



# *Another* **GEO THERMAL ENERGY SYSTEM** *being installed*



*Diagram of a Residential Geothermal Energy System – Vertical blue and red lines depict the heat exchange well that services the Ground Source Heat Pump (GSHP) located in the home. Optional function – GSHP waste heat can preheat an electric water heater.*

Geothermal heating and cooling systems use electrically powered ground-source heat pumps that utilize the earth's high thermal capacity and constant 50-55 degree temperature as a sustainable energy resource. Water is circulated through a series of pipes buried beneath the earth's surface to heat your space in winter and cool your space in summer. This heating/cooling is provided by the ground-source heat pump installed in your building that provides air handling similar to a conventional forced-air furnace system. Due to the Geothermal system reliance on the stable earth temperature, instead of outside air that is subject to extreme temperatures, the process is 40-70% more energy efficient than conventional systems.

