

Global Biomass Fired Boiler Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biomass Fired Boiler market size is expected to reach \$ 9839 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032). A biomass-fired boiler is a boiler system that generates hot water or steam by burning biomass fuels such as wood chips, wood pellets, agricultural residues (e.g., husks, straw), or other organic waste. It includes fuel storage and handling equipment (conveyors, feeders), a combustion system (such as grate-fired or fluidized-bed), a heat exchanger to transfer combustion heat into the water/steam circuit, and emissions controls to reduce particulates and other pollutants. Biomass-fired boilers are used in buildings, district heating, and industrial plants?often in combined heat and power (CHP) setups?when locally available biomass can replace fossil fuels and, when sourced sustainably, lower net greenhouse-gas emissions. For residential use, the cost is around \$15,000 USD per unit, while for industrial-scale use, the cost is typically between \$500 and \$1,500 per kilowatt of thermal power.

The biomass-fired boiler value chain starts upstream with sustainable biomass fuel supply and preprocessing (forestry residues, wood chips/pellets, agricultural by-products, and waste biomass), plus the industrial inputs needed to build the boiler system?steel fabrication, refractory and insulation materials, heat-exchanger tubing, burners/grates or fluidized-bed components, fans and pumps, controls/automation, and emissions-control hardware (cyclones, baghouses/filters, scrubbers, NOx control where required). Boiler OEMs and EPC/integrators then assemble complete systems that often include fuel receiving, storage and conveying, ash handling, and thermal integration with existing hot-water or steam networks. Downstream, sales flow to installers and engineering firms serving end users such as district heating networks, industrial plants needing process steam, commercial/institutional buildings (campuses, hospitals), and some residential heating markets; ongoing downstream services include fuel contracting, maintenance, parts, compliance testing, ash disposal or valorization, and

performance monitoring tied to local air-quality permitting.

The outlook for biomass-fired boilers is driven by decarbonization pressure in heat and steam—especially where electrification is costly or technically hard—alongside energy-security goals and the availability of local, low-cost biomass residues. Adoption will remain strongest in regions with established biomass supply chains and supportive policy frameworks, but growth is constrained by tightening air-emissions rules, community acceptance, and the need to prove sustainable feedstock sourcing and stable fuel pricing. Competition increasingly comes from heat pumps, waste-heat recovery, and alternative low-carbon fuels, pushing biomass projects toward niches where high-temperature process heat, dispatchable thermal output, or combined heat-and-power benefits matter. Over the next few years, winners are likely to be solutions that pair high-efficiency combustion with robust particulate control, flexible multi-fuel capability, and turnkey fuel logistics—reducing operational risk and making permitting and financing easier for customers.

This report studies the global Biomass Fired Boiler production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Biomass Fired Boiler total production and demand, 2021-2032, (KW)

Global Biomass Fired Boiler total production value, 2021-2032, (USD Million)

Global Biomass Fired Boiler production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KW), (based on production site)

Global Biomass Fired Boiler consumption by region & country, CAGR, 2021-2032 & (KW)

U.S. VS China: Biomass Fired Boiler domestic production, consumption, key domestic manufacturers and share

Global Biomass Fired Boiler production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KW)

Global Biomass Fired Boiler production by Grade, production, value, CAGR, 2021-2032, (USD Million) & (KW)

Global Biomass Fired Boiler production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KW)

This report profiles key players in the global Biomass Fired Boiler market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies

covered as a part of this study include Valmet, ANDRITZ, Babcock & Wilcox (B&W), Sumitomo SHI FW, Aalborg Energie Technik (AET), Vyncke, Thermax, Hurst Boiler, Comptel, 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 Biomass Fired Boiler market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KW) and average price (US\$/KW) by manufacturer, by Grade, 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 Biomass Fired Boiler Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biomass Fired Boiler Market, Segmentation by Grade:

Kilowatt Grade

Megawatt Grade

Global Biomass Fired Boiler Market, Segmentation by Type:

Bubbling Fluidized-bed

Circulating Fluidized-bed

Stoker Boilers

Global Biomass Fired Boiler Market, Segmentation by Fuel:

Logs

Wood Chips

Pellets

Global Biomass Fired Boiler Market, Segmentation by Application:

Industrial

Commercial

Residential

Companies Profiled:

Valmet

ANDRITZ

Babcock & Wilcox (B&W)

Sumitomo SHI FW

Aalborg Energie Technik (AET)

Vyncke

Thermax

Hurst Boiler

Compte R

?koFEN

Fr?ling

Taishan Group

Hargassner

HERZ Energietechnik

Viessmann

SolarFocus

Zhejiang Tuff Development

Justsen Energitechnik

Wuxi Zosen Boilers

Key Questions Answered:

1. How big is the global Biomass Fired Boiler market?
2. What is the demand of the global Biomass Fired Boiler market?
3. What is the year over year growth of the global Biomass Fired Boiler market?
4. What is the production and production value of the global Biomass Fired Boiler market?
5. Who are the key producers in the global Biomass Fired Boiler market?
6. What are the growth factors driving the market demand?

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