

## There Is A Treasure “BANK” In Your Backyard

Compare a furnace of 95% efficient to a geothermal system of 100% and better efficient

A furnace provides a CO-EFFICIENT OF PERFORMANCE “COP” of .95 (95%) or less

A geothermal system provides CO-EFFICIENT OF PERFORMANCE “COP” of 4.0 (400%) or greater. The delivery of 4 units of energy (geothermal) for every 1 unit of energy (gas or electric or oil) used.

A furnace CANNOT obtain a COP of a geothermal system.

**Example:** 1 whole unit of energy is purchased from your gas or electric or oil provider and .95 is used to heat your home. .5 is used to remove carbon dioxide. Then another whole unit of energy is purchased and so on and so on. Furnaces with lower efficiencies such as 80% buy 1 whole unit of energy and .80 is used to heat and .20 is used to remove carbon dioxide. Then more is purchased and used and so on and so on. Once purchased, it is gone forever.

**Example:** With a geothermal system, heat energy is transferred back and forth for both heating and cooling. Once used (purchased in the above example) it is a free and renewable energy supply used again and again. The ground temperature remains constant year round. Geothermal systems are quite beneficial to the environment as there is no burning fuel, so geothermal systems do not produce pollution.

Geothermal systems warm a building in the winter by transferring heat from the underground into a system for distribution. In the summer, the process reverses to provide cooling. Heat is removed from the building and transferred through the piping system back into the earth.

Additionally, a geothermal system can provide the domestic hot water.