

Biogas Upgrading Technology Market Set to Reach \$5.4 Billion by 2032

□ *Biogas Upgrading Technology Industry Forecast: \$5.4 Billion Market Opportunity by 2032* □

WILMINGTON, DE, UNITED STATES,
August 21, 2025 /EINPresswire.com/ --

□ Biogas Upgrading Technology Industry Overview



According to a new report published by Allied Market Research, the [biogas upgrading technology market](#) was valued at \$1.4 billion in 2022 and is projected to reach \$5.4 billion by 2032, growing at a CAGR of 14.4% from 2023 to 2032.

“

Biogas upgrading technology market to reach \$5.4B by 2032, driven by sustainability, clean energy adoption, and circular economy goals.”

Allied Market Research

Biogas upgrading technologies play a crucial role in converting raw biogas from organic waste and wastewater treatment plants into biomethane, a high-quality renewable natural gas. This process ensures a reliable supply of clean energy that can seamlessly integrate into existing natural gas networks or be used directly for power generation, transportation, and industrial applications.

Download PDF Brochure:

[https://www.alliedmarketresearch.com/request-](https://www.alliedmarketresearch.com/request-sample/A47186)

[sample/A47186](https://www.alliedmarketresearch.com/request-sample/A47186)

□ What is Biogas Upgrading Technology?

Biogas upgrading technology involves advanced processes such as absorption, vacuum pressure swing adsorption, and membrane separation, which purify biogas by removing impurities like carbon dioxide and hydrogen sulfide. The resulting biomethane meets strict purity standards, making it suitable for grid injection, transportation fuels, and thermal applications.

These technologies are vital in supporting circular economy initiatives, reducing carbon emissions, and promoting renewable energy adoption. In regions like Europe and North America, biogas upgrading has become a cornerstone of [waste-to-energy](#) projects and sustainable farming practices, transforming agricultural residues and organic waste into a valuable energy resource.

□ Market Drivers

Several key factors are driving growth in the biogas upgrading technology industry:

Rising Demand for Renewable Energy

Governments worldwide are implementing strict regulations to cut carbon emissions and promote renewable energy adoption.

EU Renewable Energy Directives

Europe has been at the forefront, with ambitious goals to generate significant energy from sustainable sources by 2030, fueling rapid adoption of biogas upgrading technology.

Waste-to-Energy Initiatives

Countries with high levels of agricultural waste and urban wastewater are increasingly adopting biogas upgrading as a sustainable energy solution.

Sustainability & Circular Economy

With industries focusing on reducing environmental impact, biomethane is becoming a preferred renewable energy source for heavy transport and industrial use.

□ Challenges Facing the Market

Despite rapid growth, the biogas upgrading technology market faces challenges such as:

High Initial Costs – Significant capital investment is needed for equipment and infrastructure.

Technical Complexity – Integration with IoT sensors, energy storage, and cybersecurity systems adds complexity.

Maintenance & Expertise – Skilled professionals are required for system operation and ongoing maintenance, increasing operational costs.

However, long-term sustainability benefits, reduced emissions, and growing energy security needs outweigh these barriers, making biogas upgrading a strategic investment for the future.

Procure This Report (340 Pages PDF with Insights, Charts, Tables, and Figures):

<https://www.alliedmarketresearch.com/checkout-final/e2ec75e6cfb9d9eca90afeadee0c02a6>

□ Market Segmentation

The biogas upgrading technology market scope is segmented as follows:

By Technology: Absorption, Vacuum Pressure Swing Adsorption, Membrane Separation, and Others.

By End-Use: Thermal Application, Power Generation, Biomethane Bottling.

By Region: North America, Europe, Asia-Pacific, and LAMEA.

According to forecasts, the others segment (emerging advanced technologies) is expected to grow at the highest CAGR of 15.5%, while the biomethane bottling segment is projected to grow at 14.7% during the forecast period.

□ Regional Insights

Europe currently dominates the market, accounting for more than two-fifths of global revenue in 2022. The region's strong regulatory framework and emphasis on renewable energy directives have accelerated adoption.

Asia-Pacific is expected to witness the fastest growth over the next decade. Countries like China, India, and Southeast Asian nations are investing heavily in [renewable energy projects](#) to meet rising energy demands and reduce dependency on fossil fuels.

□ Key Players in the Market

The biogas upgrading technology market is highly competitive, with leading players focusing on technological innovation, cost reduction, and strategic partnerships. Major players include:

Atmos Power Pvt. Ltd.

Bright Renewables B.V.

Air Liquide

DMT Environmental Technology

Evonik Industries AG

Pentair Plc

Malmberg Bioerdgastech GmbH

Greenlane Renewables Inc.

Wärtsilä Oyj Abp

Prodeval Corp.

Aemetis Inc.

Xebec Adsorption Inc.

Verbio Vereinigte Bioenergie AG

These companies are focusing on new product launches, expansions, and joint ventures to strengthen their global market presence.

□ Key Findings of the Study

Technology: The "others" category will grow fastest (CAGR 15.5%).

End-Use: Biomethane bottling will grow fastest (CAGR 14.7%).

Region: Asia-Pacific will grow at the highest CAGR.

Market Size: Expected to reach \$5.4 billion by 2032.

Get a Customized Research Report: <https://www.alliedmarketresearch.com/request-for-customization/A47186>

□ Conclusion

The biogas upgrading technology market is set for substantial growth, driven by sustainability goals, government policies, and the global push for renewable energy. While challenges like high costs and technical complexity exist, the long-term benefits of reduced emissions, energy security, and circular economy integration make biogas upgrading a critical solution in the transition to a low-carbon future.

As industries and governments worldwide invest in biomethane production and infrastructure, the biogas upgrading technology market is expected to play a pivotal role in the global renewable energy landscape.

Trending Reports in Energy and Power Industry:

Biogas Market

<https://www.alliedmarketresearch.com/biogas-market-A08979>

Biogas Upgrading Technology Market

<https://www.alliedmarketresearch.com/biogas-upgrading-technology-market-A47186>

Biogas Plant Market

<https://www.alliedmarketresearch.com/biogas-plant-market-A07217>

Organic Biogas Market

<https://www.alliedmarketresearch.com/organic-biogas-market-A31612>

Waste-Derived Biogas Market

<https://www.alliedmarketresearch.com/waste-derived-biogas-market>

Second Generation Biofuels Market

<https://www.alliedmarketresearch.com/second-generation-biofuels-market>

Advanced Biofuel Market

<https://www.alliedmarketresearch.com/advanced-biofuel-market-A06372>

Biofuel market

<https://www.alliedmarketresearch.com/biofuel-market-A08574>

Europe Biodiesel Market

<https://www.alliedmarketresearch.com/europe-biodiesel-market-A323227>

Biodiesel Market

<https://www.alliedmarketresearch.com/biodiesel-market>

Renewable Fuel Market

<https://www.alliedmarketresearch.com/renewable-fuel-market-A15981>

Renewable Energy Market

<https://www.alliedmarketresearch.com/renewable-energy-market>

Biopower Market

<https://www.alliedmarketresearch.com/biopower-market-A09298>

Waste to Energy Market

<https://www.alliedmarketresearch.com/waste-to-energy-market>

About Us

Allied Market Research (AMR) is a full-service market research and business-consulting wing of Allied Analytics LLP based in Portland, Oregon. Allied Market Research provides global enterprises as well as medium and small businesses with unmatched quality of "Market Research Reports" and "Business Intelligence Solutions." AMR has a targeted view to provide business insights and consulting to assist its clients to make strategic business decisions and achieve sustainable growth in their respective market domain.

Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

David Correa

Allied Market Research

+1 800-792-5285

[email us here](#)

Visit us on social media:

[LinkedIn](#)

[Facebook](#)

[YouTube](#)

[X](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/841735177>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.