

# Boiler Control Market to Grow Significantly, Reaching US\$4.4 Billion by 2033 | Persistence Market Research

*Stricter emission norms and rising industrial automation are driving demand for boiler control systems that improve efficiency and reduce fuel consumption.*

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/EINPresswire.com/ -- The global [boiler control market](#) is witnessing significant growth as industries increasingly prioritize energy efficiency, operational safety, and regulatory compliance.

Boiler control systems are designed to automate and optimize boiler operations by monitoring combustion, fuel supply, steam pressure, temperature, and water levels in real time. These intelligent systems improve boiler performance, reduce fuel consumption, minimize emissions, and enhance plant reliability. Industries such as power generation, oil & gas, chemicals, food & beverages, pharmaceuticals, pulp & paper, and manufacturing are increasingly deploying advanced boiler control solutions to improve productivity while complying with stringent environmental regulations. The growing shift toward digital manufacturing and industrial automation is further accelerating the adoption of smart boiler control technologies worldwide.

The global boiler control market is likely to be valued at US\$2.9 billion in 2026 and is projected to reach US\$4.4 billion by 2033, expanding at a CAGR of 6.2% during the forecast period. Market growth is primarily driven by tightening industrial emission regulations, the rising adoption of energy-efficient steam systems, and increasing deployment of automated process control technologies across industrial facilities. Distributed Control Systems (DCS)-based boiler control solutions continue to dominate the market owing to their superior process automation capabilities, operational flexibility, and enhanced safety features. Asia Pacific holds the largest market share due to rapid industrialization, expanding power generation capacity, growing manufacturing activities, and increasing investments in industrial automation across China, India, Japan, and Southeast Asian countries.



Global Boiler Control Market & Regional Market Outlook 2023-2033:

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## Key Highlights from the Report

- The boiler control market is projected to reach US\$4.4 billion by 2033.
- Rising industrial automation is accelerating demand for intelligent boiler control systems.
- Tightening emission regulations continue to support market expansion worldwide.
- Distributed Control Systems remain the leading technology segment.
- Asia Pacific dominates the global market due to rapid industrial growth.
- Smart monitoring and predictive maintenance technologies are creating new growth opportunities.

## Market Segmentation

The boiler control market is segmented based on component, control type, boiler type, end-use industry, and application. By component, the market includes hardware, software, sensors, controllers, actuators, and monitoring systems. Hardware and integrated control systems account for a significant share due to their critical role in boiler automation and process optimization. Based on control type, the market comprises Distributed Control Systems (DCS), Programmable Logic Controllers (PLC), and Supervisory Control and Data Acquisition (SCADA) systems. DCS-based solutions dominate the market because they offer centralized control, improved operational reliability, and seamless integration with industrial automation platforms.

Based on boiler type, the market includes fire-tube boilers, water-tube boilers, and electric boilers. Water-tube boilers account for a considerable share owing to their extensive use in power generation and large industrial facilities. By end-use industry, power generation remains the largest segment, followed by oil & gas, chemicals, food processing, pharmaceuticals, pulp & paper, metals, and manufacturing industries.

## Regional Insights

Asia Pacific dominates the global boiler control market due to expanding industrial infrastructure, increasing investments in manufacturing automation, and growing energy demand across developing economies. China leads the regional market with its large industrial base and continuous modernization of power plants and manufacturing facilities. India is also witnessing robust growth driven by rapid industrial expansion, infrastructure development, and stricter environmental regulations encouraging the adoption of energy-efficient boiler systems.

Japan and South Korea continue investing in advanced industrial automation technologies, further strengthening regional demand.

North America represents a significant market due to the modernization of aging industrial infrastructure, increasing adoption of smart manufacturing technologies, and strict environmental compliance requirements. Europe also maintains a strong market position with growing investments in sustainable industrial operations and energy-efficient production systems, particularly across Germany, the United Kingdom, France, and Italy.

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### Market Drivers

The primary driver of the boiler control market is the growing emphasis on industrial energy efficiency and emission reduction. Governments worldwide are implementing stringent environmental regulations that require industries to optimize combustion efficiency and reduce greenhouse gas emissions. Advanced boiler control systems help manufacturers improve fuel efficiency, minimize operational costs, enhance equipment reliability, and ensure regulatory compliance. The increasing adoption of Industry 4.0 technologies, digital monitoring platforms, and predictive maintenance solutions is further encouraging industries to upgrade conventional boiler systems with intelligent automation capabilities.

### Market Restraints

Despite favorable growth prospects, the market faces several challenges. The high initial investment required for installing advanced boiler control systems and upgrading existing industrial infrastructure may discourage adoption among small and medium-sized enterprises. Integration with legacy boiler equipment often requires extensive engineering modifications, increasing project costs and implementation time. In addition, the shortage of skilled personnel capable of managing sophisticated automation systems and cybersecurity concerns associated with connected industrial control networks may limit market expansion in certain regions.

### Market Opportunities

The increasing deployment of smart factories and connected industrial facilities presents substantial growth opportunities for the boiler control market. Growing investments in Industrial Internet of Things (IIoT), cloud-based monitoring, artificial intelligence, and predictive analytics are enabling manufacturers to improve boiler performance while reducing maintenance costs. Rising demand for renewable energy integration, biomass boilers, hydrogen-ready boiler systems, and sustainable industrial operations is also expected to create new opportunities for technology providers.

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## Company Insights

- Siemens AG
- ABB Ltd.
- Honeywell International Inc.
- Emerson Electric Co.
- Schneider Electric SE
- Yokogawa Electric Corporation
- Rockwell Automation Inc.
- Mitsubishi Electric Corporation
- Bosch Industriekessel GmbH
- Cleaver-Brooks Inc.

Recent developments include the launch of AI-powered boiler monitoring platforms that enable predictive maintenance and real-time operational optimization. Major automation companies are also expanding integrated boiler control solutions with advanced analytics, remote diagnostics, and Industrial Internet of Things connectivity to improve plant efficiency and regulatory compliance.

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[Commercial Glazing System Market](#): The global commercial glazing system market is projected to grow from US\$6.2 billion in 2026 to US\$9.7 billion by 2033, at a CAGR of 6.6%.

[Radar Simulator Market](#): The global radar simulator market is projected to grow from US\$3.5 billion in 2026 to US\$5.3 billion by 2033, at a CAGR of 6.2%.

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