

# **District Heating and Cooling Market By Heat Source (Coal, Natural Gas, Renewables, Oil and Petroleum Products, Others), By Application (Residential, Commercial, Industrial) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

<https://marketpublishers.com/r/D6AB36DF3C60EN.html>

Date: June 2024

Pages: 350

Price: US\$ 2,601.00 (Single User License)

ID: D6AB36DF3C60EN

## **Abstracts**

The global district heating and cooling market was valued at \$191.5 billion in 2023, and is projected to reach \$251.3 billion by 2033, growing at a CAGR of 2.7% from 2024 to 2033.

District heating and cooling (DHC) is a centralized energy distribution system that provides heating and/or cooling to multiple buildings or facilities within a defined geographic area, typically an urban or suburban district. In a district heating system, heat is generated centrally at a central plant, often through the combustion of fossil fuels, biomass, or by harnessing renewable energy sources such as geothermal energy or waste heat from industrial processes. This system enables the utilization of waste heat from various sources, improving overall energy efficiency and reducing greenhouse gas emissions.

The growth of the district heating and cooling market is driven due to its quality of offering a more environmentally friendly alternative to conventional heating and cooling methods. They utilize waste heat from various sources such as industrial processes, power generation, and renewable energy systems, reducing greenhouse gas emissions and overall energy consumption. Moreover, rapid urbanization witnessed across the globe has led to increased energy demand in densely populated areas. For instance, according to a report published by the International Energy Agency in 2023, the global electricity demand rose by 2.3% in 2023. District heating and cooling systems are particularly well-suited for urban environments, where the concentration of

buildings enables cost-effective implementation and efficient heat exchange, thus driving the market growth.

However, high upfront investment required for infrastructure development hinders the growth of the market. Building the necessary networks of pipes, pumps, and heat exchange facilities is costly, especially in densely populated urban areas with existing infrastructure. On the other hand, the district heating and cooling market offers several opportunities for stakeholders to innovate, collaborate, and drive sustainable growth. For instance, in January 2024, Danfoss acquired Enfor's district heating and cooling technology, now sold under the name Danfoss Leanheat. This strategic acquisition is expected to enhance the footprint of Danfoss for district heating and cooling business.

## Segmentation Overview

The district heating and cooling market is segmented into heat source, application, and region. By heat source, the market is divided into coal, natural gas, renewables, oil & petroleum products, and others. As per application, it is categorized into residential, commercial, and industrial. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

By heat source, the coal segment is expected to dominate the market by 2033.

Depending on the application, the commercial segment is anticipated to witness substantial growth during the forecast period.

Region wise, Europe is predicted to maintain its dominance during the projection period.

## Competitive Scenario

The major players operating in the district heating and cooling market include Fortum, Vattenfall, ENGIE, Danfoss, Statkraft, Ramboll, General Electric, Uniper, FVB Energy Inc., and Helen. Other players in the district heating and cooling market include Dall Energy, Logstor A/S, Emirates District Cooling LLC, ADC Energy Systems LLC, KELAG Warme GmbH, Tekla Corporation, and Vitai Energi. These players have adopted several strategies, including mergers & acquisitions, partnerships, collaborations, and

product development & innovation to maintain their position in the market.

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Consumer Buying Behavior Analysis

Investment Opportunities

Upcoming/New Entrant by Regions

Technology Trend Analysis

Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Strategic Recommendations

Additional company profiles with specific t%li%client's interest

Additional country or region analysis- market size and forecast

Brands Share Analysis

Criss-cross segment analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Import Export Analysis/Data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

SWOT Analysis

Key Market Segments

By Heat Source

Coal

Natural Gas

Renewables

Oil and Petroleum Products

Others

#### By Application

Residential

Commercial

Industrial

#### By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Fortum Oyj

Vattenfall

ENGIE

Danfoss

Statkraft,

Ramboll

General Electric

Uniper

FVB Energy Inc.

Helen

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