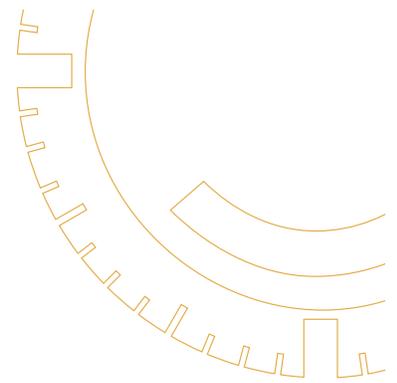


CLOCKWORK AT UPPER JOSHUA CREEK IN OAKVILLE

GEOHERMAL FREQUENTLY ASKED QUESTIONS



How much will I be reducing my home's carbon emissions?

ClockWork's geothermal heating and cooling system will improve your home's direct carbon emissions by about 87%*.

How much more efficient is geothermal technology than natural gas and what benefit does this bring to my home?

With geothermal technology, you can expect your energy consumption to drop by 39%*, by drawing from the Earth's consistent temperature below the surface and right outside your door.

Does geothermal technology require natural gas?

Given that geothermal heats and cools your home in ClockWork without any direct use of fossil fuels, natural gas consumption is greatly reduced in the entire community. This is just one of the ways a home in ClockWork helps you lower your carbon footprint.

What equipment is required in my home to support the geothermal system?

A group of quiet and compact ground source heat pumps connected to underground components built into the ClockWork community will replace both the traditional interior furnace and exterior central air conditioning units, which will be installed in the basement of the building.

How deep underground are the pipes buried?

The majority of the pipes that exchange thermal energy with the ground under the street are 180 to 260 metres underground, approximately three times the length of a football field.

What is the fluid that runs through the pipes?

The pipes used in the geothermal system carry a mixture of water and natural glycol; a safe, non-toxic additive.

What happens if my building's heat pumps or geothermal system is not functioning correctly and needs to be repaired?

Your building's heat pumps and geothermal system will be professionally managed and maintained throughout their useful life, in exactly the same manner as with any other heating and cooling system. Because multi-residential buildings actually have several heat pumps serving each building, the other pumps would continue to serve the building while one is being maintained or repaired.

Is the geothermal service part of the Ontario Energy Board?

The heating and cooling services and service levels being provided, as well as the rates charged to the consumer in the subdivision, are not regulated by the Ontario Energy Board or any other entity.

Is geothermal the same as GeoExchange energy?

Both terms have been used to describe this technology. Geothermal is a more commonly familiar term, but in other situations may refer to different categories of heat energy from the Earth's crust.

Where else has geothermal technology been implemented?

The science behind geothermal technology is tried and tested. Over the past 30+ years, geothermal technology has been installed and used in hospitals, universities, high-rise commercial buildings, airports and sustainable residential communities across North America.

Is geothermal safe?

Geothermal technology is considered safe, both technically and environmentally, being that the unit is combustion-free. There is no flame, exhaust pipe, or risk of carbon monoxide, and the fluid within the system is water mixed with non-toxic, food-grade glycol.

Will my home insurance premiums be affected?

Some insurance providers offer rebates or discounts to homeowners who have implemented energy-saving measures. You may be entitled to cost savings on your home insurance premiums depending on your provider.

What happens during a power outage?

Similar to traditional homes, a disruption to heating or cooling will occur until electricity is restored.

If a buried pipe is cracked, clogged or burst, how long could my home be stuck without heating or cooling?

The geothermal infrastructure is built with high-quality, high-density polyethylene piping, making it a highly reliable system. In the unlikely event a repair is required, you could expect a similar timeline to one associated with a comparable issue affecting a conventional natural gas line.



*The above projections are the result of modelling exercises by a third-party engineering consultant comparing geothermally heated and cooled suites with those using a typical natural gas furnace and air conditioner. There can be no assurance that such projections will prove accurate and actual results could differ materially from such projections. E.&O.E. October 2021