

## **India Industrial Biomass Boiler Market Forecast 2025-2032**

Market Report | 2025-01-13 | 142 pages | Inkwood Research

### **AVAILABLE LICENSES:**

- Single User Price \$1100.00
- Global Site License \$1500.00

### **Report description:**

#### **KEY FINDINGS**

The India industrial biomass boiler market is anticipated to record a CAGR of 12.02% across the forecasting period of 2025-2032. The market was valued at \$806.46 million in 2024 and is expected to reach a revenue of \$2008.27 million by 2032.

#### **MARKET INSIGHTS**

The Indian industrial biomass boiler market is experiencing prominent growth, driven by rising energy demands, government support, and a shift towards sustainable energy sources. Initiatives like the National Policy on Biofuels have boosted the demand for biomass boilers by promoting the use of biofuels in the energy grid. The Indian government also offers financial incentives, including tax breaks and grants, to companies investing in biomass energy technologies, making the market economically viable. Biomass boilers are recognized for their environmental benefits, as they utilize organic materials, leading to much lower emissions compared to traditional fossil fuel boilers. For example, biomass-fired boilers emit less CO<sub>2</sub> and other pollutants, contributing to India's efforts to combat climate change and meet international commitments, such as the Paris Agreement. In India, the industrial sector is the major driver of the biomass boiler industry, particularly in industries like food processing, sugar, and paper. Sugar mills, in particular, rely heavily on bagasse as a fuel source for their boilers, integrating biomass energy into their operations to ensure a sustainable power supply while reducing dependence on coal.

However, the market faces challenges such as high equipment costs, issues with raw material supply, and regulatory barriers. The initial investment required for biomass boiler installation can be substantial, which may deter small businesses from adopting biomass energy solutions without adequate financial support. Technological advancements are helping address some of these challenges. Innovations like intelligent control systems and hybrid boilers, which combine biomass with other renewable energy sources, are enhancing efficiency and reliability. Companies are also integrating biomass systems with solar and wind energy to create hybrid renewable energy solutions.

The future of the Indian industrial biomass boiler market appears strong, driven by continued investments in infrastructure and an increasing awareness of the advantages of renewable energy. As industries aim for greater sustainability and adherence to environmental standards, the industrial biomass boiler market is poised for further expansion, supporting India's transition to greener energy solutions.

#### **SEGMENTATION ANALYSIS**

The India industrial biomass boiler market segmentation includes feedstock, capacity, application, and type. The feedstock segment is further differentiated into woody biomass, agriculture biomass, and urban residue.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

In India, woody biomass serves as a key feedstock for industrial biomass boilers, primarily sourced from agricultural plantations, forestry residues, and the timber processing industry. It is widely used in sectors such as paper manufacturing, textiles, and food processing. The availability of affordable raw materials like wood chips, sawdust, and forest residues facilitates biomass energy production, enabling industries to reduce their reliance on fossil fuels and enhance sustainability. Furthermore, government incentives aimed at promoting renewable energy adoption further encourage the use of woody biomass in industrial applications.

#### COMPETITIVE INSIGHTS

Some of the leading players operating in the India industrial biomass boiler market include Sigma Thermal, Babcock & Wilcox Enterprises Inc, Detroit Stoker Company, Hurst Boiler & Welding Co Inc, etc.

Sigma Thermal specializes in the design, engineering, supply, and servicing of industrial process heating systems, including thermal fluid systems, direct-fired heaters, process bath heaters, electric process heaters, biomass-fired energy systems, and waste heat recovery solutions. The company serves a diverse range of industries, such as power generation, aerospace, gas processing, petrochemical, and mining. While primarily operating in North America, Sigma Thermal also maintains offices in Dubai to support clients across Europe, the Middle East & Africa, and the Asia-Pacific. The company is headquartered in Marietta, Georgia, USA.

#### Table of Contents:

##### TABLE OF CONTENTS

##### 1. RESEARCH SCOPE & METHODOLOGY

###### 1.1. STUDY OBJECTIVES

###### 1.2. METHODOLOGY

###### 1.3. ASSUMPTIONS & LIMITATIONS

##### 2. EXECUTIVE SUMMARY

###### 2.1. MARKET SIZE & ESTIMATES

###### 2.2. COUNTRY SNAPSHOT

###### 2.3. COUNTRY ANALYSIS

###### 2.4. SCOPE OF STUDY

###### 2.5. CRISIS SCENARIO ANALYSIS

###### 2.5.1. IMPACT OF COVID-19 ON THE INDIA INDUSTRIAL BIOMASS BOILER MARKET

###### 2.5.2. IMPACT OF RUSSIA-UKRAINE WAR ON THE INDIA INDUSTRIAL BIOMASS BOILER MARKET

###### 2.6. MAJOR MARKET FINDINGS

###### 2.6.1. FEEDSTOCK DIVERSIFICATION IN INDUSTRIAL BIOMASS BOILER

###### 2.6.2. RESEARCH AND DEVELOPMENT INVESTMENTS - A TROPE IN INDUSTRIAL BIOMASS BOILER MARKET

###### 2.6.3. INTEGRATION WITH RENEWABLE ENERGY SYSTEMS

##### 3. MARKET DYNAMICS

###### 3.1. KEY DRIVERS

###### 3.1.1. SUPPORT FROM GOVERNMENT REGULATIONS

###### 3.1.2. COST EFFICIENCY & ENVIRONMENT FRIENDLINESS

###### 3.1.3. ADVANCEMENTS IN TECHNOLOGY

###### 3.2. KEY RESTRAINTS

###### 3.2.1. HIGH INSTALLATION COSTS

###### 3.2.2. TEDIOUS HANDLING PROCESS COMPARED TO TRADITIONAL BOILERS

###### 3.2.3. HIGHER REQUIREMENT OF EFFICIENT MANAGEMENT SYSTEMS

##### 4. KEY ANALYTICS

###### 4.1. KEY MARKET TRENDS

###### 4.1.1. RISING ENVIRONMENTAL CONCERNS ARE AIDING THE INDUSTRIAL BIOMASS POWER MARKET

###### 4.1.2. GROWTH IN DEMAND FROM BIOMASS DISTRICT HEATING

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

#### 4.1.3. EARNING REVENUE STREAM FROM CARBON TRADING

### 4.2. PORTER'S FIVE FORCES ANALYSIS

#### 4.2.1. BUYERS POWER

#### 4.2.2. SUPPLIERS POWER

#### 4.2.3. SUBSTITUTION

#### 4.2.4. NEW ENTRANTS

#### 4.2.5. INDUSTRY RIVALRY

### 4.3. GROWTH PROSPECT MAPPING

#### 4.3.1. GROWTH PROSPECT MAPPING FOR INDIA

### 4.4. MARKET MATURITY ANALYSIS

### 4.5. MARKET CONCENTRATION ANALYSIS

### 4.6. VALUE CHAIN ANALYSIS

#### 4.6.1. FEEDSTOCK SUPPLIERS

#### 4.6.2. COMPONENT SUPPLIERS

#### 4.6.3. TECHNOLOGY PROVIDERS

#### 4.6.4. MANUFACTURERS

#### 4.6.5. DISTRIBUTORS

#### 4.6.6. END-USERS

#### 4.6.7. SERVICE PROVIDERS

### 4.7. KEY BUYING CRITERIA

#### 4.7.1. FUEL FLEXIBILITY

#### 4.7.2. COST STRUCTURE

#### 4.7.3. THERMAL EFFICIENCY

#### 4.7.4. CAPABILITY AND SCALABILITY

#### 4.7.5. EMISSION STANDARD

#### 4.7.6. EASE OF INSTALLATION

#### 4.7.7. ANCILLARY SYSTEMS AND FEATURES

### 5. MARKET BY FEEDSTOCK

#### 5.1. WOODY BIOMASS

##### 5.1.1. MARKET FORECAST FIGURE

##### 5.1.2. SEGMENT ANALYSIS

#### 5.2. AGRICULTURE BIOMASS

##### 5.2.1. MARKET FORECAST FIGURE

##### 5.2.2. SEGMENT ANALYSIS

#### 5.3. URBAN RESIDUE

##### 5.3.1. MARKET FORECAST FIGURE

##### 5.3.2. SEGMENT ANALYSIS

### 6. MARKET BY CAPACITY

#### 6.1. 2-10 MW

##### 6.1.1. MARKET FORECAST FIGURE

##### 6.1.2. SEGMENT ANALYSIS

#### 6.2. 10-25 MW

##### 6.2.1. MARKET FORECAST FIGURE

##### 6.2.2. SEGMENT ANALYSIS

#### 6.3. 25-50 MW

##### 6.3.1. MARKET FORECAST FIGURE

##### 6.3.2. SEGMENT ANALYSIS

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7. MARKET BY APPLICATION
  - 7.1. COMBINED HEAT AND POWER (CHP) PRODUCTION
    - 7.1.1. MARKET FORECAST FIGURE
    - 7.1.2. SEGMENT ANALYSIS
  - 7.2. PULP & PAPER
    - 7.2.1. MARKET FORECAST FIGURE
    - 7.2.2. SEGMENT ANALYSIS
  - 7.3. POWER GENERATION
    - 7.3.1. MARKET FORECAST FIGURE
    - 7.3.2. SEGMENT ANALYSIS
  - 7.4. SAWMILL
    - 7.4.1. MARKET FORECAST FIGURE
    - 7.4.2. SEGMENT ANALYSIS
  - 7.5. BREWERY
    - 7.5.1. MARKET FORECAST FIGURE
    - 7.5.2. SEGMENT ANALYSIS
  - 7.6. OTHER APPLICATIONS
    - 7.6.1. MARKET FORECAST FIGURE
    - 7.6.2. SEGMENT ANALYSIS
- 8. MARKET BY TYPE
  - 8.1. STOKER BOILERS
    - 8.1.1. MARKET FORECAST FIGURE
    - 8.1.2. SEGMENT ANALYSIS
  - 8.2. FLUIDIZED BED BOILERS
    - 8.2.1. MARKET FORECAST FIGURE
    - 8.2.2. SEGMENT ANALYSIS
- 9. COMPETITIVE LANDSCAPE
  - 9.1. KEY STRATEGIC DEVELOPMENTS
    - 9.1.1. MERGERS & ACQUISITIONS
    - 9.1.2. PRODUCT LAUNCHES & DEVELOPMENTS
    - 9.1.3. PARTNERSHIPS & AGREEMENTS
    - 9.1.4. BUSINESS EXPANSIONS & DIVESTITURES
  - 9.2. COMPANY PROFILES
    - 9.2.1. ATTSU
      - 9.2.1.1. COMPANY OVERVIEW
      - 9.2.1.2. PRODUCT LIST
    - 9.2.2. BABCOCK & WILCOX ENTERPRISES INC
      - 9.2.2.1. COMPANY OVERVIEW
      - 9.2.2.2. PRODUCT LIST
    - 9.2.3. DETROIT STOKER COMPANY
      - 9.2.3.1. COMPANY OVERVIEW
      - 9.2.3.2. PRODUCT LIST
    - 9.2.4. HURST BOILER & WELDING CO INC
      - 9.2.4.1. COMPANY OVERVIEW
      - 9.2.4.2. PRODUCT LIST
    - 9.2.5. SIGMA THERMAL
      - 9.2.5.1. COMPANY OVERVIEW

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## 9.2.5.2. PRODUCT LIST

**India Industrial Biomass Boiler Market Forecast 2025-2032**

Market Report | 2025-01-13 | 142 pages | Inkwood Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

**ORDER FORM:**

Select license	License	Price
	Single User Price	\$1100.00
	Global Site License	\$1500.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-23"/>
		Signature	<input type="text"/>

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com