogas Power Plants total market by Type, CAGR, 2021-2032, (USD Million)

Global Biogas Power Plants total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Biogas Power Plants market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Engie, Henan BCCY Environmental Energy, TotalEnergies, EnviTec Biogas, Tus EST, CIP, WELTEC BIOPOWER, Future Biogas, Reverion, Veolia, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Biogas Power Plants market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and

2027-2032 as the forecast year.

#### Global Biogas Power Plants Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Biogas Power Plants Market, Segmentation by Type:

Agricultural Biogas

Landfill Gas

Wastewater Biogas

Industrial / Food Waste

#### Global Biogas Power Plants Market, Segmentation by Power:

5MW

#### Global Biogas Power Plants Market, Segmentation by Utilization Methods:

Power Only

CHP

CCHP

#### Global Biogas Power Plants Market, Segmentation by Application:

Household Electricity

Commercial Electricity

Others

#### Companies Profiled:

Engie

Henan BCCY Environmental Energy

TotalEnergies

EnviTec Biogas

Tus EST

CIP

WELTEC BIOPOWER

Future Biogas

Reverion

Veolia

China Water Industry Group

GAD Environmental Technology

PlanET Biogas

FCC Environment

#### Key Questions Answered

1. How big is the global Biogas Power Plants market?
2. What is the demand of the global Biogas Power Plants market?
3. What is the year over year growth of the global Biogas Power Plants market?
4. What is the total value of the global Biogas Power Plants market?
5. Who are the Major Players in the global Biogas Power Plants market?
6. What are the growth factors driving the market demand?

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