

# **Biomass Boilers Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Stoker, Bubbling Fluidized Bed, Circulating Fluidized Bed, Other Types), By Application (Heating, Power Generation), By End-Use**

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## **Abstracts**

The Biomass Boilers Market is valued at USD 10.4 billion in 2025 and is projected to grow at a CAGR of 14.4% to reach USD 34.8 billion by 2034. The biomass boilers market is experiencing steady growth, driven by the increasing demand for renewable heating solutions. These boilers utilize organic materials like wood pellets, chips, and agricultural residues to generate heat, offering a sustainable alternative to fossil fuel-based heating systems. The market is characterized by a diverse range of products, catering to residential, commercial, and industrial applications. Government initiatives promoting renewable energy adoption and stringent environmental regulations are key factors influencing market dynamics.

The market is seeing a shift towards advanced biomass boiler technologies, including automated feeding systems and improved combustion efficiency. This focus on innovation aims to reduce emissions and enhance overall performance. The European region currently dominates the market, owing to its strong emphasis on renewable energy and well-established biomass supply chains. However, emerging economies in Asia-Pacific are also witnessing significant growth due to rising energy demands and increasing environmental awareness.

The biomass boilers market is poised for continued expansion, driven by the global transition towards a low-carbon economy. The integration of smart technologies and the development of compact, high-efficiency boilers are expected to further propel market growth. The market's future success hinges on addressing challenges related to

feedstock availability, cost competitiveness, and public perception regarding emissions.

## Key Insights Biomass Boilers Market

Increased adoption of automated biomass boiler systems.

Growing demand for high-efficiency and low-emission biomass boilers.

Integration of smart technologies for remote monitoring and control.

Expansion of the market in emerging economies.

Rising demand for combined heat and power (CHP) systems using biomass.

Stringent environmental regulations and carbon emission reduction targets.

Government incentives and subsidies for renewable energy adoption.

Rising fossil fuel prices and energy security concerns.

Increasing awareness of sustainable heating solutions.

Abundant availability of biomass feedstock in certain regions.

Fluctuations in biomass feedstock prices and availability.

High initial investment costs compared to conventional heating systems.

Concerns regarding air pollution and particulate emissions.

Logistical challenges related to biomass transportation and storage.

Varied regulatory frameworks across different regions.

## Biomass Boilers Market Segmentation

### By Type

Stoker

Bubbling Fluidized Bed

Circulating Fluidized Bed

Other Types

#### By Application

Heating

Power Generation

#### By End-Use

Residential

Commercial

Industrial

#### Key Companies Analysed

Siemens AG

General Electric Company

Alstom SA

Doosan Heavy Industries And Construction Co. Ltd.

IHI Corporation

ANDRITZ AG

Thermax Limited

Harbin Electric Company Limited

Bharat Heavy Electricals Limited

Babcock And Wilcox Enterprises

Inc.

Aalborg Energie Technik A/S

Hurst Boiler And Welding Co. Inc.

Schmid energy solutions AG

Mitsubishi Hitachi Power Systems

Leroux and Lotz Technologies

Wood Energy Ltd

ETA Heiztechnik GmbH

Wellons Inc

Baxi Group Limited

AMEC Foster Wheeler plc

Nexterra Systems Corp.

Advanced Recycling Equipment Inc

VAS Energy Systems International GmbH

LAMBION Energy Solutions GmbH

Mawera GmbH

Kohlbach Group

Jernforsen Energi System AB

Ansaldo Energia S.p.A.

Energy Innovations (UK) Ltd

Lin-Ka Maskinfabrik A/S

## Biomass Boilers Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Biomass Boilers Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

## North America — Biomass Boilers market data and outlook to 2034

United States

Canada

Mexico

## Europe — Biomass Boilers market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

## Asia-Pacific — Biomass Boilers market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Biomass Boilers market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Biomass Boilers market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

## Research Methodology

This study combines primary inputs from industry experts across the Biomass Boilers value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

*Biomass Boilers Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Stoker, Bubbling Fluidize...*

What is the current and forecast market size of the Biomass Boilers industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Biomass Boilers Market Report

Global Biomass Boilers market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Biomass Boilers trade, costs, and supply chains

Biomass Boilers market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Biomass Boilers market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Biomass Boilers market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Biomass

Boilers supply chain analysis

Biomass Boilers trade analysis, Biomass Boilers market price analysis, and Biomass Boilers supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Biomass Boilers market news and developments

### Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

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*\* The updated report will be delivered within 3 working days*

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