

# Global Industrial MW-scale Biomass Boilers Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Industrial MW-scale Biomass Boilers market size is expected to reach \$ 5727 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Industrial MW-scale biomass boilers are large-capacity boiler systems used at factories and utility-like energy plants to burn biomass fuels—such as wood chips or pellets, bark, agricultural residues, or other organic byproducts—to produce steam or hot water for process heat, district heating, and sometimes electricity generation in combined heat and power (CHP) setups. They typically range from several megawatts thermal output upward and use robust combustion technologies (e.g., moving grate, bubbling or circulating fluidized bed) plus automated fuel handling, advanced controls, and emissions-cleanup equipment to manage variable fuel quality while meeting environmental regulations. These boilers are chosen when sites need reliable high-volume steam/heat and can economically substitute biomass for fossil fuels, often leveraging locally available residues or waste streams. 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 studies the global Industrial MW-scale Biomass Boilers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Industrial MW-scale Biomass Boilers 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 Industrial MW-scale Biomass Boilers that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Industrial MW-scale Biomass Boilers total production and demand, 2021-2032, (KW)

Global Industrial MW-scale Biomass Boilers total production value, 2021-2032, (USD Million)

Global Industrial MW-scale Biomass Boilers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KW), (based on production site)

Global Industrial MW-scale Biomass Boilers consumption by region & country, CAGR, 2021-2032 & (KW)

U.S. VS China: Industrial MW-scale Biomass Boilers domestic production, consumption, key domestic manufacturers and share

Global Industrial MW-scale Biomass Boilers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KW)

Global Industrial MW-scale Biomass Boilers production by Grade, production, value, CAGR, 2021-2032, (USD Million) & (KW)

Global Industrial MW-scale Biomass Boilers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KW)

This report profiles key players in the global Industrial MW-scale Biomass Boilers 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, Taishan Group, 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 Industrial MW-scale Biomass Boilers 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 Industrial MW-scale Biomass Boilers Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### **Global Industrial MW-scale Biomass Boilers Market, Segmentation by Grade:**

50 MW and Below

Above 50 MW

### Global Industrial MW-scale Biomass Boilers Market, Segmentation by Type:

Bubbling Fluidized-bed

Circulating Fluidized-bed

Stoker Boilers

### Global Industrial MW-scale Biomass Boilers Market, Segmentation by Fuel:

Logs

Wood Chips

Pellets

### Global Industrial MW-scale Biomass Boilers Market, Segmentation by Application:

District Heating & Community Energy

Industrial Process Steam & Heat

CHP Plants

Institutional & Large Campuses

Others

### Companies Profiled:

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

### **Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Titanium Anode Composite Materials Introduction
- 1.2 World Titanium Anode Composite Materials Supply & Forecast
  - 1.2.1 World Titanium Anode Composite Materials Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Titanium Anode Composite Materials Production (2021-2032)
  - 1.2.3 World Titanium Anode Composite Materials Pricing Trends (2021-2032)
- 1.3 World Titanium Anode Composite Materials Production by Region (Based on Production Site)
  - 1.3.1 World Titanium Anode Composite Materials Production Value by Region (2021-2032)
  - 1.3.2 World Titanium Anode Composite Materials Production by Region (2021-2032)
  - 1.3.3 World Titanium Anode Composite Materials Average Price by Region (2021-2032)
  - 1.3.4 North America Titanium Anode Composite Materials Production (2021-2032)
  - 1.3.5 Europe Titanium Anode Composite Materials Production (2021-2032)
  - 1.3.6 China Titanium Anode Composite Materials Production (2021-2032)
  - 1.3.7 Japan Titanium Anode Composite Materials Production (2021-2032)
  - 1.3.8 India Titanium Anode Composite Materials Production (2021-2032)
  - 1.3.9 Southeast Asia Titanium Anode Composite Materials Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Titanium Anode Composite Materials Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Titanium Anode Composite Materials Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Titanium Anode Composite Materials Demand (2021-2032)
- 2.2 World Titanium Anode Composite Materials Consumption by Region
  - 2.2.1 World Titanium Anode Composite Materials Consumption by Region (2021-2026)
  - 2.2.2 World Titanium Anode Composite Materials Consumption Forecast by Region (2027-2032)
- 2.3 United States Titanium Anode Composite Materials Consumption (2021-2032)
- 2.4 China Titanium Anode Composite Materials Consumption (2021-2032)
- 2.5 Europe Titanium Anode Composite Materials Consumption (2021-2032)

- 2.6 Japan Titanium Anode Composite Materials Consumption (2021-2032)
- 2.7 South Korea Titanium Anode Composite Materials Consumption (2021-2032)
- 2.8 ASEAN Titanium Anode Composite Materials Consumption (2021-2032)
- 2.9 India Titanium Anode Composite Materials Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Titanium Anode Composite Materials Production Value by Manufacturer (2021-2026)
- 3.2 World Titanium Anode Composite Materials Production by Manufacturer (2021-2026)
- 3.3 World Titanium Anode Composite Materials Average Price by Manufacturer (2021-2026)
- 3.4 Titanium Anode Composite Materials Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Titanium Anode Composite Materials Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Titanium Anode Composite Materials in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Titanium Anode Composite Materials in 2025
- 3.6 Titanium Anode Composite Materials Market: Overall Company Footprint Analysis
  - 3.6.1 Titanium Anode Composite Materials Market: Region Footprint
  - 3.6.2 Titanium Anode Composite Materials Market: Company Product Type Footprint
  - 3.6.3 Titanium Anode Composite Materials Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Titanium Anode Composite Materials Production Value Comparison
  - 4.1.1 United States VS China: Titanium Anode Composite Materials Production Value Comparison (2021 & 2025 & 2032)

- 4.1.2 United States VS China: Titanium Anode Composite Materials Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Titanium Anode Composite Materials Production Comparison
  - 4.2.1 United States VS China: Titanium Anode Composite Materials Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Titanium Anode Composite Materials Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Titanium Anode Composite Materials Consumption Comparison
  - 4.3.1 United States VS China: Titanium Anode Composite Materials Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Titanium Anode Composite Materials Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Titanium Anode Composite Materials Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Titanium Anode Composite Materials Manufacturers, Headquarters and Production Site (States, Country)
  - 4.4.2 United States Based Manufacturers Titanium Anode Composite Materials Production Value (2021-2026)
  - 4.4.3 United States Based Manufacturers Titanium Anode Composite Materials Production (2021-2026)
- 4.5 China Based Titanium Anode Composite Materials Manufacturers and Market Share
  - 4.5.1 China Based Titanium Anode Composite Materials Manufacturers, Headquarters and Production Site (Province, Country)
  - 4.5.2 China Based Manufacturers Titanium Anode Composite Materials Production Value (2021-2026)
  - 4.5.3 China Based Manufacturers Titanium Anode Composite Materials Production (2021-2026)
- 4.6 Rest of World Based Titanium Anode Composite Materials Manufacturers and Market Share, 2021-2026
  - 4.6.1 Rest of World Based Titanium Anode Composite Materials Manufacturers, Headquarters and Production Site (State, Country)
  - 4.6.2 Rest of World Based Manufacturers Titanium Anode Composite Materials Production Value (2021-2026)
  - 4.6.3 Rest of World Based Manufacturers Titanium Anode Composite Materials Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Titanium Anode Composite Materials Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Ruthenium-based Titanium Electrodes

5.2.2 Iridium-based Titanium Electrodes

5.2.3 Platinum-based Titanium Electrodes

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Titanium Anode Composite Materials Production by Type (2021-2032)

5.3.2 World Titanium Anode Composite Materials Production Value by Type (2021-2032)

5.3.3 World Titanium Anode Composite Materials Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY SHAPE**

6.1 World Titanium Anode Composite Materials Market Size Overview by Shape: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Shape

6.2.1 Mesh

6.2.2 Plate

6.2.3 Rod

6.2.4 Tube

6.2.5 Others

6.3 Market Segment by Shape

6.3.1 World Titanium Anode Composite Materials Production by Shape (2021-2032)

6.3.2 World Titanium Anode Composite Materials Production Value by Shape (2021-2032)

6.3.3 World Titanium Anode Composite Materials Average Price by Shape (2021-2032)

## **7 MARKET ANALYSIS BY APPLICATION**

7.1 World Titanium Anode Composite Materials Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 New Energy Batteries

7.2.2 Electrolytic Copper Foil

7.2.3 PCB Manufacturing

- 7.2.4 Hydrogen Production
- 7.2.5 Wastewater Treatment
- 7.2.6 Others

### 7.3 Market Segment by Application

- 7.3.1 World Titanium Anode Composite Materials Production by Application (2021-2032)
- 7.3.2 World Titanium Anode Composite Materials Production Value by Application (2021-2032)
- 7.3.3 World Titanium Anode Composite Materials Average Price by Application (2021-2032)

## **8 COMPANY PROFILES**

### 8.1 De Nora

- 8.1.1 De Nora Details
- 8.1.2 De Nora Major Business
- 8.1.3 De Nora Titanium Anode Composite Materials Product and Services
- 8.1.4 De Nora Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.1.5 De Nora Recent Developments/Updates
- 8.1.6 De Nora Competitive Strengths & Weaknesses

### 8.2 Umicore

- 8.2.1 Umicore Details
- 8.2.2 Umicore Major Business
- 8.2.3 Umicore Titanium Anode Composite Materials Product and Services
- 8.2.4 Umicore Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.2.5 Umicore Recent Developments/Updates
- 8.2.6 Umicore Competitive Strengths & Weaknesses

### 8.3 Permaskand

- 8.3.1 Permaskand Details
- 8.3.2 Permaskand Major Business
- 8.3.3 Permaskand Titanium Anode Composite Materials Product and Services
- 8.3.4 Permaskand Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.3.5 Permaskand Recent Developments/Updates
- 8.3.6 Permaskand Competitive Strengths & Weaknesses

### 8.4 Metso

- 8.4.1 Metso Details

- 8.4.2 Metso Major Business
- 8.4.3 Metso Titanium Anode Composite Materials Product and Services
- 8.4.4 Metso Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.4.5 Metso Recent Developments/Updates
- 8.4.6 Metso Competitive Strengths & Weaknesses
- 8.5 SPF
  - 8.5.1 SPF Details
  - 8.5.2 SPF Major Business
  - 8.5.3 SPF Titanium Anode Composite Materials Product and Services
  - 8.5.4 SPF Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.5.5 SPF Recent Developments/Updates
  - 8.5.6 SPF Competitive Strengths & Weaknesses
- 8.6 Xi'an Taijin Xinneng Technology
  - 8.6.1 Xi'an Taijin Xinneng Technology Details
  - 8.6.2 Xi'an Taijin Xinneng Technology Major Business
  - 8.6.3 Xi'an Taijin Xinneng Technology Titanium Anode Composite Materials Product and Services
  - 8.6.4 Xi'an Taijin Xinneng Technology Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.6.5 Xi'an Taijin Xinneng Technology Recent Developments/Updates
  - 8.6.6 Xi'an Taijin Xinneng Technology Competitive Strengths & Weaknesses
- 8.7 Baojichangli Special Metal
  - 8.7.1 Baojichangli Special Metal Details
  - 8.7.2 Baojichangli Special Metal Major Business
  - 8.7.3 Baojichangli Special Metal Titanium Anode Composite Materials Product and Services
  - 8.7.4 Baojichangli Special Metal Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.7.5 Baojichangli Special Metal Recent Developments/Updates
  - 8.7.6 Baojichangli Special Metal Competitive Strengths & Weaknesses
- 8.8 Jiangyin Anuo Electrode
  - 8.8.1 Jiangyin Anuo Electrode Details
  - 8.8.2 Jiangyin Anuo Electrode Major Business
  - 8.8.3 Jiangyin Anuo Electrode Titanium Anode Composite Materials Product and Services
  - 8.8.4 Jiangyin Anuo Electrode Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.8.5 Jiangyin Anuo Electrode Recent Developments/Updates
- 8.8.6 Jiangyin Anuo Electrode Competitive Strengths & Weaknesses
- 8.9 Jiangyin Miracle Electrolysis Equipment
  - 8.9.1 Jiangyin Miracle Electrolysis Equipment Details
  - 8.9.2 Jiangyin Miracle Electrolysis Equipment Major Business
  - 8.9.3 Jiangyin Miracle Electrolysis Equipment Titanium Anode Composite Materials Product and Services
  - 8.9.4 Jiangyin Miracle Electrolysis Equipment Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.9.5 Jiangyin Miracle Electrolysis Equipment Recent Developments/Updates
  - 8.9.6 Jiangyin Miracle Electrolysis Equipment Competitive Strengths & Weaknesses
- 8.10 Magneto Special Anodes
  - 8.10.1 Magneto Special Anodes Details
  - 8.10.2 Magneto Special Anodes Major Business
  - 8.10.3 Magneto Special Anodes Titanium Anode Composite Materials Product and Services
  - 8.10.4 Magneto Special Anodes Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.10.5 Magneto Special Anodes Recent Developments/Updates
  - 8.10.6 Magneto Special Anodes Competitive Strengths & Weaknesses
- 8.11 Baoji Qixin Titanium
  - 8.11.1 Baoji Qixin Titanium Details
  - 8.11.2 Baoji Qixin Titanium Major Business
  - 8.11.3 Baoji Qixin Titanium Titanium Anode Composite Materials Product and Services
  - 8.11.4 Baoji Qixin Titanium Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.11.5 Baoji Qixin Titanium Recent Developments/Updates
  - 8.11.6 Baoji Qixin Titanium Competitive Strengths & Weaknesses
- 8.12 Zhongrui Guoneng Technology
  - 8.12.1 Zhongrui Guoneng Technology Details
  - 8.12.2 Zhongrui Guoneng Technology Major Business
  - 8.12.3 Zhongrui Guoneng Technology Titanium Anode Composite Materials Product and Services
  - 8.12.4 Zhongrui Guoneng Technology Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.12.5 Zhongrui Guoneng Technology Recent Developments/Updates
  - 8.12.6 Zhongrui Guoneng Technology Competitive Strengths & Weaknesses
- 8.13 Jiangsu Yi'anteng Special Electrode
  - 8.13.1 Jiangsu Yi'anteng Special Electrode Details

- 8.13.2 Jiangsu Yi'anteng Special Electrode Major Business
- 8.13.3 Jiangsu Yi'anteng Special Electrode Titanium Anode Composite Materials Product and Services
- 8.13.4 Jiangsu Yi'anteng Special Electrode Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.13.5 Jiangsu Yi'anteng Special Electrode Recent Developments/Updates
- 8.13.6 Jiangsu Yi'anteng Special Electrode Competitive Strengths & Weaknesses
- 8.14 UTron Technology
  - 8.14.1 UTron Technology Details
  - 8.14.2 UTron Technology Major Business
  - 8.14.3 UTron Technology Titanium Anode Composite Materials Product and Services
  - 8.14.4 UTron Technology Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.14.5 UTron Technology Recent Developments/Updates
  - 8.14.6 UTron Technology Competitive Strengths & Weaknesses
- 8.15 Baoji Ruicheng Titanium
  - 8.15.1 Baoji Ruicheng Titanium Details
  - 8.15.2 Baoji Ruicheng Titanium Major Business
  - 8.15.3 Baoji Ruicheng Titanium Titanium Anode Composite Materials Product and Services
  - 8.15.4 Baoji Ruicheng Titanium Titanium Anode Composite Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.15.5 Baoji Ruicheng Titanium Recent Developments/Updates
  - 8.15.6 Baoji Ruicheng Titanium Competitive Strengths & Weaknesses

## **9 INDUSTRY CHAIN ANALYSIS**

- 9.1 Titanium Anode Composite Materials Industry Chain
- 9.2 Titanium Anode Composite Materials Upstream Analysis
  - 9.2.1 Titanium Anode Composite Materials Core Raw Materials
  - 9.2.2 Main Manufacturers of Titanium Anode Composite Materials Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Titanium Anode Composite Materials Production Mode
- 9.6 Titanium Anode Composite Materials Procurement Model
- 9.7 Titanium Anode Composite Materials Industry Sales Model and Sales Channels
  - 9.7.1 Titanium Anode Composite Materials Sales Model
  - 9.7.2 Titanium Anode Composite Materials Typical Distributors

## **10 RESEARCH FINDINGS AND CONCLUSION**

## **11 APPENDIX**

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Industrial MW-scale Biomass Boilers Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Industrial MW-scale Biomass Boilers Production Value by Region (2021-2026) & (USD Million)

Table 3. World Industrial MW-scale Biomass Boilers Production Value by Region (2027-2032) & (USD Million)

Table 4. World Industrial MW-scale Biomass Boilers Production Value Market Share by Region (2021-2026)

Table 5. World Industrial MW-scale Biomass Boilers Production Value Market Share by Region (2027-2032)

Table 6. World Industrial MW-scale Biomass Boilers Production by Region (2021-2026) & (KW)

Table 7. World Industrial MW-scale Biomass Boilers Production by Region (2027-2032) & (KW)

Table 8. World Industrial MW-scale Biomass Boilers Production Market Share by Region (2021-2026)

Table 9. World Industrial MW-scale Biomass Boilers Production Market Share by Region (2027-2032)

Table 10. World Industrial MW-scale Biomass Boilers Average Price by Region (2021-2026) & (US\$/KW)

Table 11. World Industrial MW-scale Biomass Boilers Average Price by Region (2027-2032) & (US\$/KW)

Table 12. Industrial MW-scale Biomass Boilers Major Market Trends

Table 13. World Industrial MW-scale Biomass Boilers Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (KW)

Table 14. World Industrial MW-scale Biomass Boilers Consumption by Region (2021-2026) & (KW)

Table 15. World Industrial MW-scale Biomass Boilers Consumption Forecast by Region (2027-2032) & (KW)

Table 16. World Industrial MW-scale Biomass Boilers Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Industrial MW-scale Biomass Boilers Producers in 2025

Table 18. World Industrial MW-scale Biomass Boilers Production by Manufacturer (2021-2026) & (KW)

Table 19. Production Market Share of Key Industrial MW-scale Biomass Boilers Producers in 2025

Table 20. World Industrial MW-scale Biomass Boilers Average Price by Manufacturer (2021-2026) & (US\$/KW)

Table 21. Global Industrial MW-scale Biomass Boilers Company Evaluation Quadrant

Table 22. World Industrial MW-scale Biomass Boilers Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Industrial MW-scale Biomass Boilers Production Site of Key Manufacturer

Table 24. Industrial MW-scale Biomass Boilers Market: Company Product Type Footprint

Table 25. Industrial MW-scale Biomass Boilers Market: Company Product Application Footprint

Table 26. Industrial MW-scale Biomass Boilers Competitive Factors

Table 27. Industrial MW-scale Biomass Boilers New Entrant and Capacity Expansion Plans

Table 28. Industrial MW-scale Biomass Boilers Mergers & Acquisitions Activity

Table 29. United States VS China Industrial MW-scale Biomass Boilers Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Industrial MW-scale Biomass Boilers Production Comparison, (2021 & 2025 & 2032) & (KW)

Table 31. United States VS China Industrial MW-scale Biomass Boilers Consumption Comparison, (2021 & 2025 & 2032) & (KW)

Table 32. United States Based Industrial MW-scale Biomass Boilers Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Industrial MW-scale Biomass Boilers Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Industrial MW-scale Biomass Boilers Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Industrial MW-scale Biomass Boilers Production (2021-2026) & (KW)

Table 36. United States Based Manufacturers Industrial MW-scale Biomass Boilers Production Market Share (2021-2026)

Table 37. China Based Industrial MW-scale Biomass Boilers Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Industrial MW-scale Biomass Boilers Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Industrial MW-scale Biomass Boilers Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Industrial MW-scale Biomass Boilers Production, (2021-2026) & (KW)

Table 41. China Based Manufacturers Industrial MW-scale Biomass Boilers Production Market Share (2021-2026)

Table 42. Rest of World Based Industrial MW-scale Biomass Boilers Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Industrial MW-scale Biomass Boilers Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Industrial MW-scale Biomass Boilers Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Industrial MW-scale Biomass Boilers Production, (2021-2026) & (KW)

Table 46. Rest of World Based Manufacturers Industrial MW-scale Biomass Boilers Production Market Share (2021-2026)

Table 47. World Industrial MW-scale Biomass Boilers Production Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 48. World Industrial MW-scale Biomass Boilers Production by Grade (2021-2026) & (KW)

Table 49. World Industrial MW-scale Biomass Boilers Production by Grade (2027-2032) & (KW)

Table 50. World Industrial MW-scale Biomass Boilers Production Value by Grade (2021-2026) & (USD Million)

Table 51. World Industrial MW-scale Biomass Boilers Production Value by Grade (2027-2032) & (USD Million)

Table 52. World Industrial MW-scale Biomass Boilers Average Price by Grade (2021-2026) & (US\$/KW)

Table 53. World Industrial MW-scale Biomass Boilers Average Price by Grade (2027-2032) & (US\$/KW)

Table 54. World Industrial MW-scale Biomass Boilers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Industrial MW-scale Biomass Boilers Production by Type (2021-2026) & (KW)

Table 56. World Industrial MW-scale Biomass Boilers Production by Type (2027-2032) & (KW)

Table 57. World Industrial MW-scale Biomass Boilers Production Value by Type (2021-2026) & (USD Million)

Table 58. World Industrial MW-scale Biomass Boilers Production Value by Type (2027-2032) & (USD Million)

Table 59. World Industrial MW-scale Biomass Boilers Average Price by Type

(2021-2026) & (US\$/KW)

Table 60. World Industrial MW-scale Biomass Boilers Average Price by Type

(2027-2032) & (US\$/KW)

Table 61. World Industrial MW-scale Biomass Boilers Production Value by Fuel, (USD Million), 2021 & 2025 & 2032

Table 62. World Industrial MW-scale Biomass Boilers Production by Fuel (2021-2026) & (KW)

Table 63. World Industrial MW-scale Biomass Boilers Production by Fuel (2027-2032) & (KW)

Table 64. World Industrial MW-scale Biomass Boilers Production Value by Fuel (2021-2026) & (USD Million)

Table 65. World Industrial MW-scale Biomass Boilers Production Value by Fuel (2027-2032) & (USD Million)

Table 66. World Industrial MW-scale Biomass Boilers Average Price by Fuel (2021-2026) & (US\$/KW)

Table 67. World Industrial MW-scale Biomass Boilers Average Price by Fuel (2027-2032) & (US\$/KW)

Table 68. World Industrial MW-scale Biomass Boilers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Industrial MW-scale Biomass Boilers Production by Application (2021-2026) & (KW)

Table 70. World Industrial MW-scale Biomass Boilers Production by Application (2027-2032) & (KW)

Table 71. World Industrial MW-scale Biomass Boilers Production Value by Application (2021-2026) & (USD Million)

Table 72. World Industrial MW-scale Biomass Boilers Production Value by Application (2027-2032) & (USD Million)

Table 73. World Industrial MW-scale Biomass Boilers Average Price by Application (2021-2026) & (US\$/KW)

Table 74. World Industrial MW-scale Biomass Boilers Average Price by Application (2027-2032) & (US\$/KW)

Table 75. Valmet Basic Information, Manufacturing Base and Competitors

Table 76. Valmet Major Business

Table 77. Valmet Industrial MW-scale Biomass Boilers Product and Services

Table 78. Valmet Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Valmet Recent Developments/Updates

Table 80. Valmet Competitive Strengths & Weaknesses

- Table 81. ANDRITZ Basic Information, Manufacturing Base and Competitors
- Table 82. ANDRITZ Major Business
- Table 83. ANDRITZ Industrial MW-scale Biomass Boilers Product and Services
- Table 84. ANDRITZ Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. ANDRITZ Recent Developments/Updates
- Table 86. ANDRITZ Competitive Strengths & Weaknesses
- Table 87. Babcock & Wilcox (B&W) Basic Information, Manufacturing Base and Competitors
- Table 88. Babcock & Wilcox (B&W) Major Business
- Table 89. Babcock & Wilcox (B&W) Industrial MW-scale Biomass Boilers Product and Services
- Table 90. Babcock & Wilcox (B&W) Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Babcock & Wilcox (B&W) Recent Developments/Updates
- Table 92. Babcock & Wilcox (B&W) Competitive Strengths & Weaknesses
- Table 93. Sumitomo SHI FW Basic Information, Manufacturing Base and Competitors
- Table 94. Sumitomo SHI FW Major Business
- Table 95. Sumitomo SHI FW Industrial MW-scale Biomass Boilers Product and Services
- Table 96. Sumitomo SHI FW Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Sumitomo SHI FW Recent Developments/Updates
- Table 98. Sumitomo SHI FW Competitive Strengths & Weaknesses
- Table 99. Aalborg Energie Technik (AET) Basic Information, Manufacturing Base and Competitors
- Table 100. Aalborg Energie Technik (AET) Major Business
- Table 101. Aalborg Energie Technik (AET) Industrial MW-scale Biomass Boilers Product and Services
- Table 102. Aalborg Energie Technik (AET) Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Aalborg Energie Technik (AET) Recent Developments/Updates
- Table 104. Aalborg Energie Technik (AET) Competitive Strengths & Weaknesses
- Table 105. Vyncke Basic Information, Manufacturing Base and Competitors
- Table 106. Vyncke Major Business

Table 107. Vyncke Industrial MW-scale Biomass Boilers Product and Services

Table 108. Vyncke Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Vyncke Recent Developments/Updates

Table 110. Vyncke Competitive Strengths & Weaknesses

Table 111. Thermax Basic Information, Manufacturing Base and Competitors

Table 112. Thermax Major Business

Table 113. Thermax Industrial MW-scale Biomass Boilers Product and Services

Table 114. Thermax Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Thermax Recent Developments/Updates

Table 116. Thermax Competitive Strengths & Weaknesses

Table 117. Hurst Boiler Basic Information, Manufacturing Base and Competitors

Table 118. Hurst Boiler Major Business

Table 119. Hurst Boiler Industrial MW-scale Biomass Boilers Product and Services

Table 120. Hurst Boiler Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Hurst Boiler Recent Developments/Updates

Table 122. Hurst Boiler Competitive Strengths & Weaknesses

Table 123. Compte R Basic Information, Manufacturing Base and Competitors

Table 124. Compte R Major Business

Table 125. Compte R Industrial MW-scale Biomass Boilers Product and Services

Table 126. Compte R Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Compte R Recent Developments/Updates

Table 128. Compte R Competitive Strengths & Weaknesses

Table 129. Taishan Group Basic Information, Manufacturing Base and Competitors

Table 130. Taishan Group Major Business

Table 131. Taishan Group Industrial MW-scale Biomass Boilers Product and Services

Table 132. Taishan Group Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Taishan Group Recent Developments/Updates

Table 134. Taishan Group Competitive Strengths & Weaknesses

Table 135. Zhejiang Tuff Development Basic Information, Manufacturing Base and

## Competitors

Table 136. Zhejiang Tuff Development Major Business

Table 137. Zhejiang Tuff Development Industrial MW-scale Biomass Boilers Product and Services

Table 138. Zhejiang Tuff Development Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Zhejiang Tuff Development Recent Developments/Updates

Table 140. Zhejiang Tuff Development Competitive Strengths & Weaknesses

Table 141. Wuxi Zozen Boilers Basic Information, Manufacturing Base and Competitors

Table 142. Wuxi Zozen Boilers Major Business

Table 143. Wuxi Zozen Boilers Industrial MW-scale Biomass Boilers Product and Services

Table 144. Wuxi Zozen Boilers Industrial MW-scale Biomass Boilers Production (KW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Wuxi Zozen Boilers Recent Developments/Updates

Table 146. Wuxi Zozen Boilers Competitive Strengths & Weaknesses

Table 147. Global Key Players of Industrial MW-scale Biomass Boilers Upstream (Raw Materials)

Table 148. Global Industrial MW-scale Biomass Boilers Typical Customers

Table 149. Industrial MW-scale Biomass Boilers Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. Industrial MW-scale Biomass Boilers Picture
- Figure 2. World Industrial MW-scale Biomass Boilers Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Industrial MW-scale Biomass Boilers Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Industrial MW-scale Biomass Boilers Production (2021-2032) & (KW)
- Figure 5. World Industrial MW-scale Biomass Boilers Average Price (2021-2032) & (US\$/KW)
- Figure 6. World Industrial MW-scale Biomass Boilers Production Value Market Share by Region (2021-2032)
- Figure 7. World Industrial MW-scale Biomass Boilers Production Market Share by Region (2021-2032)
- Figure 8. North America Industrial MW-scale Biomass Boilers Production (2021-2032) & (KW)
- Figure 9. Europe Industrial MW-scale Biomass Boilers Production (2021-2032) & (KW)
- Figure 10. China Industrial MW-scale Biomass Boilers Production (2021-2032) & (KW)
- Figure 11. Japan Industrial MW-scale Biomass Boilers Production (2021-2032) & (KW)
- Figure 12. Industrial MW-scale Biomass Boilers Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Industrial MW-scale Biomass Boilers Consumption (2021-2032) & (KW)
- Figure 15. World Industrial MW-scale Biomass Boilers Consumption Market Share by Region (2021-2032)
- Figure 16. United States Industrial MW-scale Biomass Boilers Consumption (2021-2032) & (KW)
- Figure 17. China Industrial MW-scale Biomass Boilers Consumption (2021-2032) & (KW)
- Figure 18. Europe Industrial MW-scale Biomass Boilers Consumption (2021-2032) & (KW)
- Figure 19. Japan Industrial MW-scale Biomass Boilers Consumption (2021-2032) & (KW)
- Figure 20. South Korea Industrial MW-scale Biomass Boilers Consumption (2021-2032) & (KW)
- Figure 21. ASEAN Industrial MW-scale Biomass Boilers Consumption (2021-2032) & (KW)

- Figure 22. India Industrial MW-scale Biomass Boilers Consumption (2021-2032) & (KW)
- Figure 23. Producer Shipments of Industrial MW-scale Biomass Boilers by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Industrial MW-scale Biomass Boilers Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Industrial MW-scale Biomass Boilers Markets in 2025
- Figure 26. United States VS China: Industrial MW-scale Biomass Boilers Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: Industrial MW-scale Biomass Boilers Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Industrial MW-scale Biomass Boilers Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States Based Manufacturers Industrial MW-scale Biomass Boilers Production Market Share 2025
- Figure 30. China Based Manufacturers Industrial MW-scale Biomass Boilers Production Market Share 2025
- Figure 31. Rest of World Based Manufacturers Industrial MW-scale Biomass Boilers Production Market Share 2025
- Figure 32. World Industrial MW-scale Biomass Boilers Production Value by Grade, (USD Million), 2021 & 2025 & 2032
- Figure 33. World Industrial MW-scale Biomass Boilers Production Value Market Share by Grade in 2025
- Figure 34. 50 MW and Below
- Figure 35. Above 50 MW
- Figure 36. World Industrial MW-scale Biomass Boilers Production Market Share by Grade (2021-2032)
- Figure 37. World Industrial MW-scale Biomass Boilers Production Value Market Share by Grade (2021-2032)
- Figure 38. World Industrial MW-scale Biomass Boilers Average Price by Grade (2021-2032) & (US\$/KW)
- Figure 39. World Industrial MW-scale Biomass Boilers Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 40. World Industrial MW-scale Biomass Boilers Production Value Market Share by Type in 2025
- Figure 41. Bubbling Fluidized-bed
- Figure 42. Circulating Fluidized-bed
- Figure 43. Stoker Boilers
- Figure 44. World Industrial MW-scale Biomass Boilers Production Market Share by

Type (2021-2032)

Figure 45. World Industrial MW-scale Biomass Boilers Production Value Market Share by Type (2021-2032)

Figure 46. World Industrial MW-scale Biomass Boilers Average Price by Type (2021-2032) & (US\$/KW)

Figure 47. World Industrial MW-scale Biomass Boilers Production Value by Fuel, (USD Million), 2021 & 2025 & 2032

Figure 48. World Industrial MW-scale Biomass Boilers Production Value Market Share by Fuel in 2025

Figure 49. Logs

Figure 50. Wood Chips

Figure 51. Pellets

Figure 52. World Industrial MW-scale Biomass Boilers Production Market Share by Fuel (2021-2032)

Figure 53. World Industrial MW-scale Biomass Boilers Production Value Market Share by Fuel (2021-2032)

Figure 54. World Industrial MW-scale Biomass Boilers Average Price by Fuel (2021-2032) & (US\$/KW)

Figure 55. World Industrial MW-scale Biomass Boilers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Industrial MW-scale Biomass Boilers Production Value Market Share by Application in 2025

Figure 57. District Heating & Community Energy

Figure 58. Industrial Process Steam & Heat

Figure 59. CHP Plants

Figure 60. Institutional & Large Campuses

Figure 61. Others

Figure 62. World Industrial MW-scale Biomass Boilers Production Market Share by Application (2021-2032)

Figure 63. World Industrial MW-scale Biomass Boilers Production Value Market Share by Application (2021-2032)

Figure 64. World Industrial MW-scale Biomass Boilers Average Price by Application (2021-2032) & (US\$/KW)

Figure 65. Industrial MW-scale Biomass Boilers Industry Chain

Figure 66. Industrial MW-scale Biomass Boilers Procurement Model

Figure 67. Industrial MW-scale Biomass Boilers Sales Model

Figure 68. Industrial MW-scale Biomass Boilers Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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