



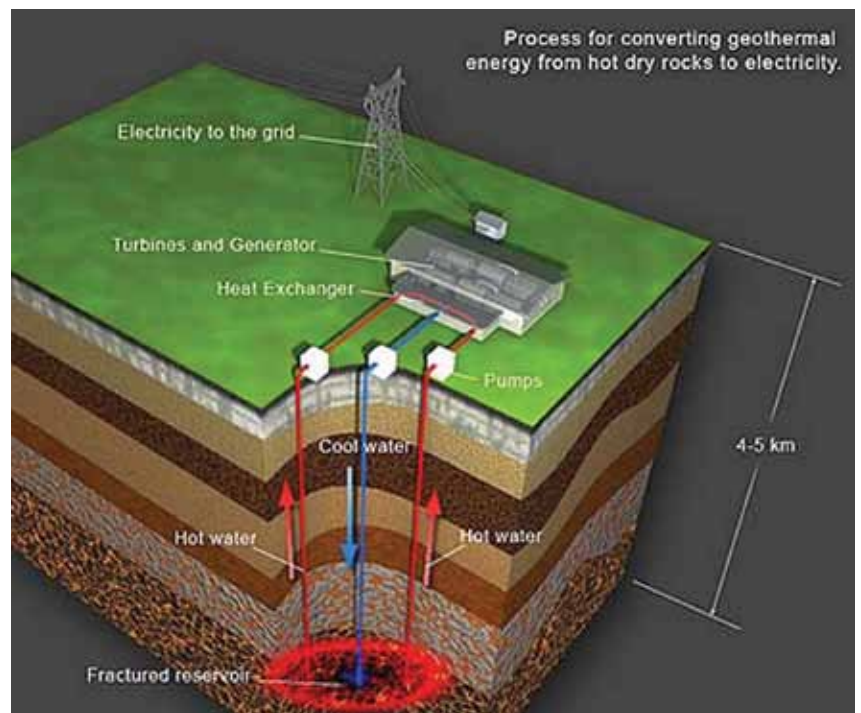
# GEOHERMAL ENERGY RESOURCES

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Geothermal energy is a largely untapped resource in Canada. It is used most commonly in combination with heat pumps to provide space heating, but where temperatures below ground are highest, geothermal energy can also provide reliable and clean electricity. Holes can be drilled kilometres deep to access temperatures greater than 150°C in order to produce steam for electricity generation.

## Key Facts

- Over 1,500 oil and gas wells have been drilled in the Northwest Territories (NWT), and some of them had reservoir temperatures of greater than 150°C. This is sufficient for both district heating and electricity generation.
- A geothermal project is being developed in Fort Liard to provide 100% of the community's electricity and thus offset 730,000 litres of imported diesel annually. The Federal Government has committed up to \$8 million to support the project.
- There is geothermal potential in other communities in the NWT, including Fort Providence, Fort Simpson, and Hay River.



## Geothermal Favourability Map

The Geothermal Favourability Map on the next page shows several areas of medium to high geothermal potential in the Mackenzie River basin extending from the Alberta and British Columbia border in the south to the Mackenzie Delta in the north. The Canadian Shield and the Arctic Islands have a low or low-medium geothermal potential. The Liard River and Southern Mackenzie River Basin include the highest geothermal gradients measured in the NWT.

# Energy Facts

