



"Accelerate Canadian exploration and development of geothermal resources in order to provide secure, clean, and sustainable energy."

Empowering Canadian Geothermal

September 24, 2014

For Immediate Release

CANGEA RELEASES "DIRECT UTILIZATION OF GEOTHERMAL ENERGY: SUITABLE APPLICATIONS AND OPPORTUNITIES FOR CANADA"

Press Release: Calgary, AB - September 24, 2014 - The Canadian Geothermal Energy Association (CanGEA) is pleased to announce the release of its report "Direct Utilization of Geothermal Energy: Suitable Applications and Opportunities for Canada." This report is based on the direct use, or non-electric, applications of geothermal heat.

The CanGEA project team consisted of project leader Faisal Bakhteyar, subject matter experts [Dr. John W. Lund](#) and Dr. Alan Jessop, and CanGEA Chair [Alison Thompson](#). The project was supported by contributions from International Energy Agency-Geothermal Implementing Agreement (IEA-GIA), Common Funds and National Research Council's Industrial Research Assistance Program (NRC IRAP).

Direct-use geothermal has achieved consistent growth globally in the last decade, primarily through the increase in geothermal heat pump installations and geothermal direct-use for bathing and swimming. However, for many countries with direct-use potential – Canada included – there is a general absence of technical and economic data surrounding subsurface geothermal conditions and suitable utilization of direct-use applications, especially for regions further away from surface manifestations such as hot springs.

The report includes a variety of commonly employed Direct Use Applications, such as the use of geothermal heat for greenhouses, fish farms, crop and pulp & paper drying, district heating systems, and many more. The purpose of this project was to assist a diverse target audience navigate the knowledge gap that currently exists regarding the non-electric utilization of geothermal energy, and identify opportunities for project development in Canada.

The direct use applications of geothermal energy can create unique business opportunities that contribute to sustainable communities in Canada and produce new jobs. Projects would have the potential to diversify the economies of numerous Canadian cities and towns. "Direct use projects can also reduce costs incurred to existing businesses. For example, farmed salmon is a major export for both British Columbia and New Brunswick; geothermal heat would reduce heating costs and boost productivity. This could be especially beneficial in Northern and remote communities that rely heavily on expensive imported fossil fuels," said Alexa MacDonald, Direct Use Coordinator, CanGEA.

The 200+ page report is sectioned into four parts that offer inspiration and instruction on designing and implementing various direct use projects. Part I provides an overview of possible direct use applications; Part II outlines project development and design guidelines; Part III displays geothermal resources in Canada; and Part IV discusses direct use applications and

opportunities in a Canadian context.

The release of this report coincides with CanGEO's [Direct Use Trade Mission](#) to Klamath Falls, Oregon. It is hoped that these initiatives will motivate Canadians to implement direct use projects and provide them with the information they need to get them off the ground. Ultimately it is our goal to establish a strong and diverse geothermal industry in Canada.

Click [here](#) for access to CanGEO's Direct Use Report!

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About CanGEO

CanGEO is the collective voice of Canada's geothermal energy industry. As a non-profit industry association CanGEO represents the interests of our member companies with the primary goal of unlocking the country's tremendous geothermal energy potential. Geothermal energy can provide competitively priced, renewable, round-the-clock energy to the Canadian and U.S. markets. Visit us at www.cangea.ca.

As a sign of support for CanGEO's efforts please consider [becoming a member](#), or making a donation to our [Policy Action Fund](#) so that CanGEO can continue its tradition of high-quality advocating on behalf of the geothermal industry.