

Ground Source Heat Pumps

Geothermal for Residential Properties



REDUCE

your carbon footprint

IMPROVE

comfort

LOWER

energy use

Heat pumps provide a clean, cost-effective alternative for heating and cooling

Heat pumps are a more efficient heating and cooling option that eliminate fossil fuels, can provide up to 100 percent of your heating and cooling needs, and help you save on your energy bills.

Ground source heat pumps

Heating, ventilation, and air conditioning (HVAC) systems are the second largest source of pollution and account for 32% of greenhouse gas emissions in New York State. However, there are renewable and sustainable alternatives for regulating indoor temperature. Ground source heat pumps (also known as geothermal heat pumps) are a natural, viable heating and cooling option and use significantly less energy than conventional systems.

How they work

A ground source heat pump uses the Earth's year-round, stable ground temperature as a heating and cooling source. During the winter, heat is extracted from the ground through an underground pipe system and distributed throughout the building. In the summer, the process is reversed. A minimal amount of energy is used during the process to power the compressor and circulation pumps.

Advantages

Ground source heat pumps are a particularly good option if you're planning a major renovation or building a new home. They are quiet and efficient, regulate temperature in different zones simultaneously, require no fossil fuels (gas or oil), and produce significantly less carbon. Because there is no combustion, they are safer and healthier to run. Systems can lower energy costs up to 50% and last approximately 25 years, greatly increasing return on investment.

Incentives and Financing

Increased rebates and low-interest financing rates are available. Most customers can expect \$12,000 in rebates on average and qualify for federal tax credits. There's never been a better time to invest in a clean heating and cooling system.

Ready to get started?

Sustainable Westchester's HeatSmart Westchester is a community organization that can help you determine if a ground source heat pump is a good fit for your home and pair you with a contractor based on your home's heating and cooling needs. Connect with HeatSmart Westchester at HeatSmart@SustainableWestchester.org or 914-242-4725 x 122.

Ground Source Heat Pump System

