

# **Bioliquld Heat & Power Generation Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Fuel Type (Bioethanol, Biodiesel and Others), By Technology (Engine, Turbine and Others), By Region, Competition 2018-2028**

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## **Abstracts**

The Global Bioliquld Heat & Power Generation Market was valued at USD 1.92 billion in 2022 and is expected to grow at a CAGR of 7.91% during the forecast period. The government's growing support for green energy is driving significant expansion in the bioliquld heat and electricity generation market. One of the key factors fueling market growth is the increasing production of bioliqulds for heat and power generation. The market is expanding as more countries aim to combat global warming and reduce greenhouse gas emissions by reducing reliance on fossil fuels. Technological advancements that convert feedstocks into liquid biofuels and increased waste recycling to support bioliquld manufacturing are driving market expansion. The strengthened regulatory environment for bioliqulds and renewable energy is creating a substantial opportunity for the market.

### **Key Market Drivers**

#### **Increasing Renewable Energy Targets and Sustainability Goals**

One of the key factors driving the Global Bioliquld Heat & Power Generation Market is the global shift towards renewable energy sources and the establishment of ambitious sustainability goals. Governments, businesses, and organizations worldwide are setting targets to reduce carbon emissions and increase the share of renewable energy in their

energy portfolios.

Many countries have made commitments to ambitious renewable energy targets as part of their efforts to combat climate change. These targets often include specific objectives for increasing the use of renewable energy in the heat and power sectors. Bioliquids, derived from organic materials like biomass and waste, play a critical role in achieving these targets. They are considered a renewable energy source because the carbon dioxide released during their combustion is part of the natural carbon cycle, offsetting emissions and reducing the carbon footprint of energy generation.

Governments are implementing supportive policies, such as feed-in tariffs, subsidies, and incentives, to promote the utilization of bioliquids in heat and power generation. These policies create a favorable environment for the development of bioliquid-based power plants and heating systems, thereby driving market growth.

The second driving force behind the Global Bioliquid Heat & Power Generation Market is the continuous advancement of technologies related to bioliquid production and conversion. Innovations in the production and processing of bioliquids have improved their efficiency, cost-effectiveness, and accessibility.

### Technological Advancements

The advancement of cutting-edge conversion technologies, including pyrolysis, gasification, and hydrothermal liquefaction, has significantly bolstered the efficacy of biomass and organic waste conversion into bioliquids. These technologies enable higher energy yields and decreased emissions.

Extensive research and development endeavors have primarily concentrated on optimizing the blending of bioliquids with fossil fuels and ensuring their compatibility with existing power generation and heating systems. This has greatly expanded the scope of bioliquid applications and augmented their acceptance within the energy industry.

The implementation of sustainability certification schemes, specifically designed for biofuels and bioliquids, guarantees adherence to stringent environmental and social criteria. The certification process enhances the credibility of bioliquid-based energy generation and fosters market growth.

### Growing Awareness of Environmental Impact

The third driver of the Global Bioliquid Heat & Power Generation Market is the growing awareness of the environmental impact associated with conventional fossil fuels. As individuals, businesses, and governments become increasingly conscious of the imperative to reduce greenhouse gas emissions and combat air pollution, there is a discernible shift towards cleaner and more sustainable energy sources.

Bioliqids are considered a low-carbon or carbon-neutral energy source due to the carbon dioxide released during their combustion being offset by the carbon absorbed during the growth of the biomass feedstock. This environmental benefit is in accordance with the objectives of reducing greenhouse gas emissions. In comparison to fossil fuels, the combustion of bioliqids typically generates fewer pollutants, such as sulfur dioxide and particulate matter. As concerns regarding air quality and public health continue to escalate, bioliqids are increasingly regarded as a cleaner alternative. The utilization of bioliqids derived from locally sourced biomass reduces dependence on imported fossil fuels, thereby enhancing energy security and supporting local economies.

In conclusion, the Global Bioliquid Heat & Power Generation Market is driven by the mounting emphasis on renewable energy targets, advancements in bioliquid production and conversion technologies, and the growing recognition of the environmental impact of traditional fuels. These drivers are fostering the adoption of bioliqids in heat and power generation, contributing to the sustained growth of the market.

## Key Market Challenges

### Cost Competitiveness and Economic Viability

One of the key obstacles impeding the widespread adoption of bioliqids in heat and power generation is the considerable initial investment costs associated with the development and deployment of bioliquid-based facilities and infrastructure.

Biomass feedstock production, bioliquid processing plants, and retrofitting or constructing new power plants capable of utilizing bioliqids often entail substantial capital investments. These costs can dissuade both public and private sector investors from embracing bioliquid projects. The economic viability of bioliquid-based heat and power generation is intrinsically linked to the price and availability of biomass feedstock.

Feedstock prices are subject to fluctuations influenced by factors such as weather conditions, market demand, and competition from other industries, such as biofuels and food sectors. These price fluctuations can introduce uncertainty for bioliquid projects,

making long-term profitability prediction and securing financing challenging.

Bioliqid-based heat and power generation facilities typically operate on a smaller scale compared to conventional fossil fuel power plants and even some other renewable energy sources like wind and solar farms. This limited scale can impact economies of scale and competitiveness. Furthermore, the increasing presence of other renewables can create competition for government incentives, subsidies, and investor attention.

### Sustainability and Environmental Concerns

The sustainable production of biomass feedstock for bioliquids raises concerns regarding land use competition and potential conflicts with food production. If not managed diligently, the expansion of biomass cultivation for bioliquids could result in deforestation, loss of biodiversity, and conflicts over land and water resources.

While bioliquids are acknowledged as a low-carbon energy source, the net impact on greenhouse gas emissions is contingent upon several factors, including feedstock production practices, land use changes, and supply chain emissions. Ensuring a positive carbon balance throughout the entire lifecycle of bioliqid production and utilization presents a complex challenge that necessitates comprehensive sustainability assessments and the development of efficient and low-emission supply chains.

### Regulatory and Policy Frameworks

The regulatory landscape for bioliqid heat and power generation varies considerably across regions and countries. Inconsistent regulations, standards, and certification processes can create barriers to market entry, escalate compliance costs, and impede the cross-border trade of bioliquids. The market's growth heavily relies on government policies and support mechanisms, including subsidies, tax incentives, feed-in tariffs, and renewable energy targets. However, the long-term stability and predictability of these policies can be uncertain, which poses risks for investors and project developers.

The acceptance of bioliqid-based heat and power generation by the public and local communities can be influenced by factors such as concerns about land use change, potential environmental impacts, and unfamiliarity with bioliqid technologies. Addressing these concerns through transparent communication and community engagement is an ongoing challenge that requires trust-building.

In conclusion, the Global Bioliqid Heat & Power Generation Market holds significant

promise for sustainable energy production. However, it faces substantial challenges related to cost competitiveness, sustainability, and regulatory frameworks. Overcoming these obstacles will necessitate collaboration among governments, industries, and stakeholders to develop innovative solutions, enhance economic viability, and ensure the environmental sustainability of bioliquid-based energy generation.

## Key Market Trends

### Integration with Decentralized Energy Systems

A notable trend in the Global Bioliquid Heat & Power Generation Market is the integration of bioliquid-based systems into decentralized energy generation models. Decentralized energy systems involve smaller-scale power generation and heat production that are in close proximity to end-users.

Combined Heat and Power (CHP) systems, also known as cogeneration, efficiently produce both electricity and usable heat from a single energy source.

Bioliquids are particularly suitable for CHP applications, especially in industries and communities aiming to optimize energy efficiency and reduce greenhouse gas emissions. Microgrids are self-contained energy systems that can operate independently or in conjunction with the main grid.

Bioliquid-based microgrids offer resilience during grid outages and can provide clean, locally sourced energy to remote or off-grid areas. Decentralized bioliquid projects in rural areas and communities enable energy self-sufficiency, job creation, and the utilization of locally available biomass resources. This trend aligns with the growing interest in energy security, grid resilience, and the integration of renewable energy sources into the energy mix.

### Advanced Conversion Technologies

One of the prominent trends in the Global Bioliquid Heat & Power Generation Market is the adoption of advanced conversion technologies for bioliquid production. Traditional methods of biomass conversion, such as combustion and fermentation, are being supplemented and, in some cases, replaced by more sophisticated techniques. Pyrolysis involves a decomposition process that converts biomass into bio-oil, biochar, and syngas. Pyrolysis offers higher energy yields, reduced emissions, and the potential to utilize a wider range of feedstocks. The adoption of these advanced conversion

technologies is driven by the need for enhanced efficiency, lower emissions, and increased flexibility in feedstock utilization. These technologies significantly contribute to the sustainability of bioliquid production. Gasification converts biomass into a synthesis gas (syngas) composed of hydrogen and carbon monoxide. Syngas can be utilized for the production of electricity, heat, or biofuels. Hydrothermal Liquefaction employs high temperature and pressure to convert wet biomass into biocrude oil, which can be further refined into various bioliquids.

## Segmental Insights

### Fuel Type Insights

The Bioethanol segment holds a significant market share in the Global Bioliquid Heat & Power Generation Market. The bioethanol segment plays a significant role in the Global Bioliquid Heat & Power Generation Market, offering a sustainable and renewable energy source primarily for heat and power generation. Bioethanol is produced through the fermentation of sugars or starches found in biomass feedstocks, making it a valuable component of the bioliquid market.

Bioethanol production can utilize a wide range of feedstocks. Crops like corn, wheat, and barley are commonly used for bioethanol production, especially in regions like North America and Europe. Sugarcane and sugar beet are rich in sugars, making them ideal feedstocks for bioethanol in tropical and subtropical regions, such as Brazil and parts of Europe. Second-generation bioethanol technologies, such as cellulosic ethanol production, have gained traction. These processes use the cellulose and hemicellulose components of biomass, allowing for the use of non-food feedstocks and reducing competition with food production.

Bioethanol is considered a low-carbon fuel because the carbon dioxide (CO<sub>2</sub>) released during its combustion is part of the natural carbon cycle. The carbon absorbed by feedstock crops during growth offsets the emissions, resulting in a reduced net carbon footprint. This aligns bioethanol with greenhouse gas reduction goals and sustainability targets. Bioethanol is already integrated into existing infrastructure, particularly in the transportation sector as a biofuel additive in gasoline (e.g., E10, E15). This integration can facilitate the use of bioethanol in co-firing with fossil fuels in power generation and district heating systems.

## Technology Insights



Turbine segment is expected to dominate the market during the forecast period. The turbine segment plays a pivotal role in the Global Bioliquid Heat & Power Generation Market by facilitating the conversion of bioliquids into electricity and thermal energy. Turbines are vital components in power plants and systems that employ bioliquids for heat and power generation. They are seamlessly integrated into CHP systems, where they concurrently produce electricity and thermal energy.

Bioliquids are well-suited for CHP applications as they effectively harness the heat generated during electricity production. Gas turbines, renowned for their high efficiency and flexibility, are commonly utilized in bioliquid-based power generation. They can operate on a wide range of liquid and gaseous fuels, making them suitable for bioliquids with diverse properties.

Turbines employed in bioliquid-based systems significantly contribute to energy efficiency by converting a substantial portion of the energy contained in bioliquids into electricity and heat. The CHP approach maximizes energy utilization from bioliquids, resulting in superior overall efficiency compared to separate electricity and heat generation. Turbines can be seamlessly integrated into hybrid renewable energy systems, combining bioliquids with other renewable sources such as wind and solar. These hybrid systems bolster grid stability and provide a consistent and dependable energy supply.

## Regional Insights

The Europe region is expected to dominate the market during the forecast period. The European region plays a significant role in the Global Bioliquid Heat & Power Generation Market, driven by a strong commitment to renewable energy, sustainability, and greenhouse gas emissions reduction.

Europe has been at the forefront of adopting bioliquids for heat and power generation, shaping the market dynamics. It has established a comprehensive policy framework, including the Renewable Energy Directive (RED) and its successor, the Renewable Energy Directive II (RED II), to promote the use of bioliquids. These directives set targets for renewable energy share and provide sustainability criteria for bioliquids.

The European Union (EU) aims to achieve at least a 32% share of renewables in final energy consumption by 2030, driving investment and growth in the bioliquid sector. Europe benefits from a wide range of biomass feedstock sources, supporting sustainable bioliquid production. Advanced technologies like pyrolysis, gasification, and

hydrothermal liquefaction are being invested in for higher energy efficiency and lower emissions.

European countries are increasingly incorporating bioliquids into well-established district heating systems, promoting energy efficiency and reducing reliance on fossil fuels. Europe also places a strong emphasis on sustainability certification for bioliquids, ensuring rigorous criteria are met, including greenhouse gas emissions reductions and responsible sourcing, through certifications like the ISCC EU (International Sustainability and Carbon Certification).

### Key Market Players

Albioma SA

Archer-Daniels-Midland Co

Ameresco Inc

Envitec Biogas AG

Enviva Inc.

Drax Group

Strabag SE

Pinnacle Renewable Energy Inc.

Enerkem

Green Plains Inc.

### Report Scope:

In this report, the Global Bioliqid Heat & Power Generation Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Global Bioliqid Heat & Power Generation Market, By Fuel Type:



Bioethanol

Biodiesel

Others

Global Bioliqid Heat & Power Generation Market, By Technology:

Engine

Turbine

Others

Global Bioliqid Heat & Power Generation Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Bioliqid Heat & Power Generation Market.

## Available Customizations:

Global Bioliqid Heat & Power Generation Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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