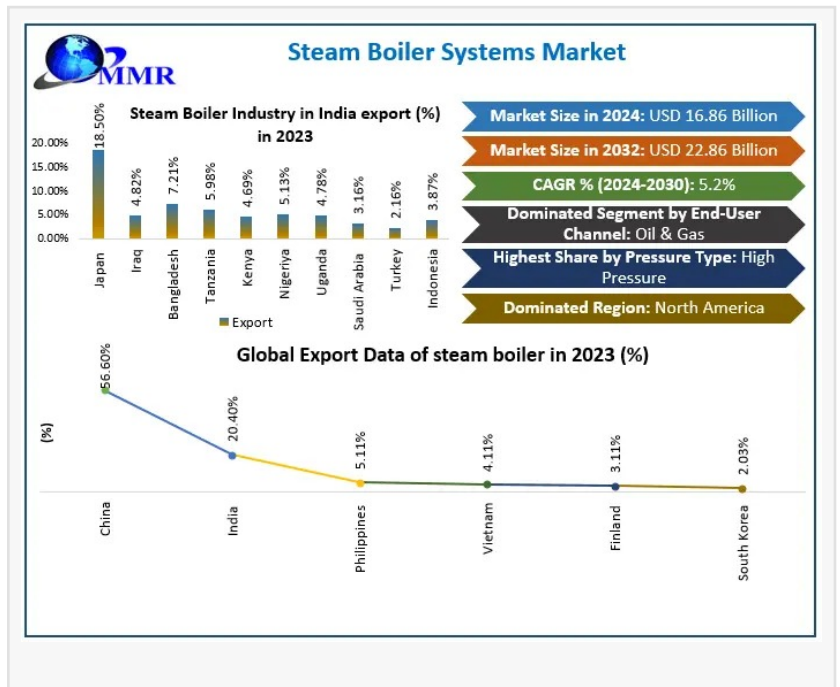


Steam Boiler Systems Market USD 16.86 Billion in 2024 – Growth, Trends & Regional Insights

Steam Boiler Systems Market was valued at USD 16.86B in 2024, with Asia-Pacific leading at 40%+ installations, driven by energy efficiency & smart tech growth.

WILMINGTON, DE, UNITED STATES, September 30, 2025 / EINPresswire.com/ -- The [Steam Boiler Systems Market](#) was valued at USD 16.86 Billion in 2024, with Asia-Pacific holding over 40% of global installations. Rising industrial demand, energy-efficient boilers, and smart technologies are driving market growth through 2032.



Steam Boiler Systems Market, valued at USD 16.86 Billion in 2024, is transforming industrial operations worldwide. With Asia-Pacific accounting for over 40% of global installations, rapid expansion in chemical, textile, and food processing industries is driving demand for energy-efficient and reliable steam solutions. In China, more than 60% of new industrial boilers installed in 2023 were energy-efficient models, reflecting a strong commitment to sustainability. Europe is seeing over 70% of manufacturers adopt low-NOx burners, cutting nitrogen oxide emissions by up to 30%, while North America reports that 45% of industrial boilers now feature IoT-enabled smart monitoring systems for predictive maintenance. These trends highlight the market's shift towards innovation, efficiency, and eco-friendly solutions, supporting industrial

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Steam Boiler Systems are revolutionizing industrial efficiency, offering energy savings, low emissions, and reliable steam for diverse manufacturing sectors.”
Dharti Raut

growth through 2032.

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Global Steam Boiler Systems Market Accelerates with Energy-Efficient Boilers

The global Steam Boiler Systems Market is witnessing robust adoption across Chemical Processing Plants, Food & Beverage facilities, and Textile Industries, where steam consumption accounts for up to 40–50% of industrial energy usage. In China, over 60% of new industrial boilers installed in 2023 were energy-efficient models, reflecting a clear shift toward sustainability. Additionally, over 70% of European manufacturers are integrating low-NOx burners to comply with stringent emission regulations, reducing nitrogen oxide emissions by up to 30% compared to conventional boilers.

Steam Boiler Systems Market Segments Covered	
By Type	Water Tube Boiler Fire Tube Boiler
By Fuel	Coal-Fired Steam Boiler Gas-Fired Steam Boiler Electric Steam Boiler Oil-Fired Steam Boiler Others
By Pressure	Low-Pressure Boiler (15-20 bar) Medium-Pressure Boiler (20-80 bar) High-Pressure Boiler (More than 80 bar)
By End-User Industry	Power Generation Process Industry Oil and Gas Pharmaceutical Metals Others
By Region	North America- United States, Canada, and Mexico Europe – UK, France, Germany, Italy, Spain, Sweden, Russia, and the Rest of Europe Asia Pacific – China, South Korea, Japan, India, Australia, Indonesia, Philippines, Malaysia, Vietnam, Thailand, Rest of APAC Middle East and Africa - South Africa, GCC, Egypt, Nigeria, Rest of the Middle East and Africa South America – Brazil, Argentina, Rest of South America

Technological Advancements and Low-Emission Boilers Transform the Market

The industry is increasingly embracing smart monitoring systems, with approximately 45% of new industrial boilers globally now equipped with IoT-enabled sensors for predictive maintenance. In Japan, hydrogen-ready boilers are being tested in 10 major industrial facilities, aiming to cut carbon emissions by up to 20%. Furthermore, a survey across North American refineries indicates that 55% of facilities plan to replace older steam systems with automated and energy-optimised boilers within the next five years to enhance efficiency and reduce fuel consumption.

Diverse Segmentation of Steam Boiler Systems Market Meets Varied Industrial Demands"

The global Steam Boiler Systems Market is categorised based on type, fuel, pressure, and end-user industry, each catering to specific industrial needs. Fire-tube and water-tube boilers dominate the market, with fire-tube boilers accounting for approximately 45.2% of the market share in 2024, favoured for their robust design and suitability for operations requiring consistent load profiles and lower-pressure steam. Water-tube boilers, known for their ability to handle high pressure and temperatures, are identified as the fastest-growing segment within the market. Regarding fuel types, gas-fired boilers lead the market, comprising about 42.8% of the market share in 2024, due to their cost-effectiveness and cleaner emissions compared to coal and oil. The market is also segmented by pressure levels, with high-pressure steam boilers expected to hold the largest market share, typically exceeding 80 bar, utilized in power generation and large-scale industrial applications. End-user industries such as power generation,

oil refineries, and food processing are the primary consumers of steam boiler systems, driven by their need for reliable and efficient steam generation.

Asia-Pacific Leads Global Steam Boiler Systems Market with Rapid Industrial Adoption"

The Steam Boiler Systems Market is experiencing strong regional growth, with Asia-Pacific accounting for over 40% of global industrial steam installations in 2024, driven by rapid expansion in chemical, textile, and food processing industries. In China, more than 60% of newly installed boilers last year were energy-efficient models, reflecting the region's focus on sustainability. Europe is prioritizing low-emission boilers, with over 70% of industrial facilities implementing advanced technologies like low-NOx burners to reduce nitrogen oxide emissions. North America is seeing 45% of industrial boilers now equipped with IoT-enabled smart monitoring systems, improving predictive maintenance and operational efficiency. Meanwhile, the Middle East & Africa are modernizing infrastructure, with energy-efficient boiler adoption increasing by 35% in countries such as Saudi Arabia and the UAE, supporting growing industrial operations.

Recent Innovations Propel Steam Boiler Systems Market Forward"

May 8, 2025 – India Mandates Local Procurement for Industrial Boilers: The Indian government now requires local sourcing for industrial boilers in government tenders, favouring domestic manufacturers and boosting self-reliance in the steam boiler sector.

October 3, 2024 – UK Brewery Adopts Heat Pump Technology: Hepworth Brewery replaces oil boilers with ultra-high-temperature heat pumps, generating steam at 130°C, cutting fuel costs by 40%, and reducing carbon emissions, showcasing sustainable industrial boiler applications.

Emerging Trends Shaping the Future of Steam Boiler Systems

Shift Towards Modular and Flexible Boiler Designs: The industry is witnessing a growing preference for modular and flexible boiler designs. These systems offer scalability and adaptability, making them ideal for installation in space-constrained facilities. Their ability to meet varying load demands efficiently is driving their adoption across various sectors.

Integration of Digital Technologies for Enhanced Efficiency: There is an increasing incorporation of digital technologies in steam boiler systems. Features like remote monitoring, predictive maintenance, and optimised load management are becoming standard. These advancements enhance operational dependability, reduce unplanned shutdowns, and improve overall system efficiency.

Global Steam Boiler Systems Market: Competitive Landscape and Key Players

The global Steam Boiler Systems Market is characterised by intense competition among

established and emerging players, each striving to enhance their market share through technological advancements and strategic initiatives. Key players in the market include Bosch Thermotechnik, General Electric, Mitsubishi Heavy Industries, Babcock & Wilcox, Viessmann Limited, and Thermax Limited. These companies are focusing on innovation, energy efficiency, and expanding their global footprint to cater to the increasing demand for steam boilers across various industries. The market's competitive dynamics are further influenced by factors such as regulatory standards, technological advancements, and the growing emphasis on sustainable and energy-efficient solutions.

Steam Boiler Market Key Players

North America

Hurst Boiler & Welding Co. Inc. (USA)
Fulton Boiler Works Inc. (USA)
Cleaver-Brooks, Inc. (USA)
Miura America Co. Ltd. (USA)
Victory Energy Operations, LLC (USA)
Rentech Boiler Systems Inc. (USA)
General Electric (USA)

Europe

Byworth Boilers (UK)
Buderus (Germany)
Viessmann Limited (Germany)
Fondital S.p.a (Italy)
Ferroli S.p.A (Italy)
Groupe Atlantic (France)
Bosch Thermotechnology (Germany)
AC Boilers Spa (Italy)
Hoval (Liechtenstein)
Cochran Ltd. (UK)

Asia-Pacific

Larsen & Toubro Ltd. (India)
Doosan (South Korea)
Doosan Heavy Industries & Construction Co. Ltd. (South Korea)
Bharat Heavy Electricals Limited (India)
Thermax Limited (India)
Mitsubishi Hitachi Power Systems, Ltd. (Japan)
IHI Corporation (Japan)

CMI Group (Belgium)
Forbes Marshall Private Limited (India)

Analyst Recommendation:

Industry experts recommend that manufacturers and investors focus on energy-efficient, modular, and smart steam boiler systems to capitalize on growing demand. Prioritizing digital integration, low-emission technologies, and expansion in Asia-Pacific and Europe can enhance market share, operational efficiency, and long-term sustainable growth in the global Steam Boiler Systems Market.

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<https://www.maximizemarketresearch.com/request-sample/46546/>

What is a Steam Boiler System?

Ans. A Steam Boiler System is an industrial device designed to generate steam for heating, power generation, or manufacturing processes. These systems, including fire-tube and water-tube boilers, are widely used in industries like food processing, chemicals, and textiles due to their reliability, efficiency, and ability to meet high-pressure steam requirements.

What are the types of Industrial Steam Boilers?

Ans. The Steam Boiler Systems Market is mainly segmented into fire-tube boilers, water-tube boilers, and electric boilers. Fire-tube boilers are ideal for low-pressure applications, whereas water-tube boilers handle high-pressure steam for large-scale industrial use. Electric and gas-fired boilers are increasingly adopted for energy efficiency and low emissions.

Who are the key players in the Steam Boiler Systems Market?

Ans. Leading Steam Boiler Systems manufacturers include Hurst Boiler & Welding, Fulton Boiler Works, Babcock & Wilcox, Larsen & Toubro, Thermax Limited, and Bosch Thermotechnology. These companies focus on innovation, energy-efficient solutions, and smart boiler systems to meet growing industrial demand across regions such as North America, Europe, and Asia-Pacific.

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