

Global Bioenergy Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bioenergy market size is expected to reach \$ 72153 million by 2032, rising at a market growth of 2.2% CAGR during the forecast period (2026-2032).

Bioenergy (Biomass Energy) refers to renewable energy sources based on organic matter. Its raw materials encompass various organic substances, including plants, animals, microorganisms, agricultural and forestry waste, and urban and rural organic waste. Essentially, it is chemical energy converted from solar energy through biological cycles.

As a diversified energy form, bioenergy can be converted into end products such as electricity, heat, biofuels (bioethanol, biodiesel, sustainable aviation fuel, etc.), and bio-based chemicals through technologies such as direct combustion, gasification, anaerobic fermentation, and refining. Its core characteristics are renewability, low carbon emissions, diverse raw materials, and flexible utilization methods. It plays a crucial role in replacing fossil fuels, reducing greenhouse gas emissions, and promoting energy structure transformation, and has significant practical implications for environmental protection and sustainable development.

Based on the utilization methods of bioenergy, this paper categorizes it into three main types: biomass power generation, biomass heating, and others (fuels/chemicals).

Through the clean conversion and efficient utilization of these three pathways, the core goals of fossil fuel substitution, greenhouse gas emission reduction, and energy structure optimization can be achieved. Ultimately, low-carbon energy supply can be precisely delivered to diverse scenarios such as industrial production, residential electricity consumption, and heating.

The global bioenergy industry is at a critical stage of large-scale expansion. As the only renewable carbon source capable of providing energy in multiple forms?electricity, heat, gas, and liquid?its strategic value is increasingly prominent in the energy transition and carbon neutrality process.

Globally, Europe is the core production region for biothermal energy, contributing 75% of global biothermal output. In the Asia-Pacific region, China and Southeast Asia are the growth engines, with China being the world's largest producer of bioelectricity, accounting for over 28% of global production in 2024. North America dominates biofuel supply, while Indonesia and the EU are major biodiesel production areas.

Over 130 countries worldwide have set carbon neutrality targets, and 35 countries have implemented biofuel blending directives. The 'storable and adjustable' characteristics of bioenergy make it an important complement to fluctuating energy sources such as wind and solar power. The maturity of the carbon trading market brings additional revenue to companies and alleviates cost pressures. In terms of application structure, electricity and heat account for over 75%.

Currently, the industry still faces challenges such as fluctuating raw material supply, insufficient conversion efficiency (average 40%-50%), and unbalanced regional development.

This report studies the global Bioenergy demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bioenergy, 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 Bioenergy that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bioenergy total market, 2021-2032, (USD Million)

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

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

Global Bioenergy revenue by player, revenue and market share 2021-2026, (USD Million)

Global Bioenergy total market by Type, CAGR, 2021-2032, (USD Million)

Global Bioenergy total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Bioenergy 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 China Three Gorges Corporation (CTG), Vattenfall AB, Iberdrola, Enel, RWE Group, Xcel Energy Inc, ACCIONA, Guangdong Chant Group Inc, Luenmei Quantum Co.,Ltd, Drax Group Plc, 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 Bioenergy 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 Bioenergy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bioenergy Market, Segmentation by Type:

Biomass Power Generation

Biomass Heating

Others

Global Bioenergy Market, Segmentation by Application:

Industrial

Commerce/Residential

Agriculture/Forestry

Others

Companies Profiled:

China Three Gorges Corporation (CTG)

Vattenfall AB

Iberdrola

Enel

RWE Group

Xcel Energy Inc

ACCIONA

Guangdong Chant Group Inc

Luenmei Quantum Co.,Ltd

Drax Group Plc

Tianjin TEDA Resources Recycling Group Co., Ltd

China Tianying Inc

Henan Bccy Environmental Energy Co., Ltd

Beijing China Sciences Runyu Environmental Technology Co., Ltd

Dynagreen Environmental Protection Group Co., Ltd

Yonker Environmental Protection Co., Ltd

Reang Eco-Energy Corp., Ltd

QiQuan Group

Chongqing Sanfeng Environment Group Corp., Ltd

China Everbright Environment Group Limited

Sussus Environment

Zhejiang Weiming Environment Protection Co., Ltd

Infore Environment Technology Group Co., Ltd

Key Questions Answered

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

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