



# Harness the power of sun & earth

Should it be any surprise that **the sun and the earth** can work together to help provide your home with comfort year-round? By combining **solar thermal energy with a geothermal system**, not only do you take advantage of **free energy** from the sky and the ground, but you also have a **winning combination** for a **highly efficient way to heat and cool** your home.

By collecting solar thermal energy throughout the year, the system handles **all** of your household's **hot-water needs** for the year, leaving your existing water heater for emergency back-up purposes. Domestic hot water consumes **20% to 25% of your home's annual energy** needs (second only to space heating), so you will see immediate savings on your utility bills.

Leftover energy not used for water heating is then used for **space heating** during the colder months of the year. Space heating consumes roughly **60% of your home's annual energy** requirements.

What do you do with the energy remaining? If you have a "heat dump" (such as a **swimming pool or a geothermal loop**), the excess energy is used to warm the pool, or placed in the geothermal loop for future use. If there is no heat dump, a drain-back system is implemented for optimum efficiency.

Using solar and geothermal power together is an ideal way to reduce your electricity and natural-gas bills. Not only are you **saving money**, you are helping the environment by replacing fossil fuels, which leads the way to an environment with less pollution and less greenhouse gas.

Start **saving today** with **SunTap Technologies!**



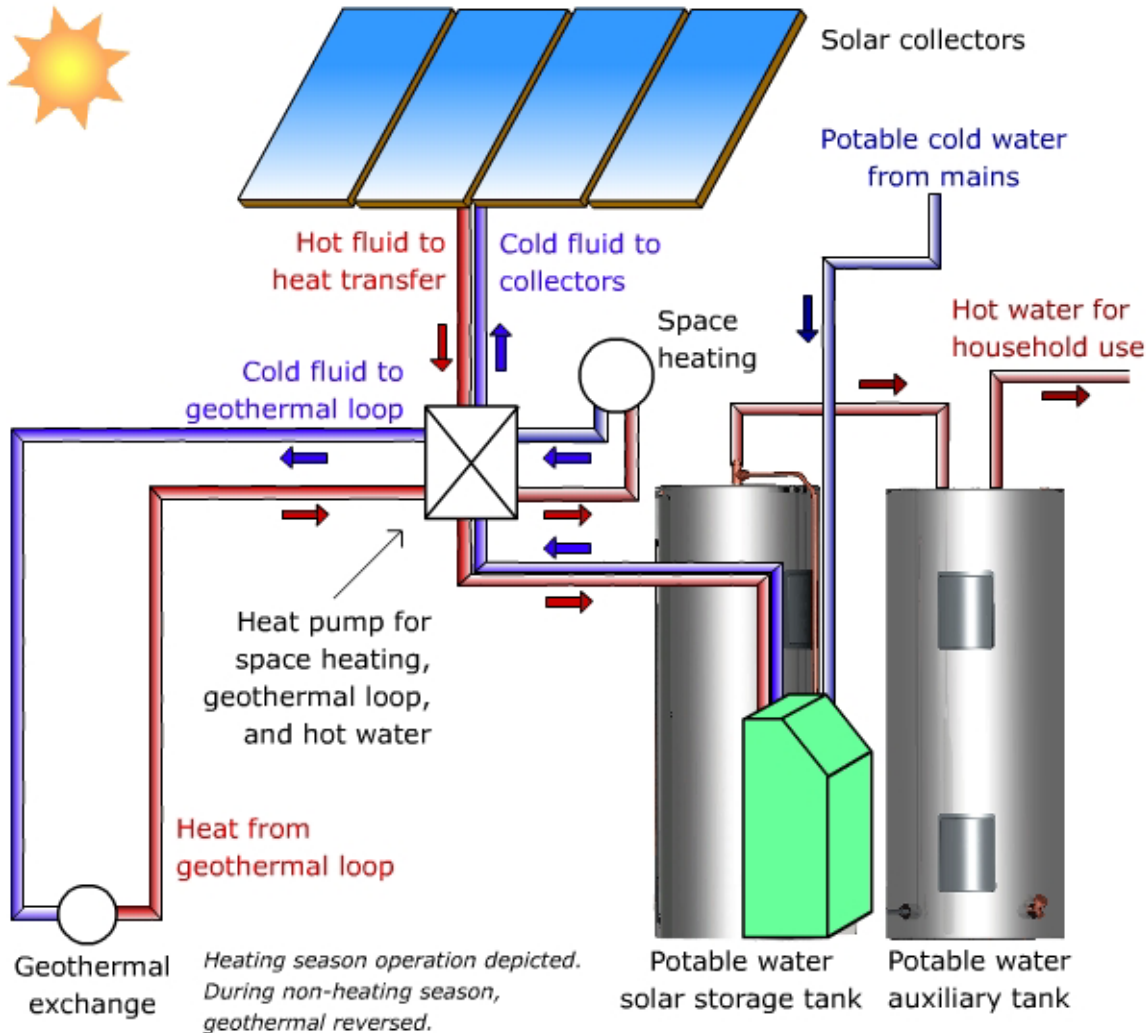
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# How it works

Located on the roof of your home, the solar collectors absorb the sun's heat and transfer it to a food-grade fluid that is protected from freezing and boiling. The fluid carries the solar energy to the heat pump, which then directs the fluid to the household demand: water heating, space heating, or heat dump (geothermal or pool). An electronic controller determines automatically when to collect the available solar energy.

The solar equipment installed by SunTap Technologies are designed to produce heat for your home efficiently and safely.



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