

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

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Report description:

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.□

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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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- Additional company profiles with specific to 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

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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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