

Waste Heat Recovery System Market Size, Share & Trends Analysis Report By Application (Pre Heating, Steam & Power Generation), By End-use (Petroleum Refinery, Chemical), By Phase System, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Waste Heat Recovery System Market Growth & Trends

The global waste heat recovery system market size is expected to reach USD 102.41 billion by 2030, registering a CAGR of 9.8% from 2024 to 2030, according to a new report by Grand View Research, Inc. The upcoming evolution of waste heat recovery systems is expected to be amplified by investments in several industries such as refineries, heavy metals, paper & pulp, petrochemicals, and chemicals. Major manufacturing industries are actively adopting waste heat recovery systems to decrease their dependence on conventional energy and produce in-house power to reduce operational costs. For instance, in October 2022, Kawasaki Heavy Industries delivered a waste heat recovery power generation system to the Saitama cement plant of TAIHEIYO CEMENT CORPORATION located in Japan. The installation of this system was completed by the company in 2022. It carried out everything from the general plant designing to the equipment supplying and commissioning, as well as installation. The new system has a rated output of 7,850 kW o

r about 8 MW. By using waste thermal energy to generate electricity for internal usage, the Saitama cement plant can save money on outside power purchases and reduce its annual carbon dioxide (CO₂) emissions by around 23,000 tons.

Rising awareness of clean energy across the industrial sector and availability of energy-saving certificates in developed countries such as the U.S. and regions such as the European Union are expected to boost the demand for waste heat recovery systems over the forecast period. The supportive policies in countries such as China, India, Japan, and Australia are expected to boost the market growth in Asia Pacific over the forecast period.

Moreover, government regulations such as the Energy Conservation (Amendment) Bill, 2022, and incentives related to deploying energy-efficient devices play a pivotal role in promoting energy efficiency across the world. A number of countries have established energy efficiency standards and labeling programs for various products, which encourage manufacturers and consumers to prioritize energy-efficient devices over traditional devices.

The market is a concentrated market where major companies such as Siemens Energy, Mitsubishi Power, Ltd., General Electric account for significant market share in the market in 2022. These companies apart from equipment supply are also focusing on various strategic initiatives including partnerships, new launches, collaborations, and expansion.

Waste Heat Recovery System Market Report Highlights

- Preheating segment is anticipated to grow at the fastest rate over the forecast period. One of the primary reasons for the growth of pre-heating applications is the potential for significant cost savings. By using waste heat instead of additional energy sources such as electricity and natural sources, companies can lower their operational expenses, making them more competitive in the market
- Petroleum refinery segment emerged as the largest segment with a market share of 20.9% in 2023 and is expected to register the fastest growth over the forecast period. The significant increase in CO2 emissions underscores the need for oil refineries to take immediate and aggressive action to reduce their carbon footprint. WHRS can play a crucial role in this by capturing and utilizing waste heat, which reduces the overall energy consumption of the facility and subsequently lowers emissions
- Liquid-liquid phase system emerged as the largest segment with a market share of 40.2% in 2023 and is expected to register robust growth over the forecast period. The rising demand for the growing petroleum and power industry across the globe driving the segment growth over the coming years. In the petroleum refining industry, the WHR

systems are used for various procedures such as refinement, thermal cracking, and catalytic treatment

- Various strategic initiatives were recorded over the past few years to boost the growth of the market. For instance, in April 2023, Damco Energy chose GE to build a new power plant. GE will offer its potent 9HA.02 natural gas turbine, steam turbine, generator, and heat recovery steam generator to build the new power station of 840 megawatts (MW). The plant will be operational in 2026

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Materials & Third-Party Perspectives
 - 1.3.4. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing
- 1.7. List of Abbreviations

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook, 2023
- 2.2. Segmental Outlook
 - 2.2.1. Type Outlook
 - 2.2.2. Application Outlook
- 2.3. Competitive Landscape Snapshot

CHAPTER 3. WASTE HEAT RECOVERY SYSTEM MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Industry Value Chain Analysis
 - 3.2.1. Raw Material Trends
 - 3.2.2. Manufacturing Trends
 - 3.2.3. Profit Margin Analysis
 - 3.2.4. Sales Channel Analysis
- 3.3. Technology Overview/ Timeline
- 3.4. Regulatory Framework
 - 3.4.1. Standard & Compliance
 - 3.4.2. Safety
- 3.5. Market Dynamics

- 3.5.1. Market Driver Analysis
- 3.5.2. Market Restraint Analysis
- 3.5.3. Market Challenges Analysis
- 3.5.4. Market Opportunity Analysis
- 3.6. Business Environment Analysis
 - 3.6.1. Industry Analysis - Porter's Five Forces
 - 3.6.1.1. Supplier Power
 - 3.6.1.2. Buyer Power
 - 3.6.1.3. Substitution Threat
 - 3.6.1.4. Threat from New Entrant
 - 3.6.1.5. Competitive Rivalry
 - 3.6.2. PESTEL Analysis
 - 3.6.2.1. Political Landscape
 - 3.6.2.2. Environmental Landscape
 - 3.6.2.3. Social Landscape
 - 3.6.2.4. Technology Landscape
 - 3.6.2.5. Economic Landscape
 - 3.6.2.6. Legal Landscape
- 3.7. Impact of Environmental, Social, and Governance (ESG) initiatives on the Waste Heat Recovery System Market
 - 3.7.1. Market Differentiation
 - 3.7.2. Regulatory Compliance
 - 3.7.3. Industry Collaboration
 - 3.7.4. Enhanced Brand Value
 - 3.7.5. Addressing Consumer Demands

CHAPTER 4. WASTE HEAT RECOVERY SYSTEM MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

- 4.1. Application Movement Analysis & Market Share, 2023 & 2030
- 4.2. Pre-Heating
 - 4.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 4.3. Power & Steam Generation
 - 4.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 4.4. Others

CHAPTER 5. WASTE HEAT RECOVERY SYSTEM MARKET: END-USE ESTIMATES & TREND ANALYSIS

- 5.1. End-use Movement Analysis & Market Share, 2023 & 2030
- 5.2. Petroleum Refinery
 - 5.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 5.3. Power
 - 5.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 5.4. Cement
 - 5.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 5.5. Chemical
 - 5.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 5.6. Metal Production & Casting
 - 5.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 5.7. Pulp & Paper
 - 5.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 5.8. Others
 - 5.8.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

CHAPTER 6. WASTE HEAT RECOVERY SYSTEM MARKET: PHASE SYSTEM ESTIMATES & TREND ANALYSIS

- 6.1. Phase System Movement Analysis & Market Share, 2023 & 2030
- 6.2. Liquid-liquid phase system
 - 6.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 6.3. Liquid-gas phase system
 - 6.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 6.4. Thermal regeneration
 - 6.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

CHAPTER 7. WASTE HEAT RECOVERY SYSTEM MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

- 7.1. Key Takeaways
- 7.2. Regional Movement Analysis & Market Share, 2023 & 2030
- 7.3. North America
 - 7.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
 - 7.3.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)
 - 7.3.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)
 - 7.3.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)
 - 7.3.5. U.S.
 - 7.3.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.3.5.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)

7.3.5.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.3.5.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

7.3.6. Canada

7.3.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.3.6.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)

7.3.6.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.3.6.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

7.3.7. Mexico

7.3.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.3.7.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)

7.3.7.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.3.7.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

7.4. Europe

7.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.4.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)

7.4.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.4.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

7.4.5. Germany

7.4.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.4.5.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)

7.4.5.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.4.5.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

7.4.6. Italy

7.4.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.4.6.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)

7.4.6.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.4.6.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

7.4.7. Spain

7.4.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.4.7.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)

7.4.7.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.4.7.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

7.5. Asia Pacific

7.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.5.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)

7.5.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.5.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

7.5.5. China

- 7.5.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 7.5.5.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)
- 7.5.5.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)
- 7.5.5.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)
- 7.5.6. India
 - 7.5.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
 - 7.5.6.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)
 - 7.5.6.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)
 - 7.5.6.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)
- 7.5.7. Japan
 - 7.5.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
 - 7.5.7.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)
 - 7.5.7.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)
 - 7.5.7.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)
- 7.6. Central & South America
 - 7.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
 - 7.6.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)
 - 7.6.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)
 - 7.6.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)
 - 7.6.5. Brazil
 - 7.6.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
 - 7.6.5.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)
 - 7.6.5.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)
 - 7.6.5.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)
- 7.7. Middle East & Africa
 - 7.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
 - 7.7.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)
 - 7.7.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)
 - 7.7.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)
 - 7.7.5. Saudi Arabia
 - 7.7.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
 - 7.7.5.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)
 - 7.7.5.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)
 - 7.7.5.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)
 - 7.7.6. UAE
 - 7.7.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
 - 7.7.6.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)
 - 7.7.6.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)
 - 7.7.6.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

7.7.7. South Africa

7.7.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.7.7.2. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)

7.7.7.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.7.7.4. Market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

CHAPTER 8. COMPETITIVE LANDSCAPE

8.1. Key Global Players & Recent Developments & Their Impact On the Industry

8.2. Key Company/Competition Categorization (Key innovators, Market leaders, emerging players)

8.3. List of key Raw Material Distributors and Channel Partners

8.4. List of Potential Customers, by Application

8.5. Company Market Share & Position Analysis, 2023

8.6. Company Heat Map Analysis

8.7. Strategy Mapping

8.7.1. Expansion

8.7.2. Collaboration/ Partnerships/ Agreements

8.7.3. New Material launches

8.7.4. Mergers & Acquisitions

8.7.5. Research & Development

8.7.6. Others

CHAPTER 9. COMPANY LISTING / PROFILES

9.1. Siemens Energy

9.1.1. Company Overview

9.1.2. Financial Performance

9.1.3. Product Benchmarking

9.2. Mitsubishi Power, Ltd.

9.2.1. Company Overview

9.2.2. Financial Performance

9.2.3. Material Benchmarking

9.3. General Electric

9.3.1. Company Overview

9.3.2. Financial Performance

9.3.3. Material Benchmarking

9.4. ABB

9.4.1. Company Overview

- 9.4.2. Financial Performance
- 9.4.3. Material Benchmarking
- 9.5. Turboden S.p.A.
 - 9.5.1. Company Overview
 - 9.5.2. Financial Performance
 - 9.5.3. Material Benchmarking
- 9.6. Bosch
 - 9.6.1. Company Overview
 - 9.6.2. Financial Performance
 - 9.6.3. Material Benchmarking
- 9.7. Exergy International Srl
 - 9.7.1. Company Overview
 - 9.7.2. Financial Performance
 - 9.7.3. Material Benchmarking
- 9.8. Forbes Marshall
 - 9.8.1. Company Overview
 - 9.8.2. Financial Performance
 - 9.8.3. Material Benchmarking
- 9.9. IHI Corporation
 - 9.9.1. Company Overview
 - 9.9.2. Financial Performance
 - 9.9.3. Material Benchmarking
- 9.10. Terrapin
 - 9.10.1. Company Overview
 - 9.10.2. Financial Performance
 - 9.10.3. Material Benchmarking

CHAPTER 10. STRATEGIC RECOMMENDATIONS/ ANALYST PERSPECTIVE

List Of Tables

LIST OF TABLES

Table 1 Waste Heat Recovery System market estimates and forecasts by Application, 2018 - 2030 (USD Million)

Table 2 Waste Heat Recovery System market estimates and forecasts in Pre-Heating, 2018 - 2030 (USD Million)

Table 3 Waste Heat Recovery System market estimates and forecasts in Power & Steam Generation, 2018 - 2030 (USD Million)

Table 4 Waste Heat Recovery System market estimates and forecasts in Others, 2018 - 2030 (USD Million)

Table 5 Waste Heat Recovery System market estimates and forecasts by End-use, 2018 - 2030 (USD Million)

Table 6 Waste Heat Recovery System market estimates and forecasts in Petroleum refinery, 2018 - 2030 (USD Million)

Table 7 Waste Heat Recovery System market estimates and forecasts in Power, 2018 - 2030 (USD Million)

Table 8 Waste Heat Recovery System market estimates and forecasts in Cement, 2018 - 2030 (USD Million)

Table 9 Waste Heat Recovery System market estimates and forecasts in Chemical, 2018 - 2030 (USD Million)

Table 10 Waste Heat Recovery System market estimates and forecasts in Metal production & casting, 2018 - 2030 (USD Million)

Table 11 Waste Heat Recovery System market estimates and forecasts in Pulp & paper, 2018 - 2030 (USD Million)

Table 12 Waste Heat Recovery System market estimates and forecasts in Others, 2018 - 2030 (USD Million)

Table 13 Waste Heat Recovery System market estimates and forecasts by Phase System, 2018 - 2030 (USD Million)

Table 14 Waste Heat Recovery System market estimates and forecasts in liquid-liquid phase system, 2018 - 2030 (USD Million)

Table 15 Waste Heat Recovery System market estimates and forecasts in liquid-gas phase system, 2018 - 2030 (USD Million)

Table 16 Waste Heat Recovery System market estimates and forecasts in thermal regeneration, 2018 - 2030 (USD Million)

Table 17 North America Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 18 North America Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 19 North America Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 20 North America Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 21 U.S. Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 22 U.S. Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 23 U.S. Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 24 U.S. Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 25 Canada Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 26 Canada Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 27 Canada Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 28 Canada Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 29 Mexico Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 30 Mexico Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 31 Mexico Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 32 Mexico Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 33 Europe Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 34 Europe Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 35 Europe Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 36 Europe Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 37 Germany Waste Heat Recovery System market estimates and forecasts, 2018

- 2030 (USD Million)

Table 38 Germany Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 39 Germany Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 40 Germany Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 41 Italy Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 42 Italy Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 43 Italy Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 44 Italy Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 45 Spain Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 46 Spain Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 47 Spain Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 48 Spain Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 49 Asia Pacific Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 50 Asia Pacific Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 51 Asia Pacific Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 52 Asia Pacific Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 53 China Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 54 China Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 55 China Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 56 China Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 57 India Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 58 India Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 59 India Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 60 India Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 61 Japan Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 62 Japan Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 63 Japan Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 64 Japan Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 65 Central & South America Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 66 Central & South America Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 67 Central & South America Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 68 Central & South America Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 69 Brazil Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 70 Brazil Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 71 Brazil Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 72 Brazil Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 73 Middle East & Africa Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 74 Middle East & Africa Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 75 Middle East & Africa Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 76 Middle East & Africa Waste Heat Recovery System market estimates and

forecasts, by phase system, 2018 - 2030 (USD Million)

Table 77 UAE Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 78 UAE Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 79 UAE Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 80 UAE Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 81 Saudi Arabia Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 82 Saudi Arabia Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 83 Saudi Arabia Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 84 Saudi Arabia Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

Table 85 South Africa Waste Heat Recovery System market estimates and forecasts, 2018 - 2030 (USD Million)

Table 86 South Africa Waste Heat Recovery System market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 87 South Africa Waste Heat Recovery System market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 88 South Africa Waste Heat Recovery System market estimates and forecasts, by phase system, 2018 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

Fig. 1 Market segmentation

Fig. 2 Information procurement

Fig. 3 Data Analysis Models

Fig. 4 Market Formulation and Validation

Fig. 5 Market snapshot

Fig. 6 Segmental outlook- Application, End-use, and Phase System

Fig. 7 Competitive outlook

Fig. 8 Value chain analysis

Fig. 9 Market dynamics

Fig. 10 Porter's Analysis

Fig. 11 PESTEL Analysis

Fig. 12 Waste Heat Recovery System market, by application: Key takeaways

Fig. 13 Waste Heat Recovery System market, by application: Market share, 2023 & 2030

Fig. 14 Waste Heat Recovery System market, by end-use: Key takeaways

Fig. 15 Waste Heat Recovery System market, by end-use: Market share, 2023 & 2030

Fig. 16 Waste Heat Recovery System market, by phase system: Key takeaways

Fig. 17 Waste Heat Recovery System market, by phase system: Market share, 2023 & 2030

Fig. 18 Waste Heat Recovery System market, by region: Key takeaways

Fig. 19 Waste Heat Recovery System market, by region: Market share, 2023 & 2030

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