

THE ROLE OF GEOTHERMAL ENERGY IN THE NATIONAL ECONOMY

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ABSTRACT

Thermal energy that is generated from the earth and also stored inside the earth's crust is collectively called geothermal energy. The available geothermal energy is mainly the result of the formation of the planet, as well as due to minerals that are in a continuous process of radioactive decay.

Keywords: geothermal, Cost-effectiveness, Compared, Petroleum, Biofuels, Serious

INTRODUCTION

Thermal energy that is generated from the earth and also stored inside the earth's crust is collectively called geothermal energy. The available geothermal energy is mainly the result of the formation of the planet, as well as due to minerals that are in a continuous process of radioactive decay. The actual meaning of the word "geothermal" goes back to the Greeks, when "ge" was called earth, and "thermos" meant hot. The main cause of this energy is molten rock or magma, which is located well below the earth's crust.

MATERIALS

The actual production of geothermal energy began during the Paleolithic, when a decent amount of this energy was used for bathing, and then it was continued in the Roman era for heating rooms.

Only geothermal energy has a number of features that, in turn, make it reliable. This energy is environmentally friendly as well as economical.

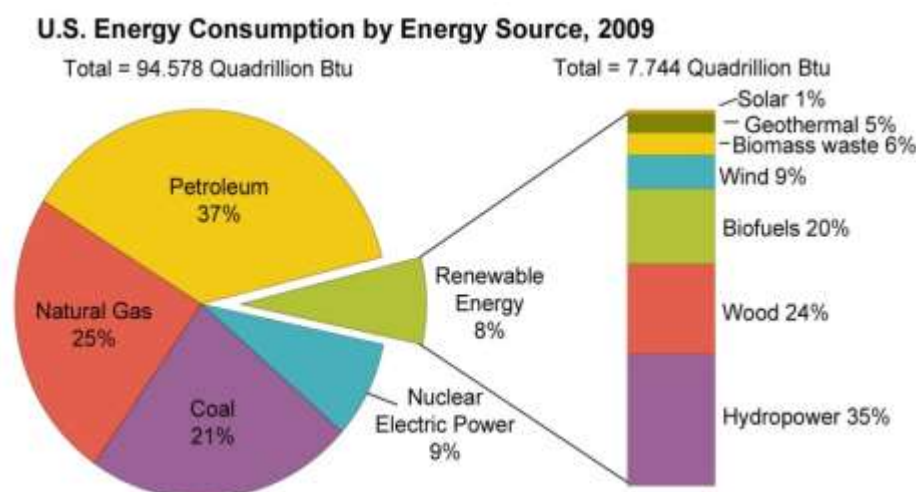
METHODS

The advantages of this are as follows:

- 1) Environmentally friendly energy: The main advantage of using geothermal energy is that it is extremely environmentally friendly and therefore does not cause any pollution. It does emit gases that are deep inside the earth, but their harm to the environment can be considered insignificant.



- 2) Cost-effectiveness: It is believed that this type of energy is very economical, since it does not use fossil fuels at all and, therefore, saves a lot of non-renewable energy. Therefore, the total amount required for infrastructure and maintenance is quite small compared to various types of non-renewable energy.
- 3) Can be used directly: Geothermal energy is extremely cheap and affordable. In history, this energy was used for a variety of purposes, such as bathing, heating, etc. Even today it is widely used for heating offices and homes.
- 4) Use in agriculture: Geothermal energy is also used in a number of farms, especially for heating their greenhouses.
- 5) Used in homes: It can also be used to cool houses. There is a completely different point of view on this. The heat inside the house is absorbed and sent through pipes to the ground. Here it is naturally cooled, and then the cooled air returns to the house through another pipe.
- 6) Using fish farms: You may be surprised that geothermal energy has not been missed anywhere. Even , at a lot of fish farms, this type of energy is used and used .The warm water obtained in this way from heat can be used for the survival of several animals, such as tropical fish, amphibians, etc.



RESULTS

Geothermal technology has not advanced yet no other. Geothermal energy can be used strategically for a number of purposes and used as an excellent alternative energy source.

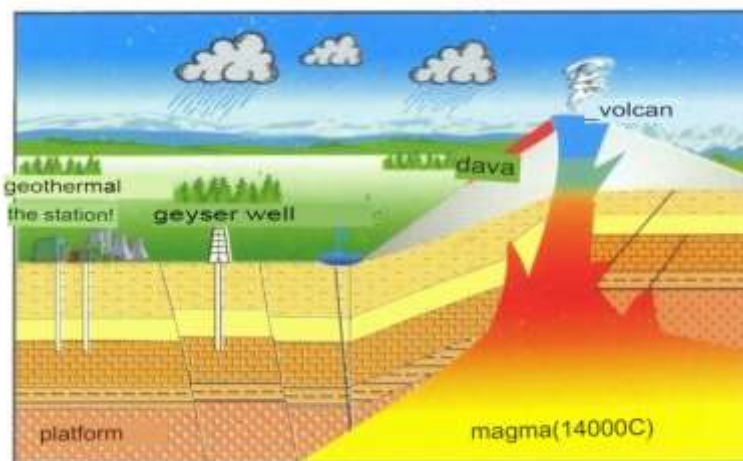
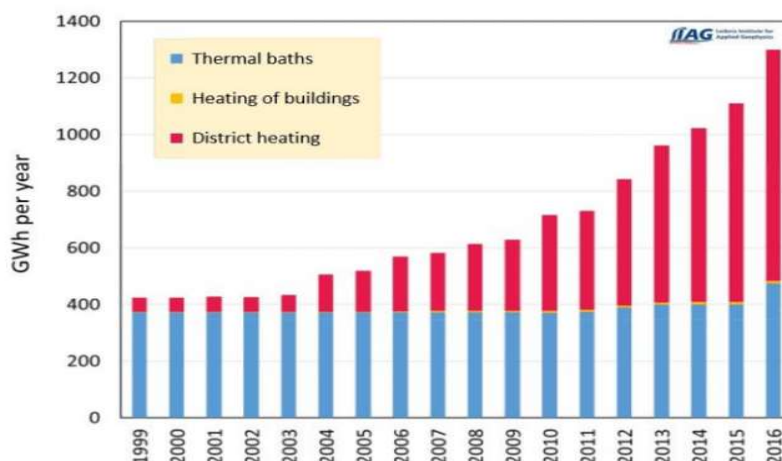
Why has geothermal energy turned into one of the most popular renewable energy sources these days?

Green energy = geothermal energy.

Geothermal energy, being environmentally friendly, is unlikely to encounter any difficulties or drastic negative impacts on the environment. Geothermal energy is, in fact, the future of the "green" generation.

It quickly became known as "alternative energy" because it is reliable and sustainable. This is not only a clean form of energy that is produced by geothermal power plants, but can also greatly benefit the unemployed by providing jobs. Compared to wind energy, it really seems very reliable. Wind energy is the choice of a strategic position to use the best available energy,

but geothermal energy is not. Geothermal energy can be used almost anywhere, because the heat present inside the earth is always constant. Similarly, even solar energy has its drawbacks. On cloudy days, when there is no exposure to the sun, solar-powered devices work inefficiently, and sometimes do not work at all. This seems to be a serious setback, and therefore solar energy cannot be fully called an alternative energy source. But geothermal installations that are usually installed do not face violations, and they continue to operate for several years without any major failures. In addition, geothermal plants that were created several years ago are still being used in the best way even today.



DISCUSSION

The actual impact of geothermal energy on the environment:

A combination of several gases present in the earth's crust is released into the atmosphere using geothermal installations. Some of them are also methane, ammonia and carbon dioxide. But the amount of harmful gases released by these installations is comparatively less than the amount of harmful gases released by burning fossil fuels. There are several other toxic elements that come into the picture. For example, mercury, boron, antimony, etc., which are considered harmful only if they fall on the surface of the earth. But geothermal energy has improved so much that now these harmful toxic elements are being pushed even more back into the earth's crust instead of throwing them into the earth's atmosphere.

CONCLUSION

And that's not all. There were also cases of land subsidence. Serious or intensified plant construction can affect the land and cause natural disasters such as subsidence.

Although geothermal energy does have several negative impacts, the overall benefits it can bring to the world are phenomenal. Moreover, it is a great alternative to burning fossil fuels. If geothermal energy takes its place, and also if it is used strategically to completely eliminate the use of any types of fossil fuels, then we can count on building a more environmentally friendly future for our tomorrow.



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