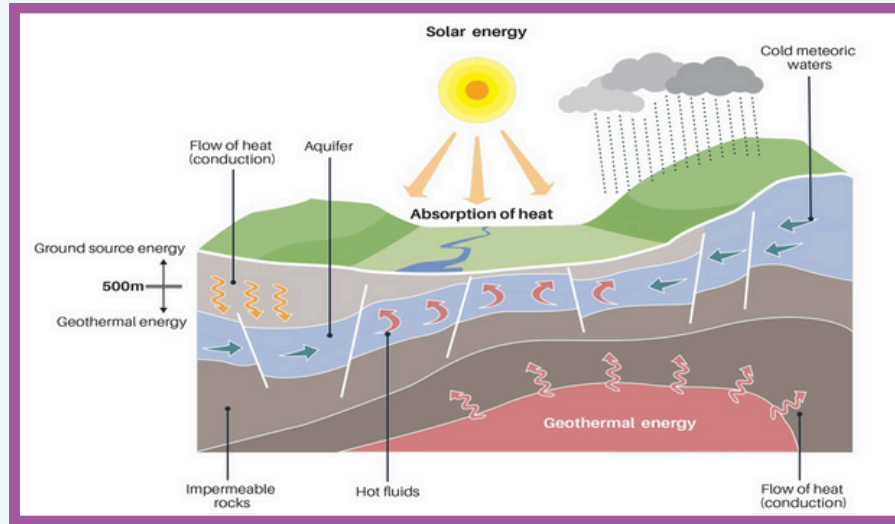


GEOCAT

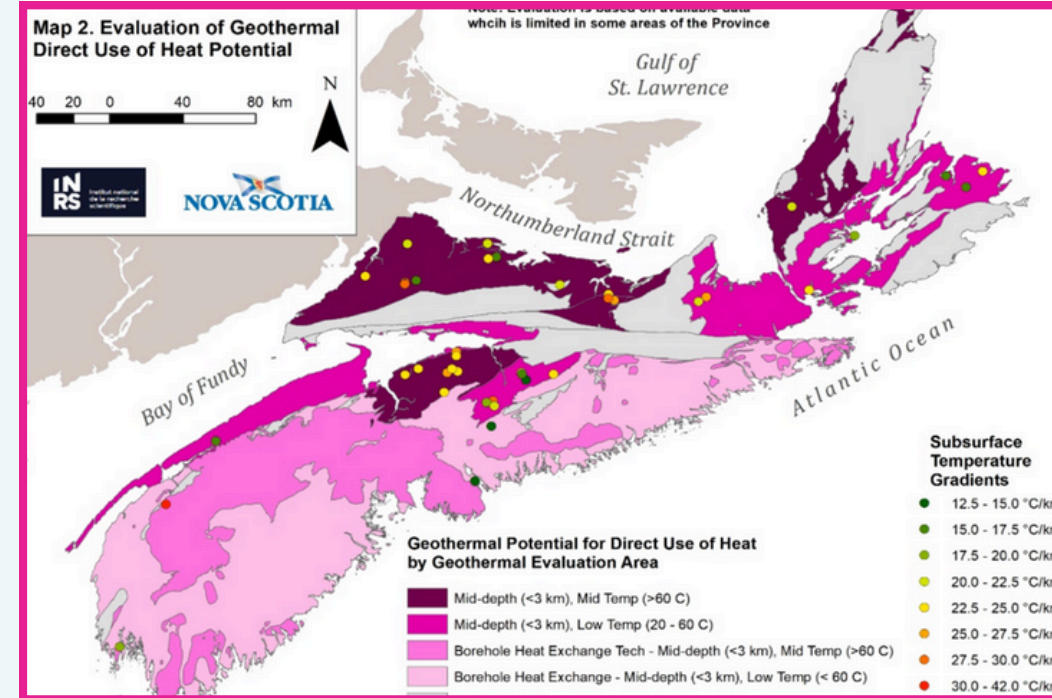
Geothermal Resource Capacity Building Assessment & Training Program



Geothermal energy is more environmentally friendly than conventional fuel sources such as coal and other fossil fuels. In addition, the carbon footprint of a geothermal power plant is low.

Geothermal heat is generated by the radioactive decay of elements in the upper crust (83%), as well as primordial heat from the formation of the planet (17%). Temperature increases with depth.

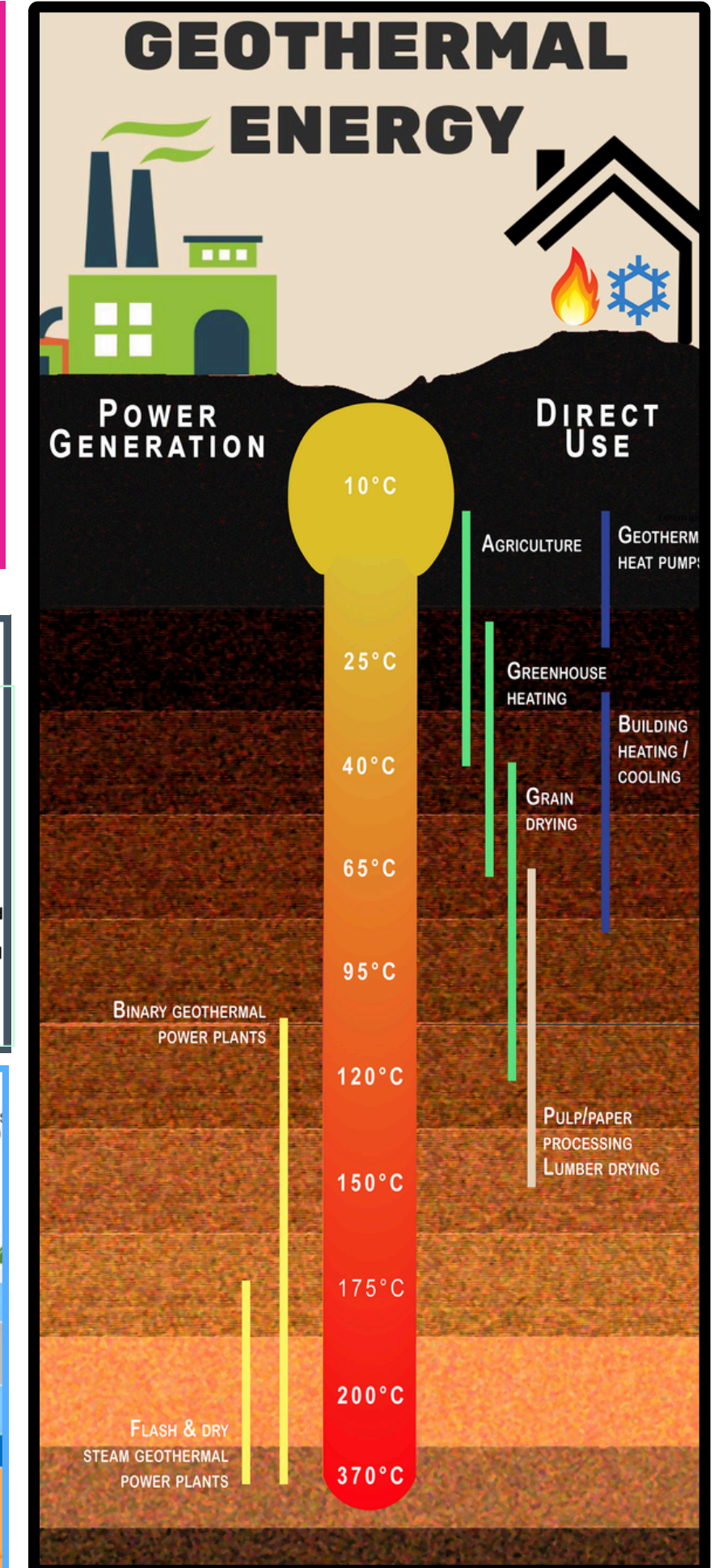
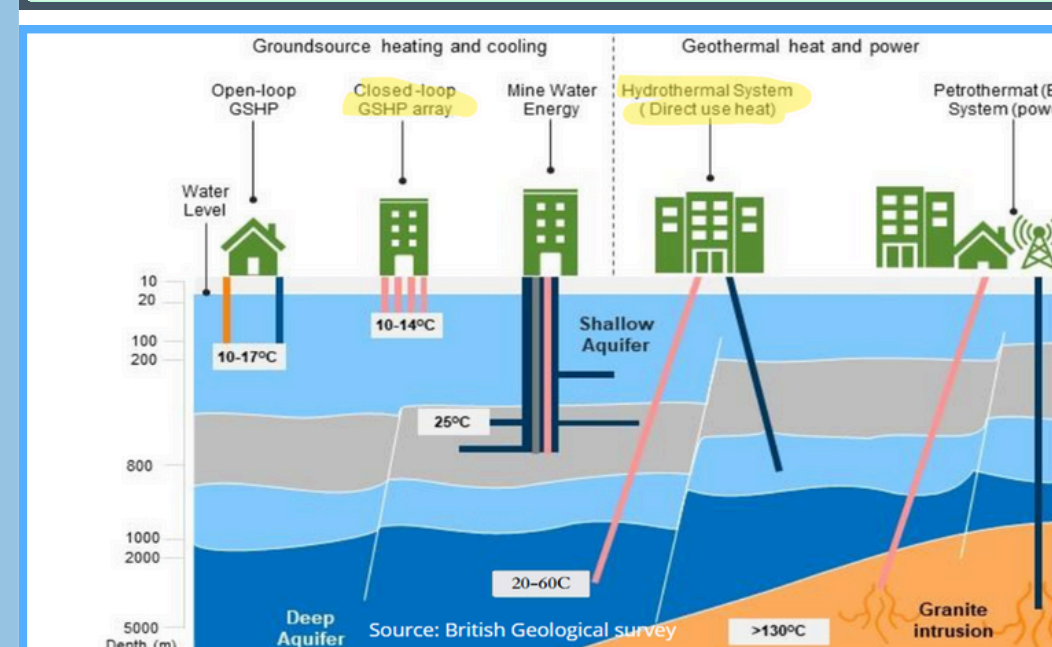
Geothermal setups have high initial costs, influenced by well depths and location. Success depends on aquifer productivity, temperature, and consistent year-round demand.



Map of Geothermal potential in Onshore Nova Scotia (DNR)

Geothermal Energy - the Solution.

- Lowest land use footprint per MW of all renewable energy.**
- Baseload (24/7) capabilities and available on demand (dispatchable) and lasts more than 40 years.**
- Most prevalent baseload renewable resource (heat & electricity) in many jurisdictions and excellent Environmental, Social, Governance (ESG) values.**
- Most effective renewable for Green House Gas (GHG) reductions & lowest environmental footprint of all renewables.**
- More reliable and independent of weather factors with mature technology, it's operational and maintenance costs are low**
- In areas with existing hydrocarbon industry, geothermal utilizes oil and gas assets, expertise and data.**



Existing Geothermal projects in Cape Breton

Energy Demand

Firms serving communities require energy and supply it to those who lacking access. Geothermal techniques help recover energy & promote growth.

- Emera Centre
- Verschuren Centre
- Bay plex Recreation Centre
- Membertou Sports & Wellness Centre
- Canadian Coast Guard college
- Centre of Discovery & Innovation

