

Technology Demonstration

Affordable Clean Technology Provides Energy to Housing Subdivisions

Ener-West GeoEnergy Services Inc.



Ener-West residential geothermal system installation

HIGHLIGHTS

More than 200 successful Geothermal Projects

Introducing lower-cost gas powered heat pump and pipe installation technology to Canada

Making Geothermal an accessible clean technology solution for Canadians

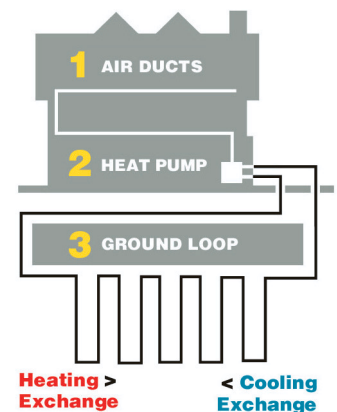
Capital cost has always been a barrier for geothermal energy, but Ener-West GeoEnergy Service Inc. is unleashing new pipe installation and heat pump technologies to make this green innovation a more affordable option for consumers.

Ener-West was founded to address the growing interest in geothermal heating and cooling. With offices in Calgary and Kelowna, the company provides geothermal system design and installation across Western Canada. To date, the company has successfully installed more than 200 geothermal heating and cooling systems.

Ener-West recently completed a 93-unit housing subdivision project with the Wood Buffalo Housing Development Corporation in Fort McMurray. This project was an important milestone for Ener-West, proving the company's ability to support subdivision scale projects while demonstrating that geothermal systems can economically meet the heating and cooling requirements of large housing developments.

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With financial support from the Unleashing Innovation Program provided through CETAC-WEST by Alberta Finance and Enterprise and Alberta Advanced Education and Technology, Ener-West has initiated two demonstration projects. In Calgary, Ener-West is working with ATCO Gas and AVALON Home Builders to directly compare two side-by-side homes in McKenzie Towne: one with a conventional high energy efficient furnace and air conditioner, the other with a geothermal system. In Edmonton, Ener-West, in partnership with Geothermal Utilities, has retrofitted a home to provide energy-use data for comparison with information collected when the home used conventional heating and cooling.



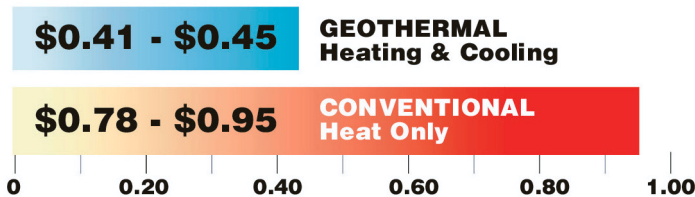
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This new technology could potentially cut geothermal operating costs by an additional 40 per cent over electric heat pump systems

Both demonstration projects will showcase the merits of a new natural gas-powered heat pump technology: the Robur gas-absorption heat pump. Though geothermal homes already see operating savings of \$500 to \$1,500 a year, this new technology could potentially cut geothermal operating costs by an additional 40 per cent over electric heat pump systems, making geothermal energy an even more affordable option for Albertans.

HEATING COST

(Dollars per square foot per year)



The promise of a gas-powered heat pump attracted ATCO Gas as a partner in the technology demonstration. ATCO Gas considers geothermal an important sustainable addition to the energy it supplies to its customers. Ener-West, AVALON Home Builders, and ATCO Gas are now planning a subdivision-wide installation in McKenzie Towne that will see 40 to 52 homes heated and cooled through geothermal energy.

Ener-West is also focusing on reducing geothermal installation costs by working with a partner that has developed lower-cost pipe installation technologies, decreasing installation costs by as much as 40%. The company's goal is to make geothermal an accessible clean technology solution for the average consumer.

CETAC-WEST Support

With CETAC-WEST's support through mentoring and strategic guidance, Ener-West grew from a company that mainly performed individual residential installations to one that has successfully undertaken subdivision-sized projects.



Ener-West's founder Dale Bateman has attended CETAC-WEST's Entrepreneur to CEO workshops since 2000 and says organizations like CETAC-WEST's are critical

because they help entrepreneurs grow their companies to the point where they can sustainably support innovation and expand Alberta's economic advantage.



CETAC-WEST

Unleashing Technology Innovation