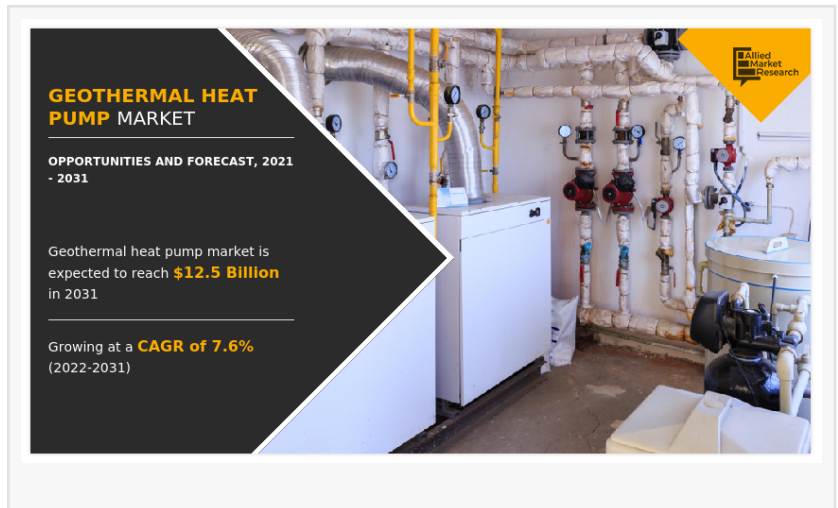


Geothermal Heat Pump Market Trends: Harnessing the Earth's Energy

Geothermal Heat Pump Market to Breach \$12.5 billion by 2031

WILMINGTON, DE, UNITED STATES,
March 6, 2025 /EINPresswire.com/ --

According to a new report published by Allied Market Research, the [geothermal heat pump market](#) size was valued at \$6.0 billion in 2021, and geothermal heat pump industry is estimated to reach \$12.5 billion by 2031, growing at a CAGR of 7.6% from 2022 to 2031.



A geothermal heat pump (GHP) is a renewable energy system that utilizes the stable temperature of the earth to provide heating, cooling, and hot water for residential and commercial buildings. By leveraging the relatively constant temperatures found underground, geothermal heat pumps are an efficient and environmentally friendly alternative to traditional heating and cooling systems.

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High adoption in the residential sector and contribution of heat pump technology in reducing CO2 emission are the key factors boosting the Geothermal heat pump market growth.”
Allied Market Research

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Asia-Pacific would exhibit CAGR of 8.5% during 2022-2031.

Japan contributes around 5.4% of total geothermal heat pump market share and would exhibit CAGR of 7.6% during 2022-2031.

South Korea contributes around 1.9% of total market share and would exhibit CAGR of 9.1% during 2022-2031.

Europe was the leading segment in 2021, with a CAGR of 6.4% during 2022-2031.

Major players operating in the global [geothermal heat pump industry report](#) include, Bosch Terotechnology Ltd, Bostech Mechanical Ltd., Carrier global Corporation, ClimateMaster Inc., Daikin Industries, Ltd., Danfoss Technologies, Dandelion Energy, De Dietrich Process Systems, Ecoforest S.A, Energy Smart Alternatives, GeoComfort Geothermal systems, GeoSmart Energy Inc., Maritime Geothermal Ltd., Mitsubishi Electric Corporation, Pfister's Energy, Viessmann, and Wolf GmbH.

The global geothermal heat pump market trends are being driven by rising concerns among policy makers regarding energy security, environmental sustainability, and the trend toward development and national well-being based on the bio economy.

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In addition, geothermal heat pumps reduce energy usage and aid in reducing greenhouse gas (GHG) emissions, which benefits the market even more.

In addition, a geothermal water pump has lower long-term costs than a conventional water heater system.

The surge in the urban population led to the demand for the residential and commercial building which is expected to expand the demand for geothermal heat pump market during the forecast period.

A major obstacle to the widespread adoption of this technology in the world's major developing nations is the high installation cost of geothermal heat pump systems as well as the lack of public understanding or confidence in the benefits of geothermal heat pump systems.

Lack of technological advancement and technique toward the cost and performance benefits of geothermal heat pump is limiting the [geothermal heat pump market growth](#).

Depending on technology, the market is categorized into open loop systems and closed loop systems (vertical loops and horizontal loops).

The closed loop systems segment accounted more than 80% of market share in 2021.

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On the basis of end-use, the market is categorized into residential (new building systems and retrofit systems), commercial, and industrial.

Residential segment is expected to possess a market share of 75.1% in 2031.

Geothermal heat pumps may be utilized alone or in conjunction with other hybrid systems, such as solar geothermal heat pumps. The hybrid setups have advantages in terms of cost and high performance.

The earth's mild temperatures are used by geothermal heat pumps as cooling and heating sources. Instead of always coming from the center of the earth's crust, the geothermal heat pump's primary source of heat is the sun.

Some of the other popular name of geothermal heat pump in various part of the world includes geoexchange, earth energy systems and earth-coupled heat pumps.

IMPACT OF COVID-19 ON GEOTHERMAL HEAT PUMP MARKET

The outbreak of COVID-19 in China and its spread across numerous countries globally, halted the manufacturing activities of industrial sectors, which correspondingly hampered geothermal heat pump manufacturing as well. The raw material procurement was also challenged owing to the outbreak of COVID-19.

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Governments in several nations have taken steps to restart the economy and achieve the net zero carbon emission goal in the upcoming years in order to cope with the slowing business growth caused by the COVID-19 epidemic. For example, as per the news published in Electrical Times, an online news publishing platform, in 2020, the UK government issued a 10-point plan in 2020, to meet its net-zero carbon objective by 2050. The government has planned to install nearly 600,000 heat pumps by the end of 2028, along with investment in renewable energy and other low-carbon technology.

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