

Geothermal energy pdf

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Reinjected water can replenish the geothermal reservoir Geothermal energy from deep wells is converted to clean power. Finding alternative energy sources to hydrocarbons, optimizing the energy production, integrating different energy sources, reducing waste heat and the environmental impacts are some of the current objectives On the bases of the country's energy development plan, production of electricity in Ethiopia has to reach, MW by This includes generation from hydro, geothermal, wind, solar and waste to energy (Appendix, Table 1). Depending on its characteristics, the geothermal energy can be used for heating and cooling purposes or can be harnessed to generate clean electricity Literally "heat from the earth," geothermal energy is a renewable energy heat source found under the surface of the earth. We can use the steam and hot water produced inside the earth to heat buildings or generate electricity. Water and/ or steam carry the geothermal energy to the earth's surface. However, where the upfront costs are high, the outlay can be recouped as part of a long-term investmentSustainability. ENERGY INSIDE THE EARTH Geothermal energy is Geothermal energy is heat derived within the sub-surface of the earth. In order to maintain the sustainability of geothermal energy fluid needs Geothermal Energy - Science, Society and Technology focuses on fundamental and applied research needed to deploy technologies for developing and integrating geothermal energy as one key element in the future energy butions include geological, geophysical, and geochemical studies, exploration of geothermal fields, reservoir Geothermal energy is the thermal energy stored in the underground, including any contained fluid, which is available for extraction and conversion into energy products While there are many ways in which geothermal energy can be applied, the focus of this paper is on residential applications of geothermal through the use of geothermal heat pumps (GHPs). The cooled water is reinjected into the reservoir. MIT Energy Initiative Geothermal energy can significantly contribute to the diffusion of low carbon technologies for the generation of electricity, heating and cooling. Geothermal energy is a renewable energy source because the water is replenished by rainfall and the heat is continuously produced inside the earth. The total planned geothermal electricity by is MW (Appendix, Table 2) Geothermal energy is an expensive resource to tap into, with price tags ranging from around \$2-\$7 million for a plant with amegawatt capacity. Geothermal energy has significant potential as part of a renewable energy mix geothermal energy is heat from within the earth.

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