

# Global District Heating Solution Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global District Heating Solution market size is expected to reach \$ 364806 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

Global sales of district heating solutions reached 2576 TWh in 2025, with an average price of US\$76.8/MWh.

A district heating solution is an energy system that uses a central heat source to produce hot water or steam, which is then distributed to several buildings via an underground insulated pipe network for centralized heating, cooling, or domestic hot water supply. It achieves economies of scale, fuel flexibility, and low carbon emissions, providing a comprehensive energy service solution.

The main raw materials are heat source equipment (boiler, heat pump, CHP unit set), prefabricated insulated steel pipes (working steel pipe + polyurethane insulation + HDPE outer sheath), valves and pump stations, heat exchange units, and smart heat meters. Insulated pipes and heat source equipment together account for 55-65% of the total project cost; the remainder includes civil engineering, installation, electrical control, and SCADA systems.

Future district heating will evolve along three main lines: 'low-carbonization, digitalization, and diversification': At the heat source end, zero-carbon substitution will be accelerated? solar energy, geothermal energy, biomass, and waste heat from data centers/power plants will be coupled with electric heat pumps to form a low-carbon heat source combination of 'waste heat + heat pump' base load and renewable energy peak shaving. It is estimated that by 2030, renewable energy and waste heat will account for more than 50%; At the grid end, upgrades will be made to fourth-generation (?70 ?) and fifth-generation (?50 ?, bidirectional heating and cooling) low-temperature water networks. Through large temperature difference units, phase change thermal storage, and cross-seasonal thermal storage for peak shaving and valley filling, the return water

temperature will decrease by 10%. , reducing network heat loss by approximately 6%, while accommodating more low-grade heat sources; Comprehensive intelligent operation? AI + IoT enables real-time optimization of the heating network's 'source-network-load-storage,' dynamically predicting load and scheduling pump speed and supply water temperature, reducing power consumption and carbon emissions by 10-15%; AI-powered energy-saving retrofitting of aging pipelines, microgrid-level 'virtual thermal power plants,' and multi-energy collaborative trading platforms will become standard configurations.

This report studies the global District Heating Solution production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for District Heating Solution 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 District Heating Solution that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global District Heating Solution total production and demand, 2021-2032, (TWh)

Global District Heating Solution total production value, 2021-2032, (USD Million)

Global District Heating Solution production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (TWh), (based on production site)

Global District Heating Solution consumption by region & country, CAGR, 2021-2032 & (TWh)

U.S. VS China: District Heating Solution domestic production, consumption, key domestic manufacturers and share

Global District Heating Solution production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (TWh)

Global District Heating Solution production by Type, production, value, CAGR, 2021-2032, (USD Million) & (TWh)

Global District Heating Solution production by Application, production, value, CAGR, 2021-2032, (USD Million) & (TWh)

This report profiles key players in the global District Heating Solution 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 ENGIE, NRG Energy, Fortum, Empower, ADC Energy Systems, STEAG, Ørsted A/S, Tabreed, Vattenfall, RWE AG, 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 District Heating Solution market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (TWh) and average price (US\$/MWh) 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 District Heating Solution Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global District Heating Solution Market, Segmentation by Type:

Combined Heat and Power

Fossil Fuel/Biomass

Geothermal Heat

Solar Heat

Industrial Heat Pumps

Global District Heating Solution Market, Segmentation by Pipeline Layout:

Branched

Ringed

Multistage Pump Distributed

#### Global District Heating Solution Market, Segmentation by User Scope:

Local Area

City-level

Intercity

#### Global District Heating Solution Market, Segmentation by Application:

Residential

Commercial

Industrial

#### **Companies Profiled:**

ENGIE

NRG Energy

Fortum

Empower

ADC Energy Systems

STEAG

Ørsted A/S

Tabreed

Vattenfall

RWE AG

Goteborg Energi

Logstor

Shinryo

Emicool

Keppel DHCS

Statkraft

Ramboll

### **Key Questions Answered:**

1. How big is the global District Heating Solution market?
2. What is the demand of the global District Heating Solution market?
3. What is the year over year growth of the global District Heating Solution market?
4. What is the production and production value of the global District Heating Solution market?
5. Who are the key producers in the global District Heating Solution market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 District Heating Solution Introduction
- 1.2 World District Heating Solution Supply & Forecast
  - 1.2.1 World District Heating Solution Production Value (2021 & 2025 & 2032)
  - 1.2.2 World District Heating Solution Production (2021-2032)
  - 1.2.3 World District Heating Solution Pricing Trends (2021-2032)
- 1.3 World District Heating Solution Production by Region (Based on Production Site)
  - 1.3.1 World District Heating Solution Production Value by Region (2021-2032)
  - 1.3.2 World District Heating Solution Production by Region (2021-2032)
  - 1.3.3 World District Heating Solution Average Price by Region (2021-2032)
  - 1.3.4 North America District Heating Solution Production (2021-2032)
  - 1.3.5 Europe District Heating Solution Production (2021-2032)
  - 1.3.6 China District Heating Solution Production (2021-2032)
  - 1.3.7 Japan District Heating Solution Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 District Heating Solution Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 District Heating Solution Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World District Heating Solution Demand (2021-2032)
- 2.2 World District Heating Solution Consumption by Region
  - 2.2.1 World District Heating Solution Consumption by Region (2021-2026)
  - 2.2.2 World District Heating Solution Consumption Forecast by Region (2027-2032)
- 2.3 United States District Heating Solution Consumption (2021-2032)
- 2.4 China District Heating Solution Consumption (2021-2032)
- 2.5 Europe District Heating Solution Consumption (2021-2032)
- 2.6 Japan District Heating Solution Consumption (2021-2032)
- 2.7 South Korea District Heating Solution Consumption (2021-2032)
- 2.8 ASEAN District Heating Solution Consumption (2021-2032)
- 2.9 India District Heating Solution Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World District Heating Solution Production Value by Manufacturer (2021-2026)

- 3.2 World District Heating Solution Production by Manufacturer (2021-2026)
- 3.3 World District Heating Solution Average Price by Manufacturer (2021-2026)
- 3.4 District Heating Solution Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global District Heating Solution Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for District Heating Solution in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for District Heating Solution in 2025
- 3.6 District Heating Solution Market: Overall Company Footprint Analysis
  - 3.6.1 District Heating Solution Market: Region Footprint
  - 3.6.2 District Heating Solution Market: Company Product Type Footprint
  - 3.6.3 District Heating Solution Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: District Heating Solution Production Value Comparison
  - 4.1.1 United States VS China: District Heating Solution Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: District Heating Solution Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: District Heating Solution Production Comparison
  - 4.2.1 United States VS China: District Heating Solution Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: District Heating Solution Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: District Heating Solution Consumption Comparison
  - 4.3.1 United States VS China: District Heating Solution Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: District Heating Solution Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based District Heating Solution Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based District Heating Solution Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers District Heating Solution Production Value (2021-2026)

4.4.3 United States Based Manufacturers District Heating Solution Production (2021-2026)

4.5 China Based District Heating Solution Manufacturers and Market Share

4.5.1 China Based District Heating Solution Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers District Heating Solution Production Value (2021-2026)

4.5.3 China Based Manufacturers District Heating Solution Production (2021-2026)

4.6 Rest of World Based District Heating Solution Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based District Heating Solution Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers District Heating Solution Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers District Heating Solution Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World District Heating Solution Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Combined Heat and Power

5.2.2 Fossil Fuel/Biomass

5.2.3 Geothermal Heat

5.2.4 Solar Heat

5.2.5 Industrial Heat Pumps

5.3 Market Segment by Type

5.3.1 World District Heating Solution Production by Type (2021-2032)

5.3.2 World District Heating Solution Production Value by Type (2021-2032)

5.3.3 World District Heating Solution Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY PIPELINE LAYOUT**

6.1 World District Heating Solution Market Size Overview by Pipeline Layout: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Pipeline Layout

- 6.2.1 Branched
- 6.2.2 Ringed
- 6.2.3 Multistage Pump Distributed
- 6.3 Market Segment by Pipeline Layout
  - 6.3.1 World District Heating Solution Production by Pipeline Layout (2021-2032)
  - 6.3.2 World District Heating Solution Production Value by Pipeline Layout (2021-2032)
  - 6.3.3 World District Heating Solution Average Price by Pipeline Layout (2021-2032)

## **7 MARKET ANALYSIS BY USER SCOPE**

- 7.1 World District Heating Solution Market Size Overview by User Scope: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by User Scope
  - 7.2.1 Local Area
  - 7.2.2 City-level
  - 7.2.3 Intercity
- 7.3 Market Segment by User Scope
  - 7.3.1 World District Heating Solution Production by User Scope (2021-2032)
  - 7.3.2 World District Heating Solution Production Value by User Scope (2021-2032)
  - 7.3.3 World District Heating Solution Average Price by User Scope (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

- 8.1 World District Heating Solution Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
  - 8.2.1 Residential
  - 8.2.2 Commercial
  - 8.2.3 Industrial
- 8.3 Market Segment by Application
  - 8.3.1 World District Heating Solution Production by Application (2021-2032)
  - 8.3.2 World District Heating Solution Production Value by Application (2021-2032)
  - 8.3.3 World District Heating Solution Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

- 9.1 ENGIE
  - 9.1.1 ENGIE Details
  - 9.1.2 ENGIE Major Business

- 9.1.3 ENGIE District Heating Solution Product and Services
- 9.1.4 ENGIE District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 ENGIE Recent Developments/Updates
- 9.1.6 ENGIE Competitive Strengths & Weaknesses
- 9.2 NRG Energy
  - 9.2.1 NRG Energy Details
  - 9.2.2 NRG Energy Major Business
  - 9.2.3 NRG Energy District Heating Solution Product and Services
  - 9.2.4 NRG Energy District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 NRG Energy Recent Developments/Updates
  - 9.2.6 NRG Energy Competitive Strengths & Weaknesses
- 9.3 Fortum
  - 9.3.1 Fortum Details
  - 9.3.2 Fortum Major Business
  - 9.3.3 Fortum District Heating Solution Product and Services
  - 9.3.4 Fortum District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Fortum Recent Developments/Updates
  - 9.3.6 Fortum Competitive Strengths & Weaknesses
- 9.4 Empower
  - 9.4.1 Empower Details
  - 9.4.2 Empower Major Business
  - 9.4.3 Empower District Heating Solution Product and Services
  - 9.4.4 Empower District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Empower Recent Developments/Updates
  - 9.4.6 Empower Competitive Strengths & Weaknesses
- 9.5 ADC Energy Systems
  - 9.5.1 ADC Energy Systems Details
  - 9.5.2 ADC Energy Systems Major Business
  - 9.5.3 ADC Energy Systems District Heating Solution Product and Services
  - 9.5.4 ADC Energy Systems District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 ADC Energy Systems Recent Developments/Updates
  - 9.5.6 ADC Energy Systems Competitive Strengths & Weaknesses
- 9.6 STEAG
  - 9.6.1 STEAG Details

- 9.6.2 STEAG Major Business
- 9.6.3 STEAG District Heating Solution Product and Services
- 9.6.4 STEAG District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 STEAG Recent Developments/Updates
- 9.6.6 STEAG Competitive Strengths & Weaknesses
- 9.7 Ørsted A/S
- 9.7.1 Ørsted A/S Details
- 9.7.2 Ørsted A/S Major Business
- 9.7.3 Ørsted A/S District Heating Solution Product and Services
- 9.7.4 Ørsted A/S District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Ørsted A/S Recent Developments/Updates
- 9.7.6 Ørsted A/S Competitive Strengths & Weaknesses
- 9.8 Tabreed
- 9.8.1 Tabreed Details
- 9.8.2 Tabreed Major Business
- 9.8.3 Tabreed District Heating Solution Product and Services
- 9.8.4 Tabreed District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 Tabreed Recent Developments/Updates
- 9.8.6 Tabreed Competitive Strengths & Weaknesses
- 9.9 Vattenfall
- 9.9.1 Vattenfall Details
- 9.9.2 Vattenfall Major Business
- 9.9.3 Vattenfall District Heating Solution Product and Services
- 9.9.4 Vattenfall District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Vattenfall Recent Developments/Updates
- 9.9.6 Vattenfall Competitive Strengths & Weaknesses
- 9.10 RWE AG
- 9.10.1 RWE AG Details
- 9.10.2 RWE AG Major Business
- 9.10.3 RWE AG District Heating Solution Product and Services
- 9.10.4 RWE AG District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 RWE AG Recent Developments/Updates
- 9.10.6 RWE AG Competitive Strengths & Weaknesses
- 9.11 Göteborg Energi

- 9.11.1 Goteborg Energi Details
- 9.11.2 Goteborg Energi Major Business
- 9.11.3 Goteborg Energi District Heating Solution Product and Services
- 9.11.4 Goteborg Energi District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Goteborg Energi Recent Developments/Updates
- 9.11.6 Goteborg Energi Competitive Strengths & Weaknesses
- 9.12 Logstor
  - 9.12.1 Logstor Details
  - 9.12.2 Logstor Major Business
  - 9.12.3 Logstor District Heating Solution Product and Services
  - 9.12.4 Logstor District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Logstor Recent Developments/Updates
  - 9.12.6 Logstor Competitive Strengths & Weaknesses
- 9.13 Shinryo
  - 9.13.1 Shinryo Details
  - 9.13.2 Shinryo Major Business
  - 9.13.3 Shinryo District Heating Solution Product and Services
  - 9.13.4 Shinryo District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Shinryo Recent Developments/Updates
  - 9.13.6 Shinryo Competitive Strengths & Weaknesses
- 9.14 Emicool
  - 9.14.1 Emicool Details
  - 9.14.2 Emicool Major Business
  - 9.14.3 Emicool District Heating Solution Product and Services
  - 9.14.4 Emicool District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Emicool Recent Developments/Updates
  - 9.14.6 Emicool Competitive Strengths & Weaknesses
- 9.15 Keppel DHCS
  - 9.15.1 Keppel DHCS Details
  - 9.15.2 Keppel DHCS Major Business
  - 9.15.3 Keppel DHCS District Heating Solution Product and Services
  - 9.15.4 Keppel DHCS District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 Keppel DHCS Recent Developments/Updates
  - 9.15.6 Keppel DHCS Competitive Strengths & Weaknesses

## 9.16 Statkraft

### 9.16.1 Statkraft Details

### 9.16.2 Statkraft Major Business

### 9.16.3 Statkraft District Heating Solution Product and Services

### 9.16.4 Statkraft District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.16.5 Statkraft Recent Developments/Updates

### 9.16.6 Statkraft Competitive Strengths & Weaknesses

## 9.17 Ramboll

### 9.17.1 Ramboll Details

### 9.17.2 Ramboll Major Business

### 9.17.3 Ramboll District Heating Solution Product and Services

### 9.17.4 Ramboll District Heating Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.17.5 Ramboll Recent Developments/Updates

### 9.17.6 Ramboll Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

### 10.1 District Heating Solution Industry Chain

### 10.2 District Heating Solution Upstream Analysis

#### 10.2.1 District Heating Solution Core Raw Materials

#### 10.2.2 Main Manufacturers of District Heating Solution Core Raw Materials

### 10.3 Midstream Analysis

### 10.4 Downstream Analysis

### 10.5 District Heating Solution Production Mode

### 10.6 District Heating Solution Procurement Model

### 10.7 District Heating Solution Industry Sales Model and Sales Channels

#### 10.7.1 District Heating Solution Sales Model

#### 10.7.2 District Heating Solution Typical Distributors

## 11 RESEARCH FINDINGS AND CONCLUSION

## 12 APPENDIX

### 12.1 Methodology

### 12.2 Research Process and Data Source

### 12.3 Disclaimer



## List Of Tables

### LIST OF TABLES

Table 1. World District Heating Solution Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World District Heating Solution Production Value by Region (2021-2026) & (USD Million)

Table 3. World District Heating Solution Production Value by Region (2027-2032) & (USD Million)

Table 4. World District Heating Solution Production Value Market Share by Region (2021-2026)

Table 5. World District Heating Solution Production Value Market Share by Region (2027-2032)

Table 6. World District Heating Solution Production by Region (2021-2026) & (TWh)

Table 7. World District Heating Solution Production by Region (2027-2032) & (TWh)

Table 8. World District Heating Solution Production Market Share by Region (2021-2026)

Table 9. World District Heating Solution Production Market Share by Region (2027-2032)

Table 10. World District Heating Solution Average Price by Region (2021-2026) & (US\$/MWh)

Table 11. World District Heating Solution Average Price by Region (2027-2032) & (US\$/MWh)

Table 12. District Heating Solution Major Market Trends

Table 13. World District Heating Solution Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (TWh)

Table 14. World District Heating Solution Consumption by Region (2021-2026) & (TWh)

Table 15. World District Heating Solution Consumption Forecast by Region (2027-2032) & (TWh)

Table 16. World District Heating Solution Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key District Heating Solution Producers in 2025

Table 18. World District Heating Solution Production by Manufacturer (2021-2026) & (TWh)

Table 19. Production Market Share of Key District Heating Solution Producers in 2025

Table 20. World District Heating Solution Average Price by Manufacturer (2021-2026) & (US\$/MWh)

- Table 21. Global District Heating Solution Company Evaluation Quadrant
- Table 22. World District Heating Solution Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and District Heating Solution Production Site of Key Manufacturer
- Table 24. District Heating Solution Market: Company Product Type Footprint
- Table 25. District Heating Solution Market: Company Product Application Footprint
- Table 26. District Heating Solution Competitive Factors
- Table 27. District Heating Solution New Entrant and Capacity Expansion Plans
- Table 28. District Heating Solution Mergers & Acquisitions Activity
- Table 29. United States VS China District Heating Solution Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China District Heating Solution Production Comparison, (2021 & 2025 & 2032) & (TWh)
- Table 31. United States VS China District Heating Solution Consumption Comparison, (2021 & 2025 & 2032) & (TWh)
- Table 32. United States Based District Heating Solution Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers District Heating Solution Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers District Heating Solution Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers District Heating Solution Production (2021-2026) & (TWh)
- Table 36. United States Based Manufacturers District Heating Solution Production Market Share (2021-2026)
- Table 37. China Based District Heating Solution Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers District Heating Solution Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers District Heating Solution Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers District Heating Solution Production, (2021-2026) & (TWh)
- Table 41. China Based Manufacturers District Heating Solution Production Market Share (2021-2026)
- Table 42. Rest of World Based District Heating Solution Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers District Heating Solution Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers District Heating Solution Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers District Heating Solution Production, (2021-2026) & (TWh)

Table 46. Rest of World Based Manufacturers District Heating Solution Production Market Share (2021-2026)

Table 47. World District Heating Solution Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World District Heating Solution Production by Type (2021-2026) & (TWh)

Table 49. World District Heating Solution Production by Type (2027-2032) & (TWh)

Table 50. World District Heating Solution Production Value by Type (2021-2026) & (USD Million)

Table 51. World District Heating Solution Production Value by Type (2027-2032) & (USD Million)

Table 52. World District Heating Solution Average Price by Type (2021-2026) & (US\$/MWh)

Table 53. World District Heating Solution Average Price by Type (2027-2032) & (US\$/MWh)

Table 54. World District Heating Solution Production Value by Pipeline Layout, (USD Million), 2021 & 2025 & 2032

Table 55. World District Heating Solution Production by Pipeline Layout (2021-2026) & (TWh)

Table 56. World District Heating Solution Production by Pipeline Layout (2027-2032) & (TWh)

Table 57. World District Heating Solution Production Value by Pipeline Layout (2021-2026) & (USD Million)

Table 58. World District Heating Solution Production Value by Pipeline Layout (2027-2032) & (USD Million)

Table 59. World District Heating Solution Average Price by Pipeline Layout (2021-2026) & (US\$/MWh)

Table 60. World District Heating Solution Average Price by Pipeline Layout (2027-2032) & (US\$/MWh)

Table 61. World District Heating Solution Production Value by User Scope, (USD Million), 2021 & 2025 & 2032

Table 62. World District Heating Solution Production by User Scope (2021-2026) & (TWh)

Table 63. World District Heating Solution Production by User Scope (2027-2032) & (TWh)

Table 64. World District Heating Solution Production Value by User Scope (2021-2026)

& (USD Million)

Table 65. World District Heating Solution Production Value by User Scope (2027-2032)

& (USD Million)

Table 66. World District Heating Solution Average Price by User Scope (2021-2026) & (US\$/MWh)

Table 67. World District Heating Solution Average Price by User Scope (2027-2032) & (US\$/MWh)

Table 68. World District Heating Solution Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World District Heating Solution Production by Application (2021-2026) & (TWh)

Table 70. World District Heating Solution Production by Application (2027-2032) & (TWh)

Table 71. World District Heating Solution Production Value by Application (2021-2026) & (USD Million)

Table 72. World District Heating Solution Production Value by Application (2027-2032) & (USD Million)

Table 73. World District Heating Solution Average Price by Application (2021-2026) & (US\$/MWh)

Table 74. World District Heating Solution Average Price by Application (2027-2032) & (US\$/MWh)

Table 75. ENGIE Basic Information, Manufacturing Base and Competitors

Table 76. ENGIE Major Business

Table 77. ENGIE District Heating Solution Product and Services

Table 78. ENGIE District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. ENGIE Recent Developments/Updates

Table 80. ENGIE Competitive Strengths & Weaknesses

Table 81. NRG Energy Basic Information, Manufacturing Base and Competitors

Table 82. NRG Energy Major Business

Table 83. NRG Energy District Heating Solution Product and Services

Table 84. NRG Energy District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. NRG Energy Recent Developments/Updates

Table 86. NRG Energy Competitive Strengths & Weaknesses

Table 87. Fortum Basic Information, Manufacturing Base and Competitors

Table 88. Fortum Major Business

Table 89. Fortum District Heating Solution Product and Services

Table 90. Fortum District Heating Solution Production (TWh), Price (US\$/MWh),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Fortum Recent Developments/Updates

Table 92. Fortum Competitive Strengths & Weaknesses

Table 93. Empower Basic Information, Manufacturing Base and Competitors

Table 94. Empower Major Business

Table 95. Empower District Heating Solution Product and Services

Table 96. Empower District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Empower Recent Developments/Updates

Table 98. Empower Competitive Strengths & Weaknesses

Table 99. ADC Energy Systems Basic Information, Manufacturing Base and Competitors

Table 100. ADC Energy Systems Major Business

Table 101. ADC Energy Systems District Heating Solution Product and Services

Table 102. ADC Energy Systems District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ADC Energy Systems Recent Developments/Updates

Table 104. ADC Energy Systems Competitive Strengths & Weaknesses

Table 105. STEAG Basic Information, Manufacturing Base and Competitors

Table 106. STEAG Major Business

Table 107. STEAG District Heating Solution Product and Services

Table 108. STEAG District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. STEAG Recent Developments/Updates

Table 110. STEAG Competitive Strengths & Weaknesses

Table 111. ?rsted A/S Basic Information, Manufacturing Base and Competitors

Table 112. ?rsted A/S Major Business

Table 113. ?rsted A/S District Heating Solution Product and Services

Table 114. ?rsted A/S District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. ?rsted A/S Recent Developments/Updates

Table 116. ?rsted A/S Competitive Strengths & Weaknesses

Table 117. Tabreed Basic Information, Manufacturing Base and Competitors

Table 118. Tabreed Major Business

Table 119. Tabreed District Heating Solution Product and Services

Table 120. Tabreed District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Tabreed Recent Developments/Updates

- Table 122. Tabreed Competitive Strengths & Weaknesses
- Table 123. Vattenfall Basic Information, Manufacturing Base and Competitors
- Table 124. Vattenfall Major Business
- Table 125. Vattenfall District Heating Solution Product and Services
- Table 126. Vattenfall District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Vattenfall Recent Developments/Updates
- Table 128. Vattenfall Competitive Strengths & Weaknesses
- Table 129. RWE AG Basic Information, Manufacturing Base and Competitors
- Table 130. RWE AG Major Business
- Table 131. RWE AG District Heating Solution Product and Services
- Table 132. RWE AG District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. RWE AG Recent Developments/Updates
- Table 134. RWE AG Competitive Strengths & Weaknesses
- Table 135. Goteborg Energi Basic Information, Manufacturing Base and Competitors
- Table 136. Goteborg Energi Major Business
- Table 137. Goteborg Energi District Heating Solution Product and Services
- Table 138. Goteborg Energi District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Goteborg Energi Recent Developments/Updates
- Table 140. Goteborg Energi Competitive Strengths & Weaknesses
- Table 141. Logstor Basic Information, Manufacturing Base and Competitors
- Table 142. Logstor Major Business
- Table 143. Logstor District Heating Solution Product and Services
- Table 144. Logstor District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Logstor Recent Developments/Updates
- Table 146. Logstor Competitive Strengths & Weaknesses
- Table 147. Shinryo Basic Information, Manufacturing Base and Competitors
- Table 148. Shinryo Major Business
- Table 149. Shinryo District Heating Solution Product and Services
- Table 150. Shinryo District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Shinryo Recent Developments/Updates
- Table 152. Shinryo Competitive Strengths & Weaknesses
- Table 153. Emicool Basic Information, Manufacturing Base and Competitors
- Table 154. Emicool Major Business

- Table 155. Emicool District Heating Solution Product and Services
- Table 156. Emicool District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Emicool Recent Developments/Updates
- Table 158. Emicool Competitive Strengths & Weaknesses
- Table 159. Keppel DHCS Basic Information, Manufacturing Base and Competitors
- Table 160. Keppel DHCS Major Business
- Table 161. Keppel DHCS District Heating Solution Product and Services
- Table 162. Keppel DHCS District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Keppel DHCS Recent Developments/Updates
- Table 164. Keppel DHCS Competitive Strengths & Weaknesses
- Table 165. Statkraft Basic Information, Manufacturing Base and Competitors
- Table 166. Statkraft Major Business
- Table 167. Statkraft District Heating Solution Product and Services
- Table 168. Statkraft District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Statkraft Recent Developments/Updates
- Table 170. Statkraft Competitive Strengths & Weaknesses
- Table 171. Ramboll Basic Information, Manufacturing Base and Competitors
- Table 172. Ramboll Major Business
- Table 173. Ramboll District Heating Solution Product and Services
- Table 174. Ramboll District Heating Solution Production (TWh), Price (US\$/MWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Ramboll Recent Developments/Updates
- Table 176. Ramboll Competitive Strengths & Weaknesses
- Table 177. Global Key Players of District Heating Solution Upstream (Raw Materials)
- Table 178. Global District Heating Solution Typical Customers
- Table 179. District Heating Solution Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. District Heating Solution Picture

Figure 2. World District Heating Solution Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World District Heating Solution Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World District Heating Solution Production (2021-2032) & (TWh)

Figure 5. World District Heating Solution Average Price (2021-2032) & (US\$/MWh)

Figure 6. World District Heating Solution Production Value Market Share by Region (2021-2032)

Figure 7. World District Heating Solution Production Market Share by Region (2021-2032)

Figure 8. North America District Heating Solution Production (2021-2032) & (TWh)

Figure 9. Europe District Heating Solution Production (2021-2032) & (TWh)

Figure 10. China District Heating Solution Production (2021-2032) & (TWh)

Figure 11. Japan District Heating Solution Production (2021-2032) & (TWh)

Figure 12. District Heating Solution Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World District Heating Solution Consumption (2021-2032) & (TWh)

Figure 15. World District Heating Solution Consumption Market Share by Region (2021-2032)

Figure 16. United States District Heating Solution Consumption (2021-2032) & (TWh)

Figure 17. China District Heating Solution Consumption (2021-2032) & (TWh)

Figure 18. Europe District Heating Solution Consumption (2021-2032) & (TWh)

Figure 19. Japan District Heating Solution Consumption (2021-2032) & (TWh)

Figure 20. South Korea District Heating Solution Consumption (2021-2032) & (TWh)

Figure 21. ASEAN District Heating Solution Consumption (2021-2032) & (TWh)

Figure 22. India District Heating Solution Consumption (2021-2032) & (TWh)

Figure 23. Producer Shipments of District Heating Solution by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for District Heating Solution Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for District Heating Solution Markets in 2025

Figure 26. United States VS China: District Heating Solution Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: District Heating Solution Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: District Heating Solution Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers District Heating Solution Production Market Share 2025

Figure 30. China Based Manufacturers District Heating Solution Production Market Share 2025

Figure 31. Rest of World Based Manufacturers District Heating Solution Production Market Share 2025

Figure 32. World District Heating Solution Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World District Heating Solution Production Value Market Share by Type in 2025

Figure 34. Combined Heat and Power

Figure 35. Fossil Fuel/Biomass

Figure 36. Geothermal Heat

Figure 37. Solar Heat

Figure 38. Industrial Heat Pumps

Figure 39. World District Heating Solution Production Market Share by Type (2021-2032)

Figure 40. World District Heating Solution Production Value Market Share by Type (2021-2032)

Figure 41. World District Heating Solution Average Price by Type (2021-2032) & (US\$/MWh)

Figure 42. World District Heating Solution Production Value by Pipeline Layout, (USD Million), 2021 & 2025 & 2032

Figure 43. World District Heating Solution Production Value Market Share by Pipeline Layout in 2025

Figure 44. Branched

Figure 45. Ringed

Figure 46. Multistage Pump Distributed

Figure 47. World District Heating Solution Production Market Share by Pipeline Layout (2021-2032)

Figure 48. World District Heating Solution Production Value Market Share by Pipeline Layout (2021-2032)

Figure 49. World District Heating Solution Average Price by Pipeline Layout (2021-2032) & (US\$/MWh)

Figure 50. World District Heating Solution Production Value by User Scope, (USD

Million), 2021 & 2025 & 2032

Figure 51. World District Heating Solution Production Value Market Share by User Scope in 2025

Figure 52. Local Area

Figure 53. City-level

Figure 54. Intercity

Figure 55. World District Heating Solution Production Market Share by User Scope (2021-2032)

Figure 56. World District Heating Solution Production Value Market Share by User Scope (2021-2032)

Figure 57. World District Heating Solution Average Price by User Scope (2021-2032) & (US\$/MWh)

Figure 58. World District Heating Solution Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World District Heating Solution Production Value Market Share by Application in 2025

Figure 60. Residential

Figure 61. Commercial

Figure 62. Industrial

Figure 63. World District Heating Solution Production Market Share by Application (2021-2032)

Figure 64. World District Heating Solution Production Value Market Share by Application (2021-2032)

Figure 65. World District Heating Solution Average Price by Application (2021-2032) & (US\$/MWh)

Figure 66. District Heating Solution Industry Chain

Figure 67. District Heating Solution Procurement Model

Figure 68. District Heating Solution Sales Model

Figure 69. District Heating Solution Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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