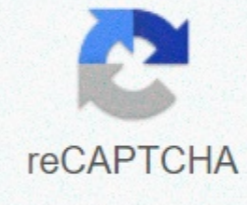




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# Renewable and nonrenewable energy worksheet pdf

Renewable energy is energy derived from naturally-occurring sources that can be constantly replenished such as solar, wind and hydroelectric power. This contrasts with energy sources like oil and coal, which rely on burning a material which must be found extracted and is not recreated. Renewable energy is often associated with environmentally-friendly, or green energy, since it largely involves the use of clean natural resources, though certain types of renewable energy do produce pollution, and some even argue nuclear power is a renewable energy source. As the global demand for energy increases, renewable energy has become an increasingly important focus around the world, as relying on non renewable energy sources is an unsustainable practice in the long run. The largest source of renewable energy currently used is hydroelectric power. Hydroelectric power involves harnessing the kinetic energy of flowing water to turn turbines in order to produce electricity. A similar form of renewable energy is wind power, which involves harnessing the kinetic energy of wind currents to turn large fan-like turbines. Solar power, involves using the light and heat produced by the sun as an energy source. The oldest, and perhaps the most common type of renewable energy is the burning of biomass--such as burning wood in a fireplace to heat a home. Plants have more recently been used to create bio fuels (such as ethanol as an alternative to gasoline) and bio gases as an alternative to natural gas. Geothermal energy is another type of renewable energy that involves harnessing the natural heat of the earth's core to produce power. Given the increasing population of the human race, the importance of renewable energy is likely to continue to increase in the future, as well as a shift toward more cost efficient energy sources. Currently most of the world's vehicles operate on gasoline or diesel fuel derived from crude oil, and renewable substitutes to these fuels, such as ethanol, are not terribly energy efficient. Other clean technologies, such as electric power, hydrogen power cells, compressed air, or new biofuels present possible sources of renewable and efficient fuels for vehicles. From the standpoint of electrical power, solar energy has a huge potential, considering the amount of energy the sun produces is thousands of times greater than the needs of earth. Reading Time: 5 minutesTechnologies like solar and wind power are becoming more common across the globe, and are both examples of renewable energy sources. There are several ways to generate power from renewable sources. These alternatives to fossil fuels will become an even more important part of our power generation mix in the years to come. What are renewable energy sources?Renewable energy sources are sources of energy that is constantly replenished through natural processes. These resources are often also referred to as alternative or renewable energy, mainly because they are a fuel option that can replace conventional non-renewable fossil fuels. Fossil fuels, like oil and coal, produce energy when they are burned, but their supply is limited because they don't naturally replenish on a short enough timescale for humans to use.Renewable energy sources are beneficial because they have a very limited negative environmental impact when compared to fossil fuels. In the past, they were too expensive to be used widely. However, that's changing -- many renewable energy sources are cost-effective, and some can even be a smart financial decision for homeowners, businesses, and governments. In particular, solar energy is a great option for property owners who want to reduce their environmental footprint while saving money. You can learn just how much solar will save you while helping the environment with EnergySage's Solar Calculator.The 5 main alternatives to fossil fuelsThere are five main technologies that are considered "renewable energy sources". We've put together an infographic below to compare the main five renewable energy options side by side:Infographic: 5 types of renewable energy resourcesRead on for even more detail on these renewable sources:Solar energyOne of the most popular types of renewable energy is solar power. Solar energy comes from the sun, which supplies our entire planet with the energy we need to survive. Using solar panels, we can harvest energy directly from sunlight and convert it to electricity that powers our homes and businesses. Solar energy can also be used to produce hot water or charge battery systems.Solar energy has benefits both for your bank account and for the environment. The cost of solar is constantly dropping, and installing solar on your home will almost always save you money over the lifetime of your installation. On top of that, producing solar energy doesn't pollute or release fossil fuels, which means you can dramatically reduce your environmental impact by installing solar.Wind powerAnother type of renewable energy that we interact with every day is the wind. When you feel the wind, you're simply feeling air moving from place to place due to the uneven heating of Earth's surface. We can capture the power of wind using massive turbines, which generate electricity when they spin. While not always a practical option for an individual homeowner, wind power is becoming increasingly popular for utility-scale applications. Massive wind farms spanning many square miles can be seen around the world. Like solar energy, wind power is essentially pollution-free and is a growing and important renewable energy source supplying electricity to grids around the world. In 2017, wind farms produced more than six percent of the electricity used in the U.S.HydropowerWe can produce renewable energy from moving water just like we can from moving air. Energy is generated when moving water runs through a turbine, spinning it to produce electricity. This often happens at large dams or waterfalls, where water drops significantly in elevation. Two important places where hydropower (also known as hydroelectricity) is produced are the Hoover Dam on the Colorado River and at Niagara Falls on the border between New York and Canada.Many renewable energy sources have yet to make a significant impact on the overall U.S. electricity mix, but hydropower is already a major player. Large hydroelectric facilities around the country contributed 7.5% of the electricity used in the U.S. in 2017, and that number is growing. In addition to massive projects like the Hoover Dam, hydroelectricity can be produced through smaller projects, like underwater turbines and lower dams on small rivers and streams.Hydropower is also a non-polluting energy source, as there are no emissions generated from hydroelectric facilities. However, hydropower does have a greater environmental impact than some other renewable sources of energy, because they can change water levels, currents, and migration paths for fish and other freshwater life.Geothermal energyEarth has a massive energy source contained within it. Heat trapped when our planet formed, combined with heat generated from radioactive decay in rocks deep beneath the crust, results in a massive amount of geothermal heat energy. Sometimes that heat escapes in large amounts all at once, which we see as volcanic eruptions on the surface.We can capture and use geothermal energy by using steam from heated water to spin a turbine. In a geothermal spring system, water is pumped below ground. Once it is heated, it rises back to the surface in the form of steam and spins a turbine to generate electricity. Additionally, geothermal heat can be used directly to provide heating or cooling to buildings. With this technology, known as a ground-source heat pump, a fluid is pumped below the ground surface to be heated or cooled, where the temperature is constant year-round at about 50 degrees.While still a small part of our energy mix, geothermal energy is a promising renewable energy source, with massive potential for energy supply. In Iceland, for example, geothermal energy already accounts for 90 percent of home heating needs and 25 percent of electricity needs. However, there are some concerns with geothermal energy, including the cost of constructing a power plant and its relation to surface instability and earthquakes.BiomassOne last example of renewable energy is biomass. Biomass energy refers to any energy produced from recently living organic matter like plants or animals. Biomass is a renewable resource because plants can be regrown relatively quickly, and they grow using renewable energy from the sun. Fuels like ethanol and biodiesel (both used for cars and trucks) also come from biomass.Biomass fuels are also considered to be "carbon-neutral," meaning they don't put any extra carbon dioxide into the atmosphere. This is assumed to be true because, in principle, as long as new plants are planted and grown whenever plants are harvested and burned for energy, those new plants will take up the carbon produced by combustion, leading to no extra carbon added to the atmosphere. However, regrowing plant life takes time, and the degree to which biomass fuel is truly carbon-neutral is up for debate.Solar energy is the most practical renewable energy source for homeownersIf you are looking to reduce your environmental footprint and save money in the process, you might want to look in to going solar. With solar prices continuing to fall, the time to start generating power from the sun is now.On the EnergySage Solar Marketplace, you can solicit quotes from high-quality, pre-vetted solar installers near you. By comparing solar quotes, you can be sure you are getting the best deal for solar. If you are in the early stages of shopping for solar and want a ballpark estimate for an installation, check out our Solar Calculator that can show you the up front costs and long-term savings you could see from a solar energy system. renewable and nonrenewable energy worksheet answer key. renewable and nonrenewable energy worksheets high school. difference between renewable and nonrenewable energy worksheet. renewable and nonrenewable energy ks2 worksheet. renewable and nonrenewable energy sources worksheet answers. renewable and nonrenewable energy resources worksheet pdf

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