

# Global Megawatt-scale Biomass Boilers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Megawatt-scale Biomass Boilers market size was valued at US\$ 4039 million in 2025 and is forecast to a readjusted size of US\$ 5727 million by 2032 with a CAGR of 5.1% during review period.

A megawatt-scale biomass boiler is a large industrial boiler system—typically in the multi-MW thermal output range (often used in district heating, combined heat and power plants, or factories)—that burns biomass fuels such as wood chips, pellets, agricultural residues, or other organic byproducts to generate high-pressure steam or hot water. Compared with small building boilers, it uses engineered combustion and heat-exchange technology (commonly moving-grate, bubbling fluidized bed, or circulating fluidized bed designs), robust fuel receiving/storage and automated feeding systems, and sophisticated controls and emissions equipment (e.g., cyclones, baghouses, SCR) to handle variable fuel quality while meeting air-quality limits. These systems are deployed where operators need reliable baseload heat and/or power at scale while substituting biomass for fossil fuels, often integrating with steam networks, turbines, or district-heating distribution. For industrial-scale use, the cost is typically between \$500 and \$1,500 per kilowatt of thermal power.

The biomass boilers 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.

This report is a detailed and comprehensive analysis for global Megawatt-scale Biomass Boilers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Grade and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Megawatt-scale Biomass Boilers market size and forecasts, in consumption value (\$ Million), sales quantity (KW), and average selling prices (US\$/KW), 2021-2032

Global Megawatt-scale Biomass Boilers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (KW), and average selling prices (US\$/KW), 2021-2032

Global Megawatt-scale Biomass Boilers market size and forecasts, by Grade and by Application, in consumption value (\$ Million), sales quantity (KW), and average selling prices (US\$/KW), 2021-2032

Global Megawatt-scale Biomass Boilers market shares of main players, shipments in revenue (\$ Million), sales quantity (KW), and ASP (US\$/KW), 2021-2026

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Megawatt-scale Biomass Boilers
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Megawatt-scale Biomass Boilers market based on the following parameters - company overview, sales quantity, revenue, 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, Taishan Group, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Megawatt-scale Biomass Boilers market is split by Grade and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Grade, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Grade

50 MW and Below

Above 50 MW

#### Market segment by Type

Bubbling Fluidized-bed

Circulating Fluidized-bed

Stoker Boilers

#### Market segment by Fuel

Logs

Wood Chips

Pellets

### **Market segment by Application**

District Heating & Community Energy

Industrial Process Steam & Heat

CHP Plants

Institutional & Large Campuses

Others

### **Major players covered**

Valmet

ANDRITZ

Babcock & Wilcox (B&W)

Sumitomo SHI FW

Aalborg Energie Technik (AET)

Vyncke

Thermax

Hurst Boiler

Compte R

Taishan Group

## Zhejiang Tuff Development

### Wuxi Zozen Boilers

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)  
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)  
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

### **The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Megawatt-scale Biomass Boilers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Megawatt-scale Biomass Boilers, with price, sales quantity, revenue, and global market share of Megawatt-scale Biomass Boilers from 2021 to 2026.

Chapter 3, the Megawatt-scale Biomass Boilers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Megawatt-scale Biomass Boilers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Grade and by Application, with sales market share and growth rate by Grade, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Megawatt-scale Biomass Boilers market forecast, by regions, by Grade, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Megawatt-scale Biomass Boilers.

Chapter 14 and 15, to describe Megawatt-scale Biomass Boilers sales channel, distributors, customers, research findings and conclusion.

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