

Geoexchange System Installation Application

City of Edmonton - Renewable Energy Systems

Project Site Information (Provide at least one of the following) - Please note: it cannot be an intersection

Project Address (municipal):			
Legal Description:	Plan:	Block:	Lot:

Applicant information

Applicant / Contact Name:	City Customer ID#:
<p>As the applicant I affirm:</p> <p><input type="checkbox"/> I am the registered owner of the above noted property.</p> <p><input type="checkbox"/> I have entered into a binding agreement to purchase the above noted property with the registered owner(s).</p> <p><input type="checkbox"/> I have permission of the registered owner(s) of the noted property to apply for the Development Permit and Building Permit(s).</p>	
Business Name (if applicable):	
Mailing Address:	City:
Province:	Postal Code:
Phone Number:	
Email:	
Signature:	Date:

See Page 2 for Application Requirements and General Information.

Personal information is collected for the purpose of administration and delivery of services related to Safety Codes and Development under applicable legislation and City Bylaws. Collection is authorized under 4(c) of the Protection of Privacy Act (POPA) and is managed and protected in accordance with the Act. The City intends to input the information into an automated system to generate content or make decisions, recommendations or predictions in accordance with the City of Edmonton Generative AI Standard. For questions about the collection, please contact Service Advisor, 780-442-5054, or eservices@edmonton.ca.

Application Requirements:

For Part 9 compliance, the following information must be submitted:

- Site plan, showing GeoExchange system layout along with existing & proposed underground services
- Bore field design, including # bores, bore depth, bore spacing, piping type, fluid type, & grout type
- Copy of Installer's Canadian GeoExchange Coalition (CGC) or International Ground Source Heat Pump Association (IGSHPA) accreditation certificate
- Bore field design heating & cooling capacity (Peak hour & annual rejected/extracted energy)
- Design must be compliant with CSA/ANSI/IGSHPA C448.1, and must be reviewed & sealed by an APEGA-licensed-engineer

For Part 6 compliance, the following information must be submitted:

- Site plan, showing GeoExchange bore field, along with existing & proposed underground services
- Bore field design, including # bores, bore depth, bore spacing, piping type, fluid type, & grout type
- Ground Thermal Conductivity test report (as per CSA/ANSI/IGSHPA C448.2)
- Copy of Installer's Canadian GeoExchange Coalition (CGC) or International Ground Source Heat Pump Association (IGSHPA) accreditation certificate
- Design must be compliant with CSA/ANSI/IGSHPA C448. The system must be designed & sealed by an APEGA-licensed-engineer.
- Commissioning of district energy systems (as per CSA/ANSI/IGSHPA C448.3)
- Supply NBC(AE) Schedules A-2, B-1, & B-2.

General Information:

A GeoExchange system itself does not require a development permit if it meets the exemptions of Section 7.120 of the Zoning Bylaw. An applicant is, however, obligated to conform with all other legislation, for example, the Municipal Government Act, bylaws, such as Safety Codes Permit Bylaw, land title instruments, such as caveats, covenants, or easements attached to the site, and any requirements for projects within the River Valley and Ravine System Section 2.260 for the River Valley Overlay as well as Section 7.140 for Special Information Requirements.

This application form provides the City of Edmonton with sufficient information about the proposed GeoExchange system to ensure building code and industry best practice compliance of any buildings it may connect to.

FEES

No fees apply for this application.

HOW IS THIS APPLICATION ASSOCIATED WITH OTHER PERMITS?

This form needs to be attached to any building mechanical permit applications which will connect to this system. If no building is to be connected at this time, this form should be submitted for reference on future permit applications.

HOW MUST THIS APPLICATION BE SUBMITTED?

Email: hvactechdesk@edmonton.ca

Mail: % HVAC Tech Desk, 2nd floor, Edmonton Tower, 10111-104 Avenue NW, Edmonton, Alberta, T5J 0J4

In-person: book an [appointment](#)