Geothermal power for individual homes

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You use more than half of your energy consumption for heating and cooling your home. Most of the power comes from electricity which is often created by fossil fuels. These fossil fuels, like coal or natural gas, are nonrenewable sources. Geothermal energy for homes helps mitigate fossil fuel usage.

Thermic energy works by using heat close to the earth"s surface. The system pumps water or refrigerant through the pipes below ground. The temperature is constant at about 50? to 60?. During the winter, the water absorbs the warmth, to heat your house. The process is then reversed in the summer.

Here are the steps the system goes through:

2. When it is cold, the water warms up as it travels underground.

3. Once above ground, the heat is transferred to your house.

4. After the building is heated the water cools down and is pumped back underground. Then the cycle starts again.

5. On a summer day, the water cools the building and then is pumped underground. The heat then goes to the pipes.

Geothermal energy is an eco-friendly source of power for your residence. Here are a few more advantages of geothermal energy for homes.

Geothermal pumps can run anytime since their fuel source is constant. The earth"s internal temperature remains the same and is a renewable source. Unlike solar or wind it doesn"t rely on outside factors to run. Plus, geothermal sources are more flexible. It"s easier to increase or decrease heat production depending on your needs.

Thermal power releases less greenhouse gas emissions than traditional fuel sources. Geothermal power plants produce about 5.7 g of carbon dioxide. Lowering emissions is critical in minimizing the impacts of global warming. As earth temperature rises, more severe storms occur and wildlife habitats are disrupted.

Many industrial processes, such as manufacturing textiles, rely on fossil fuels. They need the energy to assemble products and heat the buildings. In 2015, about 30% of all energy used by the industrial sector was natural gas. So, switching to non-solar energy reduces the number of fossil fuels consumed.

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Web: https://www.kary.com.pl/contact-us/
Email: energystorage2000@gmail.com
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