

# Geothermal Energy and its Applications

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In this paper geothermal energy is reviewed as an example of new energies. New energies are considered to be of high importance because they provide a alternative for fossil fuels. Fossil fuels are non-renewable, they cause environmental and climate pollution. Increase in world population and the need for more energy, is another reason to turn to new and renewable energies.

In this paper we will discuss the source of geothermal energy and some of its applications. Geothermal resources are typically used directly in applications such as district heating, greenhouses, fisheries, mineral recovery, industrial process heating, snow melting , desalination and heat pumps, as well as using indirectly such as in power plants. In this paper Iceland will be introduced and exemplified as a country highly successful in utilizing new energies; after which our discussion will focus on regions of Iran which are considered to have high potential for the use of geothermal energy. Finally we will discuss alternative energies for fossil fuels (new and renewable energies) and describe importance and the advantages of these new energies both in Iran and the world.

**Keywords: Geothermal Energy, New and Renewable Energy, Application of Geothermal Energy, Alternative Energies.**

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