



News Release

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For Immediate Release

Langley Civic Building Opts For Green Heat

Langley Township's future civic building will be cooled and warmed by innovative 'green heat' in the form of a geexchange system once construction is finished.

Geexchange systems, commonly referred to as ground source heat pumps (GSHP), are recognized as the most efficient and environmentally friendly means of heating and cooling a building. To create the geexchange field for the new township facility, Sonic Drilling Ltd., contracted by Earth Source Energy, has drilled 48 vertical wells, at a depth of 250 feet deep, all located under the building's new parking area.

Using geexchange technology, the earth's stored heat is extracted through a loop system and pumped to a heat pump or exchanger, which in turn circulates the heat through a duct system into Langley's future township building.

In summer, the process is reversed: indoor heat is extracted from the air and transferred to the earth, producing a cool stable building environment.

Unlike gas or oil wells, geothermal energy does not run out. As energy is withdrawn to heat a building, it is replenished by the sun, all without burning fossil fuels or dumping harmful gases to the atmosphere.



The average home in Canada can **reduce CO² emissions by 2.5 to 5 tonnes annually** by using geo-thermal energy instead of electric heat or by burning fossil fuels. In addition to Langley's new township hall, other local examples of geexchange buildings include a North Vancouver aquatic/community centre and the Semiahmoo House in White Rock.