



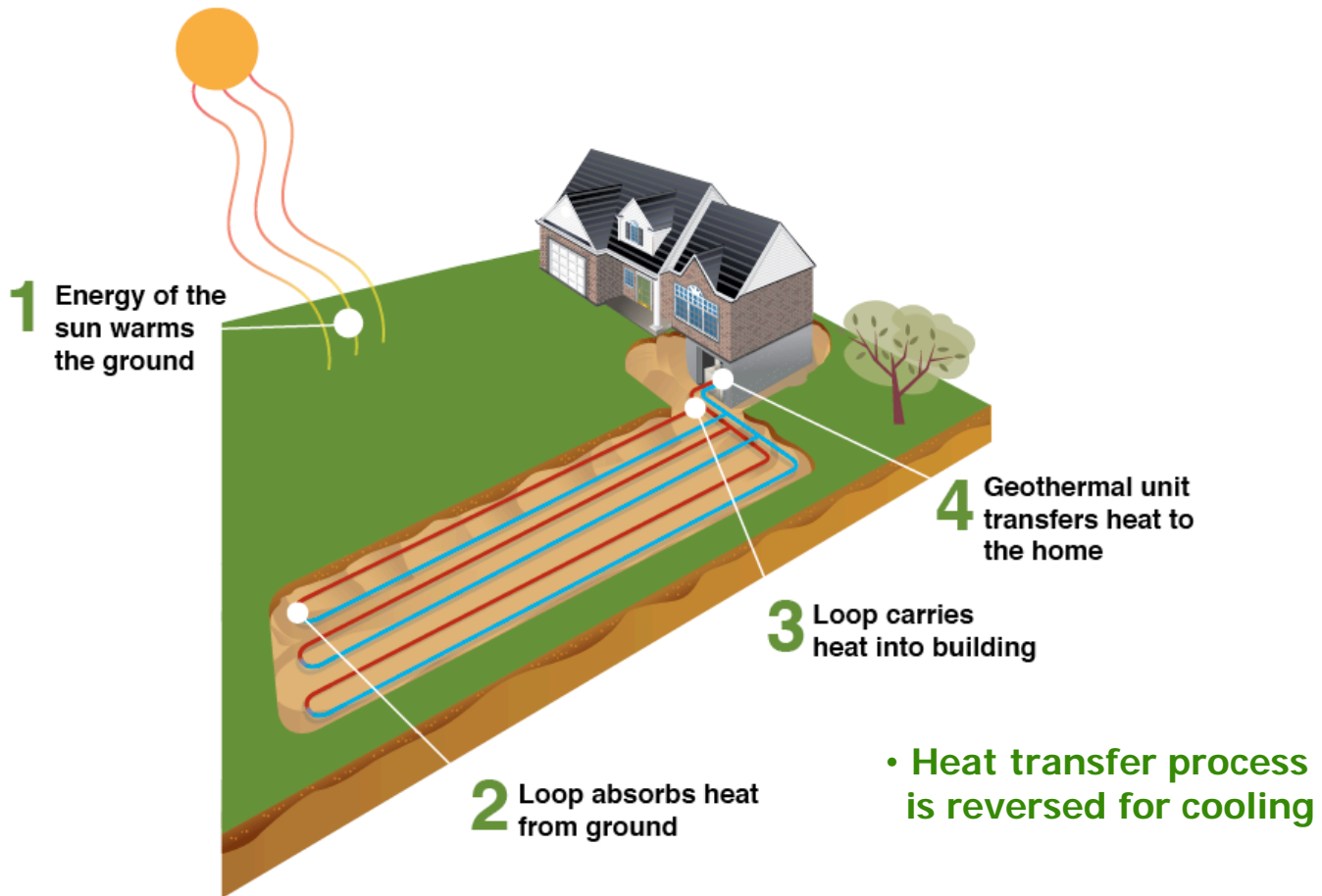
Energy from the ground up.



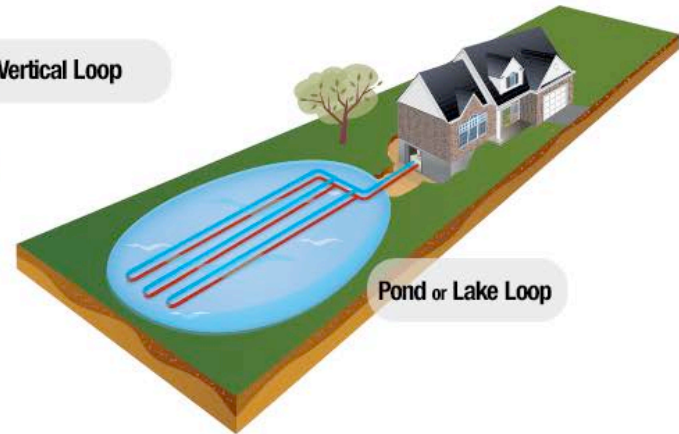
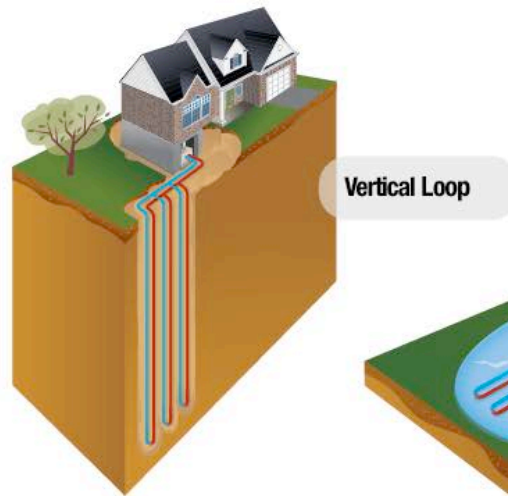
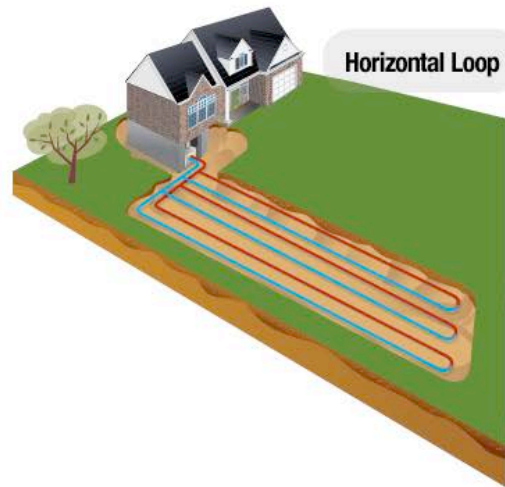
How does Geothermal Energy work?

- The earth absorbs 50% of the sun's energy
- Six feet down, the earth's temperature remains constant between 10 - 15° C all year
- Result = **AN UNLIMITED ENERGY SOURCE**
- Using a series of underground pipes, a geothermal system captures this FREE energy and puts it to use in the home

The Heat Transfer Process



Common Geothermal Loop Configurations



The Loop Installation

Horizontal Loop

Trenches are dug 6 feet deep and pipe is laid in loop circuits.



Vertical Loop

A series of holes are drilled in the ground. Pipe is placed vertically



Pond/Lake Loop Pipe

is placed in the lake or pond instead of the ground.



Radiant Heating

A different kind of pipe can also be placed in the house beneath the floors to provide radiant in-floor heating.









Geothermal Energy Efficiency

You only pay for roughly 25% of your home's heating and cooling costs, the rest comes FREE from your backyard



1 Watt of paid energy from the grid + **3** Watts of FREE energy from the ground = **4** Watts of energy into the home

Result:
400% Efficiency

Geothermal Heat Exchange

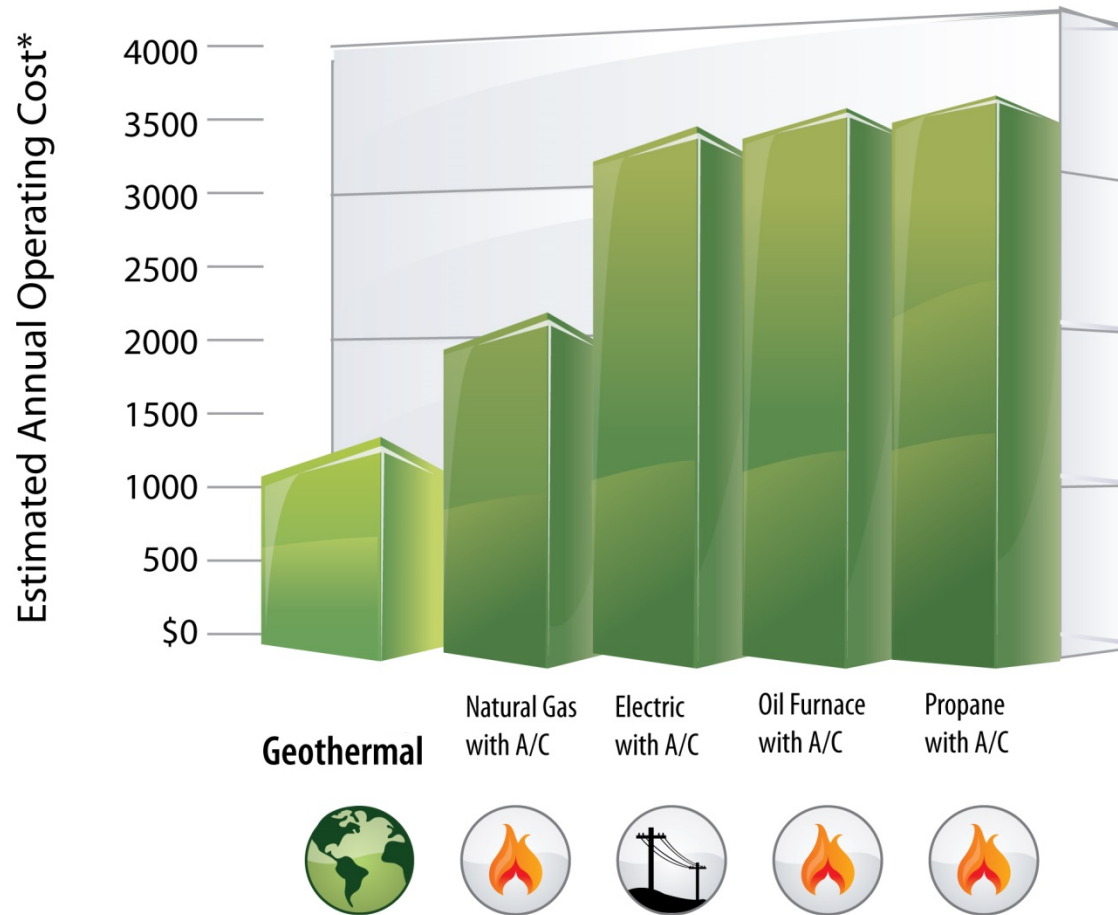
- One geothermal unit provides your home with heating, cooling and a portion of your domestic hot water.
- No noisy outside equipment.
- Standard geothermal equipment applications are forced air, hooked directly into your home's ventilation system and water to water, used for in-floor heating.
- NextEnergy's highest selling model, the "Tranquility 27™" is one of the most efficient heating and cooling systems available on the market.

Savings and ROI

- Geothermal eliminates the use of costly fossil fuels
- Using geothermal energy can save you up to 70% on your heating and cooling costs
- Cost difference of a geothermal system over a conventional system is often paid back between 5-7 years
- 75% of the heating and cooling for your home is FREE

A geothermal system pays you to own it!

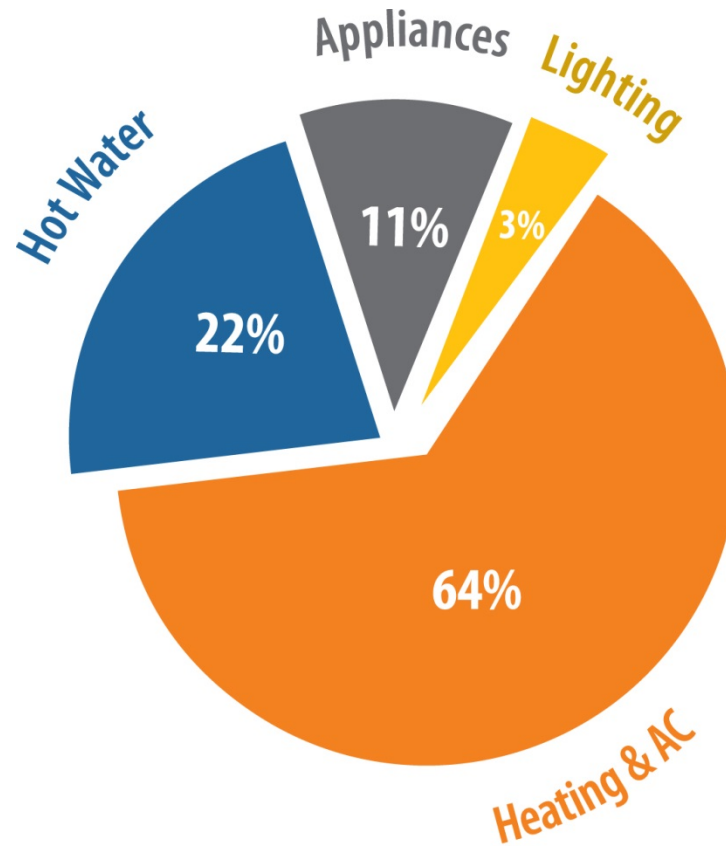
Operating Cost Comparison



Heating & Cooling System

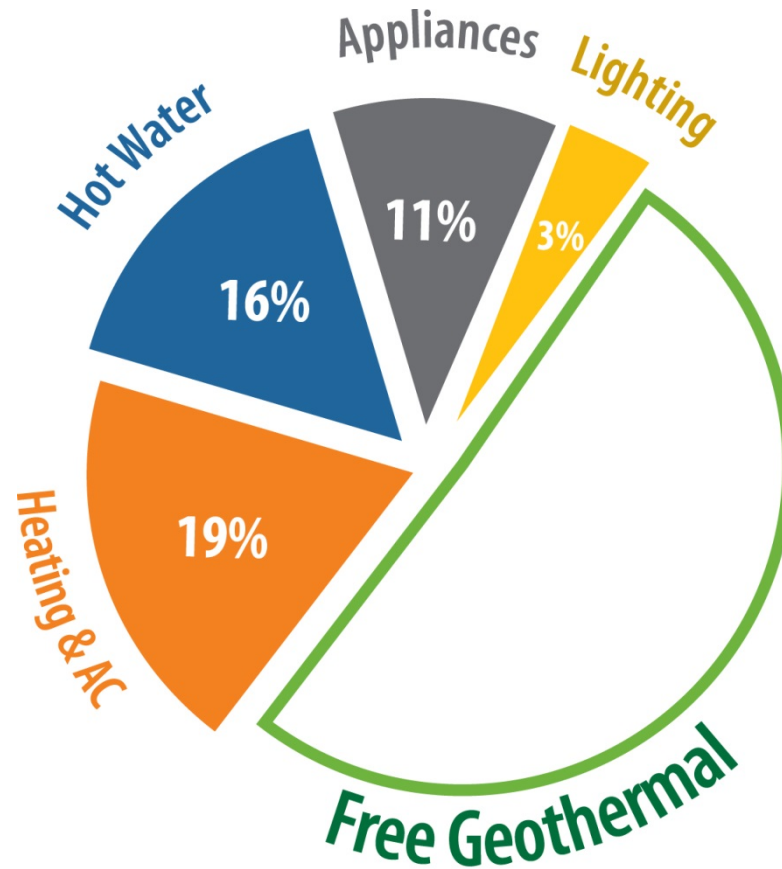
*Operating costs based on 2010 energy prices and typical Ontario house with four occupants.

Home Energy Use



Conventional System

Home Energy Use



Geothermal System

Environmentally Friendly

Clean, Renewable, Efficient

- A geothermal system emits zero emissions into the environment
- Installing one geothermal system is the equivalent to:
 - removing two cars off the road
 - or
 - planting one acre of trees in CO² reductions

Benefits of a Geothermal System

- **Return on investment**
- **Low operating cost**
- **Provides domestic hot water**
- **Comfortable home environment**
- **Quiet**
- **No outdoor equipment**
- **Versatile to most retrofits**
- **Low maintenance**
- **Long life expectancy**
- **Environmentally friendly, zero emissions**