

## Geothermal 101: Bring the Heat Canada!

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Geothermal means “Earth Heat”. Briny fluids located kilometers below the Earth’s surface are stored in aquifers or reservoirs the same way hydrocarbons are. When we bring these hot fluids to the surface, we produce renewable geothermal heat that can be used directly to heat buildings, grow food in greenhouses, farm fish, and dry lumber for pulp and paper, just to name a few. At higher temperatures, this heat can be used to generate renewable power. Canada has tremendous geothermal resources, everywhere from the mountainous regions of BC to the sedimentary basins we develop for oil and gas in the prairies. Canada sits directly north of the number one producer of geothermal power in the world — the United States.

Developing geothermal resources requires the drilling and completing of wells, reservoir characterization, and geological/geophysical mapping. This means that geothermal is already a core competency in Alberta, and is a resource that can be developed alongside oil and gas — although few know it. CanGEA, the Canadian Geothermal Energy Association, is on a mission to change that. We want to put end-users, corporations and all Canadians in touch with their thermal resources and facilitate the development of this world-class resource for both economic and environmental benefit. In Alberta we can do this by using the same technologies and processes that have been used for decades in oil and gas. It’s a win-win-win, for Canadians, for the economy, and for the environment.