

Alternative Energy Sources

Alternative energy refers to energy sources that are not based on the burning of fossil fuels or the splitting of atoms. Fossil fuels are nonrenewable and create pollution when burned. Nuclear energy produces harmful radioactive waste products. Alternative sources can provide clean renewable energy for use in homes and communities. Match each term in the word box to its description.

cells
tidal
wind technology

windmill
solar energy
wind

hydroelectric
efficient
hotspots

geothermal
sun

- 1 _____ The most renewable energy resource, it provides Earth with 35,000 times more energy than human activity uses altogether.
- 2 _____ The apparatus used to capture wind power and turn it into electrical energy.
- 3 _____ An indirect source of solar energy, it is caused by the heating and cooling of Earth's surface.
- 4 _____ This energy is obtained from Earth's internal heat and can be used to generate steam to run a steam turbine.
- 5 _____ This is an area of reduced thickness in Earth's mantle that allows heat from the interior to reach the outer crust. Volcanoes, vents, and geysers are examples.
- 6 _____ One of our earliest energy resources, this technology is dependent upon weather and location.
- 7 _____ This is the origin for radiant energy and most other types of energy in our solar system.
- 8 _____ This form of energy is generated by the effect of gravity between Earth and the moon.
- 9 _____ This energy source comes from rivers by utilizing the potential energy stored in the moving water.
- 10 _____ These are units that convert sunlight directly into electricity.
- 11 _____ This describes resources that produce energy effectively with a minimum of waste, expense, or unnecessary effort.