

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System market size is expected to reach \$ 224 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

Electric Arc Furnace Off gas Energy Recovery and Waste Heat Utilization System is a physical industrial equipment system used in electric arc furnace based steelmaking lines to capture recoverable energy from high temperature off gas generated through the furnace roof, fourth hole and primary gas duct, and convert it into useful steam, electric power, plant heat or scrap preheating energy. The research scope focuses on integrated systems rather than a single boiler component, covering evaporative cooled ducts, electric arc furnace waste heat boilers, steam drums, steam generation units, gas to steam heat exchange modules, waste heat power generation units, scrap preheating related energy recovery modules, condensate return systems and automated control systems. The typical process includes high temperature off gas collection, duct cooling, heat exchange, steam generation, temperature matching before or after gas cleaning, thermal energy cascading and power or steam utilization within the steel plant. Key technical parameters include compatible furnace capacity, inlet off gas temperature, steam pressure, steam output, heat recovery efficiency, dust tolerance, thermal shock resistance, system availability, safety interlock design and the ability to supply steam, electricity or heat to plant operations. The system is mainly used in electric arc furnace steel plants, short process steel mills, specialty steel producers and low carbon steelmaking retrofit projects. In 2025, global deliveries of electric arc furnace off gas energy recovery and waste heat utilization systems were about 35 sets, with an industry average price of about USD 10.9 million per set and an average gross margin of about 22% to 30%.

The industrial essence of an electric arc furnace off gas energy recovery and waste heat utilization system is to convert high temperature off gas from short process steelmaking into a measurable and usable energy resource. The upstream chain mainly includes heat resistant steel, pressure vessels, boiler tube bundles, steam drums, heat exchangers, valves, instruments, automation systems and power generation equipment. The midstream is formed by electric furnace process system providers, waste heat boiler manufacturers and metallurgical energy saving engineering companies, which are responsible for system design, equipment manufacturing, installation and commissioning. Downstream demand is concentrated in electric arc furnace steel mills, specialty steel plants, scrap based short process steelmaking bases and low carbon retrofit projects. Because electric arc furnace off gas is highly fluctuating in temperature, dust concentration and flow conditions, the value of the system is not limited to heat recovery efficiency. Reliability, operational safety, dust tolerance and coordination with steelmaking rhythm and gas cleaning equipment are equally important.

The competitive structure is characterized by the coexistence of integrated system providers and specialized subsystem manufacturers. Leading participants tend to emphasize integrated capabilities covering the furnace process package, primary off gas duct, steam generation, waste heat power utilization and control system. Regional manufacturers often enter the market through waste heat boilers, evaporative cooling sections, pressure vessels or industrial energy saving projects. This is not a standardized mass production equipment market, but a project based market with high unit value and uneven order cycles. Investment decisions are closely affected by steel mill capital expenditure, steel prices, scrap supply, electricity tariffs and carbon related costs. Europe, Japan and China have stronger supply side presence, with Europe more focused on integrated system solutions, China more active in engineering execution and boiler manufacturing, and Japan showing strength in furnace process integration and scrap preheating routes.

Policy and demand momentum comes from energy efficiency improvement in the steel industry, expansion of electric arc furnace steelmaking, industrial waste heat utilization and the replacement of purchased energy with recovered steam or power. As steelmakers pay more attention to energy intensity, carbon emissions, steam self supply and the economic value of waste heat power generation, the adoption rate of such systems is expected to rise in both new electric furnace projects and retrofit projects. However, the market still faces constraints such as uncertain payback periods, fluctuations in steel plant investment, demanding maintenance of off gas systems and project economics linked to local energy prices. Over the long term, the system is likely

to evolve from a single waste heat boiler configuration toward cascaded energy utilization, intelligent control, linkage with scrap preheating and integration with plant wide energy management, making it a medium to high value niche within low carbon steelmaking equipment.

This report studies the global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System 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 Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System total production and demand, 2021-2032, (Unit)

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System total production value, 2021-2032, (USD Million)

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Unit), (based on production site)

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System consumption by region & country, CAGR, 2021-2032 & (Unit)

U.S. VS China: Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System domestic production, consumption, key domestic manufacturers and share

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Unit)

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

This report profiles key players in the global Electric Arc Furnace Off-gas Energy

Recovery and Waste Heat Utilization System 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 Primetals Technologies, Tenova S.p.A., Danieli & C. Officine Meccaniche S.p.A., Sarralle, JP Steel Plantech Co., CISDI Group Co., Ltd., Sichuan Crun Co., Ltd., JSDJ Heavy Industry Co., Ltd., 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 Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Unit) and average price (K US\$/Unit) by manufacturer, by Type, 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 Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System Market, Segmentation by Type:

Integrated Off-gas Energy Recovery System

EAF Waste Heat Boiler System

Evaporative Cooling Duct System

Waste Heat Power Generation System

Scrap Preheating Energy Recovery System

Others

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System Market, Segmentation by Energy Utilization Mode:

Steam Generation

Power Generation

Scrap Preheating

Plant Heat Supply

Combined Energy Utilization

Others

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System Market, Segmentation by Delivery Model:

Equipment Supply

System Integration

EPC Turnkey Project

Retrofit Service Package

Others

Global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization
System Market, Segmentation by Application:

Carbon Steel Industry

Specialty Steel Industry

Scrap-based Short Process Steelmaking Industry

Steel Plant Energy Saving Retrofit Industry

Industrial Waste Heat Power and Utility Industry

Others

Companies Profiled:

Primetals Technologies

Tenova S.p.A.

Danieli & C. Officine Meccaniche S.p.A.

Sarralle

JP Steel Plantech Co.

CISDI Group Co., Ltd.

Sichuan Crun Co., Ltd.

JSDJ Heavy Industry Co., Ltd.

Key Questions Answered:

1. How big is the global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System market?
2. What is the demand of the global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System market?
3. What is the year over year growth of the global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System market?
4. What is the production and production value of the global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System market?
5. Who are the key producers in the global Electric Arc Furnace Off-gas Energy Recovery and Waste Heat Utilization System market?
6. What are the growth factors driving the market demand?

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