

District Heating Market by Heat Source (Coal, Natural Gas, Geothermal, Biomass & Biofuel, Solar, Oil & Petroleum Products), Component (Boiler, Heat Exchanger, Heat Pumps), Plant Type (CHP, Boiler), Application and Region - Global Forecast to 2028

<https://marketpublishers.com/r/FD3503F50C0EN.html>

Date: November 2023

Pages: 222

Price: US\$ 4,950.00 (Single User License)

ID: FD3503F50C0EN

Abstracts

The global district heating market is expected to be valued at USD 191.5 billion in 2023 and is projected to reach USD 242.1 billion by 2028; it is expected to grow at a CAGR of 4.8% from 2023 to 2028. The increasing trends of urbanization and industrialization are propelling an increased need for energy across various sectors, particularly in densely populated urban centers and industrial hubs. District heating systems emerge as a fitting solution for these areas, characterized by a concentration of buildings requiring heating and a substantial demand for heat in industrial operations. This centralized approach not only ensures dependable heating services but also contributes significantly to the reduction of pollution and overall energy consumption. Urbanization stands out as a prominent global megatrend, with ongoing urban development driving a heightened demand for district heating. The shift in population from rural to urban areas has resulted in a notable increase in public expenditures. This demographic shift has, in turn, spurred a consistent rise in the demand for heating, prompting substantial investments in the district heating sector. The growth of urban areas facilitates organized infrastructure development, creating a conducive environment for the implementation of district heating solutions.

“Renewables heat sources are growing at highest CAGR in district heating market”

The renewables segment in the district heating market, encompassing sources such as geothermal, biomass & biofuel, and others like solar and wind, is experiencing the highest CAGR due to an escalating global emphasis on sustainable and eco-friendly

energy solutions. As concerns about climate change intensify, there is a growing recognition of the environmental benefits offered by renewable energy sources. Governments and industries worldwide are increasingly investing in technologies that harness the power of nature, promoting the integration of renewable energy into district heating systems. The inherent advantages of renewables, including their ability to reduce carbon emissions, enhance energy security, and provide a reliable and consistent heat supply, are driving this segment's rapid growth. Additionally, advancements in renewable energy technologies, coupled with supportive policies and incentives, further contribute to the revenue growth observed in the renewables segment within the district heating market.

“Boiler plants accounts for second-largest share in district heating market”

Boiler plants secure the second-largest share in the district heating market by plant type due to their widespread adoption and versatility in providing cost-effective and efficient heat generation. Boilers are established and well-understood technologies with the capability to use various heat sources, including fossil fuels and biomass. Their adaptability makes them suitable for diverse applications in district heating systems, accommodating different scales of operation. Boiler plants offer a reliable and controllable means of producing heat, meeting the demands of both residential and industrial consumers. The familiarity, affordability, and proven performance of boiler plants contribute to their prominent market position, making them a preferred choice for district heating solutions globally.

“Europe holds largest market share in district heating market.”

Europe dominates the district heating market by region, claiming the largest share, primarily due to a combination of historical infrastructure development, stringent environmental regulations, and a commitment to sustainable energy practices. Many European countries have a long-standing tradition of district heating systems, dating back decades, which has laid a robust foundation for their widespread adoption. Additionally, the region's proactive approach to combatting climate change has driven a shift towards cleaner and more efficient heating solutions. Stringent emissions standards and ambitious renewable energy targets have incentivized the expansion and modernization of district heating networks, utilizing a mix of renewable and waste heat sources. The European region's commitment to reducing carbon emissions and enhancing energy efficiency, coupled with a well-established district heating infrastructure, positions it as a leader in the global market.

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1 – 10%, Tier 2 – 20%, and Tier 3 – 70%

By Designation: C-level Executives – 40%, Directors – 30%, and Others – 30%

By Region: Americas – 40%, Europe – 40%, Asia Pacific – 20%

The key players operating in the district heating market are Fortum (Finland), Vattenfall (Sweden), ENGIE (France), Danfoss (Denmark), Statkraft (Norway) among others.

Research Coverage:

The research reports the District Heating Market, By Heat Source (Coal, Natural Gas, Renewables (Geothermal, Biomass & Biofuel, and Others), Oil & Petroleum Products, Others), By Plant Type (Boiler Plants, Combined Heat and Power, and Others), Application (Residential, Commercial, and Industrial), and Region (Americas, Europe, and Asia Pacific). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the district heating market. A detailed analysis of the key industry players has been done to provide insights into their business overviews, products, key strategies, Contracts, partnerships, and agreements. New product & service launches, mergers and acquisitions, and recent developments associated with the district heating market. Competitive analysis of upcoming startups in the district heating market ecosystem is covered in this report.

Key Benefits of Buying the Report

Analysis of key drivers (Rising focus on energy-efficient and cost-effective heating systems)

Rapid growth in urbanization and industrialization propelling demand for sustainable heating services, Increasing shift towards renewable sources in district heating, Lower operating costs as compared with in-building heating systems, Increasing policy initiatives by governments and associations, Carbon tax and emissions reduction driving adoption of district heating solutions), restraints (High investment costs of district heating infrastructure, Unsuitability of

large district heating network for small heat loads, and Regulatory and permitting hurdles), opportunities (Increasing focus on waste heat recovery for district heating, Rising number of initiatives related to clean energy production, Integration of multiple energy sources in heat generation, and Digitalization in district heating networks), and challenges (Necessity of robust transportation infrastructure and equipment, Load prediction and better utilization challenges of heating systems, and Limited availability of district heating networks in waste heat recovery) influencing the growth of the district heating market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the district heating market

Market Development: Comprehensive information about lucrative markets – the report analyses the district heating market across varied regions.

Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the district heating market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Fortum (Finland), Vattenfall (Sweden), ENGIE (France), Danfoss (Denmark), Statkraft (Norway), among others in the district heating market.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 DISTRICT HEATING MARKET: SEGMENTATION

1.3.2 REGIONAL SCOPE

1.3.3 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

1.5 LIMITATIONS

1.6 UNIT CONSIDERED

1.7 STAKEHOLDERS

1.8 SUMMARY OF CHANGES

1.8.1 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH APPROACH

FIGURE 2 DISTRICT HEATING MARKET: RESEARCH DESIGN

2.1.1 SECONDARY AND PRIMARY RESEARCH

2.1.2 SECONDARY DATA

2.1.2.1 List of major secondary sources

2.1.2.2 Key data from secondary sources

2.1.3 PRIMARY DATA

2.1.3.1 List of key interview participants

2.1.3.2 Breakdown of primaries

2.1.3.3 Key data from primary sources

2.1.3.4 Key industry insights

2.2 MARKET SIZE ESTIMATION

FIGURE 3 PROCESS FLOW OF MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach to derive market size using bottom-up analysis (demand side)

FIGURE 4 DISTRICT HEATING MARKET: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach to derive market size using top-down analysis (supply side)

FIGURE 5 DISTRICT HEATING MARKET: TOP-DOWN APPROACH

2.2.3 SUPPLY-SIDE ANALYSIS

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY (SUPPLY-SIDE ANALYSIS): REVENUES GENERATED BY COMPANIES FROM SALES OF DISTRICT HEATING SYSTEMS

2.3 DATA TRIANGULATION

FIGURE 7 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

2.5 RESEARCH LIMITATIONS

2.6 PARAMETERS CONSIDERED TO ANALYZE RECESSION IMPACT ON DISTRICT HEATING MARKET

2.7 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 8 RENEWABLE HEAT SOURCES TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 9 COMBINED AND HEAT POWER PLANTS TO HOLD LARGEST MARKET SHARE IN 2028

FIGURE 10 RESIDENTIAL APPLICATION IN DISTRICT HEATING MARKET TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 11 EUROPE TO HOLD LARGEST MARKET SHARE IN GLOBAL DISTRICT HEATING MARKET THROUGHOUT FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN DISTRICT HEATING MARKET

FIGURE 12 RAPID URBANIZATION AND INDUSTRIALIZATION TO PROPEL DEMAND FOR SUSTAINABLE HEATING SERVICES

4.2 DISTRICT HEATING MARKET, BY PLANT TYPE

FIGURE 13 COMBINED HEAT AND POWER PLANT SEGMENT TO HOLD LARGEST MARKET SHARE FROM 2023 TO 2028

4.3 DISTRICT HEATING MARKET, BY APPLICATION

FIGURE 14 RESIDENTIAL APPLICATION TO DOMINATE MARKET THROUGHOUT FORECAST PERIOD

4.4 DISTRICT HEATING MARKET IN EUROPE, BY INDUSTRY AND COUNTRY

FIGURE 15 RESIDENTIAL SEGMENT AND GERMANY HELD LARGEST SHARES OF EUROPEAN DISTRICT HEATING MARKET IN 2022

4.5 DISTRICT HEATING MARKET, BY COUNTRY

FIGURE 16 CHINA TO RECORD HIGHEST CAGR IN GLOBAL DISTRICT HEATING MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 17 DISTRICT HEATING MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

FIGURE 18 DISTRICT HEATING MARKET: IMPACT ANALYSIS OF DRIVERS

5.2.1.1 High demand for energy-efficient and cost-effective heating systems

5.2.1.2 Rapid urbanization and industrialization

5.2.1.3 Increased use of renewable sources to run district heating systems

5.2.1.4 Relatively low operating costs of district heating systems than in-building heating systems

5.2.1.5 Government-led incentives and subsidies offered for low-carbon technology-based products

5.2.1.6 Enforcement of carbon tax on fossil fuel-powered heating solutions

5.2.2 RESTRAINTS

FIGURE 19 DISTRICT HEATING MARKET: IMPACT ANALYSIS OF RESTRAINTS

5.2.2.1 Need for high initial investment

5.2.2.2 Barriers to district heating network deployment in small-scale projects

5.2.2.3 Time-consuming and complex regulatory approval processes

5.2.3 OPPORTUNITIES

FIGURE 20 DISTRICT HEATING MARKET: IMPACT ANALYSIS OF OPPORTUNITIES

5.2.3.1 Increasing focus on waste heat recovery for district heating

5.2.3.2 Enforcement of policies boosting renewable energy production

5.2.3.3 Integration of multiple energy sources in heat generation

5.2.3.4 Utilization of digital technology in district heating networks

5.2.4 CHALLENGES

FIGURE 21 DISTRICT HEATING MARKET: IMPACT ANALYSIS OF CHALLENGES

5.2.4.1 Requirement for smart meters to prevent heat loss during heat distribution process

5.2.4.2 Need for precise load planning and better utilization of heating systems

5.2.4.3 Limited number of district heating networks to harness waste heat

5.3 VALUE CHAIN ANALYSIS

FIGURE 22 DISTRICT HEATING MARKET: VALUE CHAIN ANALYSIS

5.4 ECOSYSTEM ANALYSIS

FIGURE 23 ECOSYSTEM ANALYSIS

TABLE 1 COMPANIES AND THEIR ROLES IN DISTRICT HEATING ECOSYSTEM

5.5 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 24 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.6 PRICING ANALYSIS

5.6.1 AVERAGE SELLING PRICE (ASP) TREND OF DISTRICT HEATING SYSTEMS OFFERED BY TOP THREE KEY PLAYERS

FIGURE 25 AVERAGE SELLING PRICE (ASP) TREND OF DISTRICT HEATING SYSTEMS OFFERED BY TOP THREE KEY PLAYERS

TABLE 2 AVERAGE SELLING PRICE (ASP) TREND OF DISTRICT HEATING PRODUCTS OFFERED BY KEY PLAYERS (USD/MWH)

5.6.2 AVERAGE SELLING PRICE (ASP) TREND OF DISTRICT HEATING PRODUCTS, BY APPLICATION

FIGURE 26 AVERAGE SELLING PRICE (ASP) TREND OF DISTRICT HEATING PRODUCTS, BY APPLICATION (USD/MWH)

5.6.3 AVERAGE SELLING PRICE (ASP) TREND OF DISTRICT HEATING PRODUCTS, BY REGION

FIGURE 27 AVERAGE SELLING PRICE (ASP) TREND OF DISTRICT HEATING PRODUCTS, BY REGION (USD/MWH)

5.7 TECHNOLOGY ANALYSIS

5.7.1 USE OF BIOFUELS FOR DISTRICT HEATING

5.7.2 GEOTHERMAL ENERGY IN DISTRICT HEATING

5.7.3 USAGE OF WASTE HEAT FROM HYDROGEN PRODUCTION

5.7.4 FIFTH-GENERATION DISTRICT HEATING

5.7.5 USE OF NUCLEAR ENERGY FOR DISTRICT HEATING

5.7.6 SMART DISTRICT HEATING

5.7.7 CARBON CAPTURE AND UTILIZATION (CCU)

5.8 PORTER'S FIVE FORCES ANALYSIS

TABLE 3 DISTRICT HEATING MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 28 PORTER'S FIVE FORCES ANALYSIS

5.8.1 THREAT OF NEW ENTRANTS

5.8.2 THREAT OF SUBSTITUTES

5.8.3 BARGAINING POWER OF SUPPLIERS

5.8.4 BARGAINING POWER OF BUYERS

5.8.5 INTENSITY OF COMPETITIVE RIVALRY

5.9 KEY STAKEHOLDERS AND BUYING CRITERIA

5.9.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 29 KEY STAKEHOLDERS IN BUYING PROCESS FOR TOP THREE

APPLICATIONS

TABLE 4 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE APPLICATIONS

5.9.2 BUYING CRITERIA

FIGURE 30 KEY BUYING CRITERIA FOR TOP THREE APPLICATION

TABLE 5 KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS

5.10 KEY INVESTMENTS IN DISTRICT HEATING

5.11 CASE STUDY ANALYSIS

5.11.1 FORTUM PARTNERS WITH MICROSOFT TO ACHIEVE CARBON-NEUTRAL HEATING USING DATA CENTER WASTE HEAT RECOVERY

5.11.2 DANFOSS CONSTRUCTS DISTRICT HEATING SYSTEMS AT TEKNOPARK, ISTANBUL, TO ADDRESS COMPLEX REQUIREMENTS OF PROJECT

5.11.3 FYN CONSULTS RAMBOLI TO DEVELOP HEAT PUMP SYSTEM THAT TRANSFERS SURPLUS ENERGY FROM FACEBOOK DATA CENTER TO DISTRICT HEATING NETWORK OF ODENSE

5.11.4 VITAL ENERGI PROVIDES LOW-CARBON AND HOT WATER TO CAMDEN LOCKS VIA BURIED DISTRICT HEATING AND COOLING NETWORK

5.12 TRADE ANALYSIS

5.12.1 IMPORT SCENARIO

TABLE 6 IMPORT DATA FOR HS CODE 841861-COMPLIANT PRODUCTS, BY COUNTRY, 2018–2022 (USD MILLION)

5.12.2 EXPORT SCENARIO

TABLE 7 EXPORT DATA FOR HS CODE 841861-COMPLIANT PRODUCTS, BY COUNTRY, 2018–2022 (USD MILLION)

5.12.3 TARIFFS

TABLE 8 MFN TARIFF FOR HS CODE 841861-COMPLIANT PRODUCTS EXPORTED BY CHINA

TABLE 9 MFN TARIFF FOR HS CODE 841861-COMPLIANT PRODUCTS EXPORTED BY FRANCE

5.13 PATENT ANALYSIS, 2020–2023

TABLE 10 DISTRICT HEATING MARKET: LIST OF PATENTS, 2020–2023

FIGURE 31 NUMBER OF PATENTS GRANTED PER YEAR, 2013–2022

TABLE 11 NUMBER OF PATENTS REGISTERED IN LAST 10 YEARS

FIGURE 32 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS IN LAST 10 YEARS

5.14 KEY CONFERENCES AND EVENTS, 2024–2025

TABLE 12 DISTRICT HEATING MARKET: LIST OF CONFERENCES AND EVENTS

5.15 REGULATORY LANDSCAPE AND STANDARDS

5.15.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER

ORGANIZATIONS

TABLE 13 AMERICAS: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.15.2 STANDARDS AND REGULATIONS

5.15.2.1 Standards

5.15.2.2 Regulations

6 COMPONENTS OF DISTRICT HEATING PRODUCTS

6.1 INTRODUCTION

6.2 BOILERS

6.2.1 ABILITY TO CONVERT HEAT SOURCES INTO USABLE THERMAL ENERGY TO BOOST DEMAND

6.3 INSULATED PIPELINES

6.3.1 REDUCED ENERGY WASTAGE AND MINIMIZED HEAT LOSSES DURING TRANSIT TO FUEL MARKET GROWTH

6.4 HEAT PUMPS

6.4.1 ABILITY TO UTILIZE LOW-GRADE HEAT SOURCES TO DRIVE DEMAND

6.4.2 AIR-TO-AIR HEAT PUMPS

6.4.2.1 Potential energy-efficient alternative to traditional heating systems to accelerate demand

6.4.3 AIR-TO-WATER HEAT PUMPS

6.4.3.1 Ability to exhibit high performance in cold climates to support market growth

6.4.4 WATER SOURCE HEAT PUMPS

6.4.4.1 Significant contribution to reduced energy consumption and environmental impact to drive market

6.4.5 GEOTHERMAL HEAT PUMPS

6.4.5.1 Ongoing advancements in geothermal heat pump technology to boost demand

6.4.6 HYBRID HEAT PUMPS

6.4.6.1 Enhanced system resilience and optimized energy utilization to drive market

6.5 HEAT EXCHANGERS

6.5.1 OPTIMIZED ENERGY EXCHANGE PROCESS AND ENHANCED OVERALL SYSTEM PERFORMANCE TO FOSTER SEGMENTAL GROWTH

6.6 HEAT METERS

6.6.1 ADOPTION OF SMART METERING TECHNOLOGIES TO OFFER LUCRATIVE GROWTH OPPORTUNITIES TO PLAYERS

7 DISTRICT HEATING MARKET, BY HEAT SOURCE

7.1 INTRODUCTION

FIGURE 33 RENEWABLES SEGMENT TO DISPLAY HIGHEST CAGR DURING FORECAST PERIOD

TABLE 16 DISTRICT HEATING MARKET, BY HEAT SOURCE, 2019–2022 (USD BILLION)

TABLE 17 DISTRICT HEATING MARKET, BY HEAT SOURCE, 2023–2028 (USD BILLION)

7.2 COAL

7.2.1 GROWING ADOPTION OF CLEAN COAL TECHNOLOGIES TO MITIGATE ENVIRONMENTAL IMPACT TO BOOST DEMAND

TABLE 18 COAL: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 19 COAL: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

7.3 NATURAL GAS

7.3.1 RISING INVESTMENTS IN NATURAL GAS INFRASTRUCTURE DEVELOPMENT TO DRIVE MARKET

TABLE 20 NATURAL GAS: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 21 NATURAL GAS: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

7.4 RENEWABLES

7.4.1 GOVERNMENT INCENTIVES TO PROMOTE RENEWABLE ENERGY SOURCES TO BOOST DEMAND

TABLE 22 RENEWABLES: DISTRICT HEATING MARKET, BY ENERGY TYPE, 2019–2022 (USD BILLION)

TABLE 23 RENEWABLES: DISTRICT HEATING MARKET, BY ENERGY TYPE, 2023–2028 (USD BILLION)

TABLE 24 RENEWABLES: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 25 RENEWABLES: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

7.4.2 GEOTHERMAL

7.4.2.1 Increased exploration of geothermal resources for power generation to fuel

demand

7.4.3 BIOMASS AND BIOFUEL

7.4.3.1 Increasing shift toward waste reduction and renewable energy production to drive segmental growth

7.4.4 OTHER ENERGY TYPES

7.5 OIL AND PETROLEUM PRODUCTS

7.5.1 REGIONS WITH LIMITED RENEWABLE ENERGY SOURCES TO GENERATE SIGNIFICANT DEMAND

TABLE 26 OIL AND PETROLEUM PRODUCTS: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 27 OIL AND PETROLEUM PRODUCTS: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

7.6 OTHER HEAT SOURCES

TABLE 28 OTHER HEAT SOURCES: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 29 OTHER HEAT SOURCES: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

8 DISTRICT HEATING MARKET, BY PLANT TYPE

8.1 INTRODUCTION

FIGURE 34 COMBINED HEAT AND POWER PLANTS TO EXHIBIT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 30 DISTRICT HEATING MARKET, BY PLANT TYPE, 2019–2022 (USD BILLION)

TABLE 31 DISTRICT HEATING MARKET, BY PLANT TYPE, 2023–2028 (USD BILLION)

8.2 BOILER PLANTS

8.2.1 INTEGRATION OF CLEANER FUELS WITH BOILERS TO FOSTER SEGMENTAL GROWTH

TABLE 32 BOILER PLANTS: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 33 BOILER PLANTS: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

8.3 COMBINED HEAT AND POWER PLANTS

8.3.1 ABILITY TO GENERATE ELECTRICITY AND THERMAL ENERGY FROM SINGLE SOURCE TO DRIVE MARKET

TABLE 34 COMBINED HEAT AND POWER PLANTS: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 35 COMBINED HEAT AND POWER PLANTS: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

8.4 OTHER PLANT TYPES

TABLE 36 OTHER PLANT TYPES: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 37 OTHER PLANT TYPES: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

9 DISTRICT HEATING MARKET, BY APPLICATION

9.1 INTRODUCTION

FIGURE 35 RESIDENTIAL SEGMENT TO DOMINATE MARKET THROUGHOUT FORECAST PERIOD

TABLE 38 DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 39 DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

9.2 RESIDENTIAL

9.2.1 INCREASING BUILDING RETROFITTING FOR EFFECTIVE UTILIZATION OF ENERGY TO BOOST DEMAND

TABLE 40 RESIDENTIAL: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 41 RESIDENTIAL: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

9.3 COMMERCIAL

9.3.1 GROWING ADOPTION OF GREEN BUILDING PRACTICES IN COMMERCIAL SECTOR TO FOSTER SEGMENTAL GROWTH

TABLE 42 COMMERCIAL: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 43 COMMERCIAL: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

9.4 INDUSTRIAL

9.4.1 REDUCED OPERATIONAL COSTS WITH BETTER ROI TO ATTRACT MAJOR PLAYERS

TABLE 44 RESIDENTIAL: DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 45 RESIDENTIAL: DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

10 DISTRICT HEATING MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 36 ASIA PACIFIC TO RECORD HIGHEST CAGR DURING FORECAST PERIOD

TABLE 46 DISTRICT HEATING MARKET, BY REGION, 2019–2022 (USD BILLION)

TABLE 47 DISTRICT HEATING MARKET, BY REGION, 2023–2028 (USD BILLION)

10.2 AMERICAS

FIGURE 37 AMERICAS: DISTRICT HEATING MARKET SNAPSHOT

TABLE 48 AMERICAS: DISTRICT HEATING MARKET, BY GEOGRAPHY, 2019–2022 (USD BILLION)

TABLE 49 AMERICAS: DISTRICT HEATING MARKET, BY GEOGRAPHY, 2023–2028 (USD BILLION)

TABLE 50 AMERICAS: DISTRICT HEATING MARKET, BY HEAT SOURCE, 2019–2022 (USD BILLION)

TABLE 51 AMERICAS: DISTRICT HEATING MARKET, BY HEAT SOURCE, 2023–2028 (USD BILLION)

TABLE 52 AMERICAS: DISTRICT HEATING MARKET, BY PLANT TYPE, 2019–2022 (USD BILLION)

TABLE 53 AMERICAS: DISTRICT HEATING MARKET, BY PLANT TYPE, 2023–2028 (USD BILLION)

TABLE 54 AMERICAS: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 55 AMERICAS: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.2.1 US

10.2.1.1 Government-led initiatives encouraging adoption of clean energy sources to drive demand

TABLE 56 US: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 57 US: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.2.2 CANADA

10.2.2.1 Growing government investments in sustainable solutions to boost demand

TABLE 58 CANADA: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 59 CANADA: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.2.3 SOUTH AMERICA

10.2.3.1 Increasing focus of public–private partnerships on developing advanced district heating systems to drive market

TABLE 60 SOUTH AMERICA: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 61 SOUTH AMERICA: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.2.4 AMERICAS: RECESSION IMPACT

10.3 EUROPE

FIGURE 38 EUROPE: DISTRICT HEATING MARKET SNAPSHOT

TABLE 62 EUROPE: DISTRICT HEATING MARKET, BY COUNTRY, 2019–2022 (USD BILLION)

TABLE 63 EUROPE: DISTRICT HEATING MARKET, BY COUNTRY, 2023–2028 (USD BILLION)

TABLE 64 EUROPE: DISTRICT HEATING MARKET, BY HEAT SOURCE, 2019–2022 (USD BILLION)

TABLE 65 EUROPE: DISTRICT HEATING MARKET, BY HEAT SOURCE, 2023–2028 (USD BILLION)

TABLE 66 EUROPE: DISTRICT HEATING MARKET, BY PLANT TYPE, 2019–2022 (USD BILLION)

TABLE 67 EUROPE: DISTRICT HEATING MARKET, BY PLANT TYPE, 2023–2028 (USD BILLION)

TABLE 68 EUROPE: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 69 EUROPE: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.1 GERMANY

10.3.1.1 Technological advancements and digitalization of district heating services to drive market

TABLE 70 GERMANY: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 71 GERMANY: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.2 POLAND

10.3.2.1 Increasing focus on achieving climate-neutrality goal to boost demand

TABLE 72 POLAND: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 73 POLAND: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.3 FINLAND

10.3.3.1 Rising focus on decarbonization and investments in sustainable waste heat solutions to support market

TABLE 74 FINLAND: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 75 FINLAND: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.4 FRANCE

10.3.4.1 Emphasis of residential sector on achieving net-zero energy building to promote deployment of district heating solutions

TABLE 76 FRANCE: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 77 FRANCE: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.5 CZECH REPUBLIC

10.3.5.1 Implementation of favorable government schemes to support EU Green Deal objectives to accelerate demand

TABLE 78 CZECH REPUBLIC: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 79 CZECH REPUBLIC: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.6 AUSTRIA

10.3.6.1 Strong focus to achieving climate neutrality using district heating systems to boost demand

TABLE 80 AUSTRIA: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 81 AUSTRIA: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.7 SLOVAKIA

10.3.7.1 Modernization and enhancement of existing district heating infrastructure to propel demand

TABLE 82 SLOVAKIA: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 83 SLOVAKIA: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.8 UK

10.3.8.1 Government initiatives toward achieving net-zero greenhouse gas emissions to drive market

TABLE 84 UK: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 85 UK: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.9 SCANDINAVIAN

10.3.9.1 Increased use of CHP plants to contribute to market growth

TABLE 86 SCANDINAVIAN: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 87 SCANDINAVIAN: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.10 BALKANS

10.3.10.1 Financial aid by European Commission to encourage application of renewable heating sources to drive market

TABLE 88 BALKANS: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 89 BALKANS: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.11 BALTICS

10.3.11.1 Investments to modernize and optimize district heating infrastructure to boost demand

TABLE 90 BALTICS: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 91 BALTICS: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.12 REST OF EUROPE

TABLE 92 REST OF EUROPE: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022 (USD BILLION)

TABLE 93 REST OF EUROPE: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028 (USD BILLION)

10.3.13 EUROPE: RECESSION IMPACT

10.4 ASIA PACIFIC

FIGURE 39 ASIA PACIFIC: DISTRICT HEATING MARKET SNAPSHOT

TABLE 94 ASIA PACIFIC: DISTRICT HEATING MARKET, BY COUNTRY, 2019–2022 (USD BILLION)

TABLE 95 ASIA PACIFIC: DISTRICT HEATING MARKET, BY COUNTRY, 2023–2028 (USD BILLION)

TABLE 96 ASIA PACIFIC: DISTRICT HEATING MARKET, BY HEAT SOURCE, 2019–2022 (USD BILLION)

TABLE 97 ASIA PACIFIC: DISTRICT HEATING MARKET, BY HEAT SOURCE, 2023–2028 (USD BILLION)

TABLE 98 ASIA PACIFIC: DISTRICT HEATING MARKET, BY PLANT TYPE,

2019–2022 (USD BILLION)

TABLE 99 ASIA PACIFIC: DISTRICT HEATING MARKET, BY PLANT TYPE,
2023–2028 (USD BILLION)

TABLE 100 ASIA PACIFIC: DISTRICT HEATING MARKET, BY APPLICATION,
2019–2022 (USD BILLION)

TABLE 101 ASIA PACIFIC: DISTRICT HEATING MARKET, BY APPLICATION,
2023–2028 (USD BILLION)

10.4.1 CHINA

10.4.1.1 Implementation of new energy-efficient projects to boost demand

TABLE 102 CHINA: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022
(USD BILLION)

TABLE 103 CHINA: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028
(USD BILLION)

10.4.2 JAPAN

10.4.2.1 Adoption of Heat Roadmap Europe 2050 Project to accelerate demand

TABLE 104 JAPAN: DISTRICT HEATING MARKET, BY APPLICATION, 2019–2022
(USD BILLION)

TABLE 105 JAPAN: DISTRICT HEATING MARKET, BY APPLICATION, 2023–2028
(USD BILLION)

10.4.3 SOUTH KOREA

10.4.3.1 Development and implementation of third-generation district heating systems
to drive demand

TABLE 106 SOUTH KOREA: DISTRICT HEATING MARKET, BY APPLICATION,
2019–2022 (USD BILLION)

TABLE 107 SOUTH KOREA: DISTRICT HEATING MARKET, BY APPLICATION,
2023–2028 (USD BILLION)

10.4.4 REST OF ASIA PACIFIC

TABLE 108 REST OF ASIA PACIFIC: DISTRICT HEATING MARKET, BY
APPLICATION, 2019–2022 (USD BILLION)

TABLE 109 REST OF ASIA PACIFIC: DISTRICT HEATING MARKET, BY
APPLICATION, 2023–2028 (USD BILLION)

10.4.5 ASIA PACIFIC: RECESSION IMPACT

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 KEY PLAYER STRATEGIES ADOPTED BY MAJOR PLAYERS

TABLE 110 DISTRICT HEATING MARKET: OVERVIEW OF STRATEGIES ADOPTED
BY KEY PLAYERS

11.2.1 PRODUCT/SERVICE PORTFOLIO

11.2.2 REGIONAL FOCUS

11.2.3 ORGANIC/INORGANIC GROWTH STRATEGIES

11.3 MARKET SHARE ANALYSIS, 2022

FIGURE 40 MARKET SHARE ANALYSIS OF KEY PLAYERS, 2022

TABLE 111 DISTRICT HEATING MARKET SHARE ANALYSIS, 2022

11.4 REVENUE ANALYSIS, 2018–2022

FIGURE 41 REVENUE ANALYSIS OF KEY PLAYERS, 2018–2022

11.5 COMPANY EVALUATION MATRIX, 2022

11.5.1 STARS

11.5.2 EMERGING LEADERS

11.5.3 PERVASIVE PLAYERS

11.5.4 PARTICIPANTS

FIGURE 42 DISTRICT HEATING MARKET: COMPANY EVALUATION MATRIX, 2022

11.5.5 COMPANY FOOTPRINT

TABLE 112 COMPANY FOOTPRINT, BY APPLICATION

TABLE 113 COMPANY FOOTPRINT, BY REGION

TABLE 114 OVERALL COMPANY FOOTPRINT

11.6 START-UPS/SMALL AND MEDIUM-SIZED ENTERPRISES (SMES)

EVALUATION MATRIX, 2022

TABLE 115 DISTRICT HEATING MARKET: LIST OF KEY START-UPS/SMES

11.6.1 PROGRESSIVE COMPANIES

11.6.2 RESPONSIVE COMPANIES

11.6.3 DYNAMIC COMPANIES

11.6.4 STARTING BLOCKS

FIGURE 43 DISTRICT HEATING MARKET: START-UPS/SMES EVALUATION MATRIX, 2022

11.6.5 COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

TABLE 116 START-UPS/SMES FOOTPRINT, BY APPLICATION

TABLE 117 START-UPS/SMES FOOTPRINT, BY REGION

11.7 COMPETITIVE SCENARIOS AND TRENDS

11.7.1 PRODUCT/SERVICE LAUNCHES

TABLE 118 DISTRICT HEATING MARKET: PRODUCT/SERVICE LAUNCHES, 2020–2023

11.7.2 DEALS

TABLE 119 DISTRICT HEATING MARKET: DEALS, 2020–2023

12 COMPANY PROFILES

(Business overview, Products/Solutions/Services offered, Recent developments & MnM View)*

12.1 KEY PLAYERS

12.1.1 FORTUM

TABLE 120 FORTUM: COMPANY OVERVIEW

FIGURE 44 FORTUM: COMPANY SNAPSHOT

TABLE 121 FORTUM: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 122 FORTUM: PRODUCT/SERVICE LAUNCHES

TABLE 123 FORTUM: DEALS

12.1.2 VATTENFALL

TABLE 124 VATTENFALL: COMPANY OVERVIEW

FIGURE 45 VATTENFALL: COMPANY SNAPSHOT

TABLE 125 VATTENFALL: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 126 VATTENFALL: PRODUCT/SERVICE LAUNCHES

TABLE 127 VATTENFALL: DEALS

TABLE 128 VATTENFALL: OTHERS

12.1.3 ENGIE

TABLE 129 ENGIE: COMPANY OVERVIEW

FIGURE 46 ENGIE: COMPANY SNAPSHOT

TABLE 130 ENGIE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 131 ENGIE: DEALS

12.1.4 DANFOSS

TABLE 132 DANFOSS: COMPANY OVERVIEW

FIGURE 47 DANFOSS: COMPANY SNAPSHOT

TABLE 133 DANFOSS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 134 DANFOSS: PRODUCT/SERVICE LAUNCHES

12.1.5 STATKRAFT

TABLE 135 STATKRAFT: COMPANY OVERVIEW

FIGURE 48 STATKRAFT: COMPANY SNAPSHOT

TABLE 136 STATKRAFT: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 137 STATKRAFT: DEALS

12.1.6 LOGSTOR DENMARK HOLDING APS

TABLE 138 LOGSTOR DENMARK HOLDING APS: COMPANY OVERVIEW

TABLE 139 LOGSTOR DENMARK HOLDING APS:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 140 LOGSTOR DENMARK HOLDING APS: DEALS

12.1.7 VITAL ENERGI

TABLE 141 VITAL ENERGI: COMPANY OVERVIEW

FIGURE 49 VITAL ENERGI: COMPANY SNAPSHOT

TABLE 142 VITAL ENERGI: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 143 VITAL ENERGI: OTHERS

12.1.8 KELAG ENERGIE & W?RME

TABLE 144 KELAG ENERGIE & W?RME: COMPANY OVERVIEW

TABLE 145 KELAG ENERGIE & W?RME: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 146 KELAG ENERGIE & W?RME: DEALS

12.1.9 SHINRYO CORPORATION

TABLE 147 SHINRYO CORPORATION: COMPANY OVERVIEW

TABLE 148 SHINRYO CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.10 VEOLIA

TABLE 149 VEOLIA: COMPANY OVERVIEW

FIGURE 50 VEOLIA: COMPANY SNAPSHOT

TABLE 150 VEOLIA: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 151 VEOLIA: DEALS

12.1.11 GENERAL ELECTRIC

TABLE 152 GENERAL ELECTRIC: COMPANY OVERVIEW

FIGURE 51 GENERAL ELECTRIC: COMPANY SNAPSHOT

TABLE 153 GENERAL ELECTRIC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 154 GENERAL ELECTRIC: DEALS

TABLE 155 GENERAL ELECTRIC: OTHERS

12.1.12 UNIPER SE

TABLE 156 UNIPER SE: COMPANY OVERVIEW

FIGURE 52 UNIPER SE: COMPANY SNAPSHOT

TABLE 157 UNIPER SE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 158 UNIPER SE: DEALS

*Details on Business overview, Products/Solutions/Services offered, Recent developments & MnM View might not be captured in case of unlisted companies.

12.2 OTHER PLAYERS

12.2.1 G?TEBORG ENERGI

12.2.2 FVB ENERGY INC.

12.2.3 ALFA LAVAL

12.2.4 RAMBOLL

12.2.5 SAVON VOIMA

12.2.6 ENWAVE ENERGY CORPORATION

12.2.7 ?RSTED A/S

12.2.8 HELEN LTD

12.2.9 KEPPEL CORPORATION LIMITED

- 12.2.10 STEAG GMBH
- 12.2.11 HAFSLUND AS
- 12.2.12 CLEARWAY ENERGY GROUP LLC
- 12.2.13 DALL ENERGY

13 APPENDIX

- 13.1 DISCUSSION GUIDE
- 13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 13.3 CUSTOMIZATION OPTIONS
- 13.4 RELATED REPORTS
- 13.5 AUTHOR DETAILS

I would like to order

Product name: District Heating Market by Heat Source (Coal, Natural Gas, Geothermal, Biomass & Biofuel, Solar, Oil & Petroleum Products), Component (Boiler, Heat Exchanger, Heat Pumps), Plant Type (CHP, Boiler), Application and Region - Global Forecast to 2028

Product link: <https://marketpublishers.com/r/FD3503F50C0EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/FD3503F50C0EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970