

Global Cement Waste Heat Utilization Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G0CB6385237FEN.html>

Date: June 2026

Pages: 141

Price: US\$ 3,480.00 (Single User License)

ID: G0CB6385237FEN

Abstracts

According to our (Global Info Research) latest study, the global Cement Waste Heat Utilization market size was valued at US\$ 22225 million in 2025 and is forecast to a readjusted size of US\$ 38517 million by 2032 with a CAGR of 8.2% during review period.

Cement waste heat utilization refers to the capture and conversion of medium-to-low temperature exhaust waste heat (300-400° from preheater exhaust, 200-350° from clinker cooler) generated during new dry process cement clinker production into electricity, heat, or other secondary energy through dedicated waste heat recovery systems. The core product is the waste heat power generation system, consisting of waste heat boilers (kiln inlet SP boiler, kiln outlet AQC boiler), steam turbines, generators, auxiliary equipment, and control systems. Cement waste heat utilization includes captive power generation (grid-connected or self-consumption), cross-industrial cogeneration for heating, agricultural greenhouse heating, and other pathways. The technology consumes no additional fuel and generates no extra carbon emissions, reducing comprehensive energy consumption per ton of clinker by 8-12 kgce and lowering plant self-power consumption by 25-35%, offering both economic and environmental benefits. Utilization models have expanded from single-site power generation toward source-grid-load-storage integration, waste-heat-coupled carbon capture, agricultural heating, and other diversified applications.

Cement waste heat utilization is one of the most mature yet still underestimated segments in industrial energy efficiency. The technology converts 300-400° preheater exhaust and 200-350° clinker cooler hot air into electricity or heat, achieving 38-42 kWh per ton of clinker, reducing comprehensive energy consumption by 8-12 kgce/t,

with no additional fuel or carbon emissions. Pricing: EPC investment for a 5,000 t/d line is RMB 50?80 million, with generation cost around RMB 0.15?0.20/kWh ? about one?third to one?half of industrial grid tariffs. Payback period is typically 3?5 years. Margins vary by business model: EPC gross margin 15?20%; core equipment (boilers, turbines) 25?30%; BOT (Build?Operate?Transfer) model can exceed 40%, offering utility?like stable cash flow. Downstream: captive power generation (self?consumption) accounts for ~70% of installed capacity; grid sales 10?15%; cross?sector heating (district heating, agricultural greenhouses) 5?10%; carbon capture integration and green microgrids below 5% but fastest?growing. Incremental demand comes from: (1) retrofit of older single?pressure systems to dual?pressure/reheat, increasing output 15?20%, creating a replacement equipment market of RMB 3?5 billion/year in China; (2) new cement lines in Southeast Asia, Middle East, Africa driving EPC exports; (3) cross?sector synergy ? Conch?s waste?heat?heated greenhouses produce 3x tomato yield; (4) carbon capture integration ? waste heat provides regeneration energy for amine?based capture, reducing energy penalty by ~30%. Upstream?downstream structure: upstream ? boiler, turbine, ORC unit manufacturers (Sichuan Crun, CITIC Heavy, Ormat, Turboden); midstream ? system integrators and EPC contractors (Sinoma Energy, Conch Kawasaki, Nanjing Kaishan, Kawasaki, FLSmidth); downstream ? cement producers (China National Building Material, Conch) and cross?sector heat users. The landscape is a duopoly of ?Chinese integration leaders + international ORC technology giants?. Sinoma Energy has the largest global market share (~30% in China), with strong Belt & Road presence; Ormat and Turboden lead in low?temperature ORC technology. ESG perspective: Cement accounts for ~13% of China?s CO₂ emissions. Waste heat power saves ~10,000 tCO₂/year per line (0.85 tCO₂/MWh). After CCER restart, carbon credits can generate additional annual revenue of RMB 0.5?1.0 million per line. Replacing coal?fired heating with waste heat reduces PM_{2.5} and SO₂, supporting green factory certification, green loans, and improved ESG ratings. Uncertainties include: (1) cement capacity utilization volatility affecting waste heat generation; (2) carbon market price and CCER methodology updates; (3) ORC cost reduction potentially accelerating substitution of steam Rankine cycle; (4) geopolitical risks for overseas EPC projects. Conclusion: Cement waste heat utilization has evolved from a ?nice?to?have? energy?saving retrofit into a must?have infrastructure for cost reduction, carbon compliance, ESG improvement, and cross?sector synergy. Core drivers are carbon peaking policies, rising industrial electricity tariffs, and circular economy incentives. Structural features are high penetration with large retrofit potential, Chinese leaders dominating domestic while overseas growth awaits, and technology mature but ORC gaining share. Over the next five years, integrators with BOT capabilities, cross?sector heating experience, and carbon asset development skills will capture the greatest value.

This report is a detailed and comprehensive analysis for global Cement Waste Heat Utilization market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Cement Waste Heat Utilization market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Cement Waste Heat Utilization market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Cement Waste Heat Utilization market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Cement Waste Heat Utilization market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Cement Waste Heat Utilization

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Cement Waste Heat Utilization market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key

companies covered as a part of this study include Sinoma Energy Conservation, Anhui Conch Kawasaki Engineering, Nanjing Kaishan Keneng, CITIC Heavy Industries, Sichuan Crun, Jin Tong Ling Technology Group, Ormat Technologies, Kawasaki Plant Systems, Turboden, FLSmidth, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Cement Waste Heat Utilization market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single?Pressure Steam Rankine Cycle

Dual?Pressure / Reheat Steam Rankine Cycle

Organic Rankine Cycle (ORC)

Kalina Cycle

Integrated CHP / Cross?Sector Heating

Market segment by Temperature

300?400? Kiln Tail (Preheater) Exhaust Gas

200?350? Kiln Head (Clinker Cooler) Hot Air

Below 200? Low Temperature Exhaust

Market segment by Application

Captive Power Generation (On-site)

Grid-Connected Power Sales

Cross-Sector District Heating

Agricultural Greenhouse Heating

Carbon Capture Integration

Industrial Green Microgrid

Others

Major players covered

Sinoma Energy Conservation

Anhui Conch Kawasaki Engineering

Nanjing Kaishan Keneng

CITIC Heavy Industries

Sichuan Crun

Jin Tong Ling Technology Group

Ormat Technologies

Kawasaki Plant Systems

Turboden

FLSmidth

Siemens Energy

ABB

GE Gas Power

Thermax

Transparent Energy Systems

China National Building Material Group

Anhui Conch Cement

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Cement Waste Heat Utilization product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cement Waste Heat Utilization, with price, sales quantity, revenue, and global market share of Cement Waste Heat Utilization from 2021 to 2026.

Chapter 3, the Cement Waste Heat Utilization competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cement Waste Heat Utilization breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Cement Waste Heat Utilization market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Cement Waste Heat Utilization.

Chapter 14 and 15, to describe Cement Waste Heat Utilization sales channel, distributors, customers, research findings and conclusion.

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