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by Zzzz Zzzzz

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Renewable and non-renewable resources

Name

Institution

Course

Date

Resources

Renewable	Non-renewable
<p>Resource: Geothermal It is used as clean energy that comes from deeply the surface of the earth How it is turned into electricity: This resource is converted into electricity by first harnessing steam produced as it escapes geothermal reservoirs. After harnessing, this energy is taken to a geothermal power plant. In this plant, steam is converted into electricity. This is done use of high-pressure steam within turbines to rotate turbine shafts. The rotating turbine shafts produce electricity. Impacts: The impacts include noise as well as sight pollution, soil subsidence, water and gas discharges besides foul smell produced. Pros: It has high demand in countries like phosphines and one of the renewable resources.</p>	<p>Resource: Coal Coal is used to produce electricity in power stations after it has been refined and burned. How is turned into electricity Coal is turned into electricity by burning it. In coal-fired plants, there are boilers where coal is burned to produce steam. This steam is generated under high pressure then it flows through the turbines spinning generator hence creating/producing electricity. Impacts Once the coal is burned it produces carbon dioxide that brings about greenhouse effects. The combustion of coals as fossil fuels produces nitrogen oxide and sulfur dioxide that causes respiratory problems. Pros One of the advantages of coal is that it supplies a quarter of the world with energy. Besides, it's in abundance</p>
<p>Resource: Hydropower energy It is used in the production of electrical energy in the whole world and relies on water. How it is turned into electricity The cyclic movement of waterfalls and rotates turbine blades that spins a generator converting mechanical energy of these spinning turbines into electrical energy. In other words, water flows through pipes in hydropower plants. This pushes and turns blades within the turbine that leads to the spinning of the generator hence producing electricity. Impacts: Hydropower has major impacts on aquatic life. It can lead to migration or even the killing of fish passing through hydropower turbines. Pros Hydropower is one of the first sources utilized in the generation of electricity. Besides, it is the major source of renewable energy used in different parts of the world including the united states as it accounts for around 6.6% of total electricity generated in the States.</p>	<p>Resource: Oil and petroleum products We use these resources production of electricity, heating buildings, and as methods of propulsion or propelling vehicles and machines. How it is turned into electricity: To produce electricity, oil products are converted by use of some methods such as combustion turbine, convectional steam, and combined cycle technology. Convectional steam- The oil is burned to facilitate the heating of water. The heated water creates steam that produces electricity. Combustion turbine. Here a lot of pressure is applied when burning oil. This results in the production of exhaust gases. The gases, therefore, spin turbines generating electricity. The combined cycle technology works by combusting oils by use of exhaust heated gases that produce electricity. Impacts Oil pollutes air just like coal and thus by producing toxic gases can lead to acidic rainfall and severe respiratory diseases. Pros The pros of this resource are that it is formed from flora and fauna that existed million years ago and produces 4% of the electricity in the world.</p>

References

Jones, M. (2021). Renewable and Nonrenewable Resources: Differences Explained.

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