

Geothermal Energy

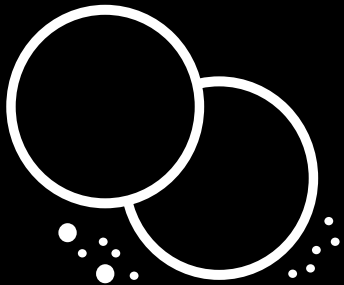
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Table Of Contents

- ❑ Origins of Geothermal Energy
- ❑ How to obtain the resource
- ❑ How to convert the resource into a useable form of energy
- ❑ Pros and cons of Geothermal energy
- ❑ How Geothermal energy is used in Canada
- ❑ What role this energy source could have in the future
- ❑ Sources

Origins of Geothermal Energy

Geothermal energy was originally used in Italy at the time of 1904. It was a consistent, enlarging source of energy in modern years. Geothermal energy has developed from 10GW worldwide in 2010 to around 13GW in 2018 as stated by the International Renewable Energy Agency.



How to Obtain Geothermal Energy

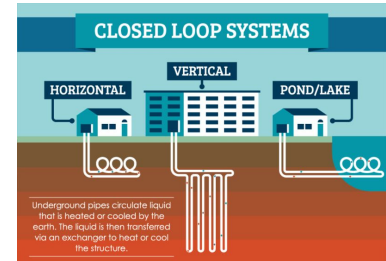
Geothermal energy comes from volcanoes, hot springs, and geysers. When magma rises up near to the surface of the earth, it heats up trapped water in between rocks. Then wells are dug for those waters and heat pumps are used to convert it into geothermal energy.



Converting Geothermal Energy to a Usable Source

Heat pumps that produce and store Geothermal energy are used for transferring heat from under the ground or from water up to buildings and homes.

Some of that energy are used to power turbines that generate electricity which could also be pretty useful.





Pros and Cons of Using Geothermal Energy

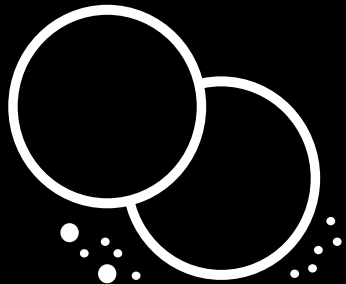
Benefits

- Generally environmentally friendly
- Renewable and sustainable
- Great for heating and cooling
- low impact

Drawbacks

- Location-specific
- Some minor environmental issues
- Sustainability relies on reservoirs being properly managed
- Can cause earthquakes in extreme cases
- High initial costs

How Geothermal Energy is used in Canada



- Heating and cooling homes
- In-floor heating
- Industrial use such as gold mining
- Providing electricity





THANK YOU

For Listening



sources

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