

Geothermal Energy in the Agrihood

Heating, cooling, and hot water account for approximately 60% of the average home's energy use, making the three combined the largest energy expense for homeowners. Geothermal systems solve this problem by providing environmentally-friendly, cost-saving heating, cooling, and hot water so you can live more comfortably in your home without sacrifice.



A/C Unit, Quieter

Indoors

No Noisy Outdoor



Even and

Even and Comfortable Comfortable Air Flow Temperature



Integrated Humidification System



Often Outlasts

Other Systems

Can Assist in **Providing Hot**

Water



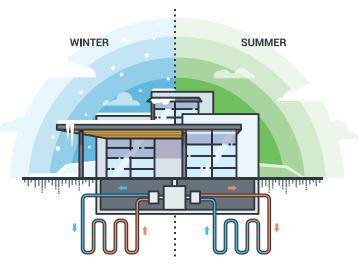


Lower Carbon Emissions



WINTER Heating Mode

In winter time, fluid circulating through the earth loop or well absorbs stored heat from the ground and carries it indoors. The geothermal heat pump compresses the heat to a higher temperature and distributes it throughout the home.

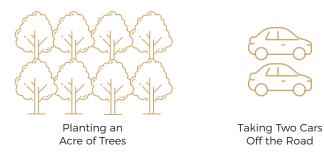


SUMMER Cooling Mode

In summer, heat from the home is rejected to the cooler earth through buried pipes. The cooled circulating fluid returns to the heat pump completing the cycle. The fluid is typically cooler than the outside temperature, providing a more efficient means of air conditioning.

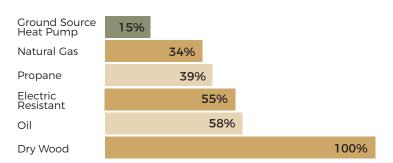
ESTIMATE *CO₂ Reductions*

Putting a geothermal system in a typical home is equal in greenhouse gas reduction to:



Source: Geothermal Heat Pump Consortium www.geoexchange.org

ESTIMATE CO₂ Reductions



Estimated CO₂ emissions for a building with 39,000 Btu/hr design heat loss at -3°F. Estimates based on the following CO₂ emission rates: Electricity, 0.76 lb CO₂/KWH; Natural Gas, 110 lb CO₂/MBTU; Propane, 126.7 lb CO₂/MBTU; Oil, 188.6 lb CO₂/MBTU; Dry Wood, 323.8 lb CO₂/MBTU. Source: 2013 Phoenix Energy Supply

COST REDUCTION Tax Benefits

Homebuyer is eligible for a federal income tax credit for 30% of costs under Section 25D of the Inflation Reduction Act. Please see **bit.ly/middlegeo** and consult with your accountant.





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