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| **Across****3.** An \_\_\_\_\_\_\_ solar heating system captures energy from the sun by pumping a heat-absorbing fluid such as water or an antifreeze solution through special collectors. **5.** This type of solid waste is often called garbage or trash and consists of the combined solid wastes produced by households and workplaces other than factories. **8.** One way utility companies and industries can save energy is to use \_\_\_\_\_\_\_\_\_ to produce two useful forms of energy from the same fuel source.**13.** A type of rock that contains a large enough concentration of a mineral.**14.** This is the world's most abundant fossil fuel. **16.** \_\_\_\_\_\_\_ time is the time it takes to use up a certain proportion of the reserves of a mineral at a given rate.**17.** Nuclear \_\_\_\_\_\_\_ occurs when a neutron is used to split a large nucleus into two or more smaller nuclei. **18.** A chemical element or inorganic compound that exists as a solid with a regularly repeating internal structure. **19.** This type of solid waste is produced by mines, farms, and industries that supply people with goods and services. **20.** \_\_\_\_\_\_ mimics nature by using bacteria to decompose yard trimmings, vegetable food scraps, and other biodegradable organic waste into humus.  | **Down****1.** A building that has enough access to sunlight can get all or most of its heat through a \_\_\_\_\_\_\_\_ solar heating system.**2.** In a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, solid waste is spread out in thin layers, compacted, and covered daily with a fresh layer of clay or plastic foam.**4.** Solar energy can be converted directly into electrical energy using \_\_\_\_\_\_\_\_\_ cells.**6.** A solid combination of one or more minerals found in Earth's crust,**7.** Requires an enormous amount of energy and decreses oil's net energy.**9.** \_\_\_\_\_\_ gas contains a mixture of gases,of which 50-90% is methane.**10.** The portion of a mineral resource that is economically and technically feasible for mining.**11.** \_\_\_\_\_\_ waste is any unwanted or discarded material people produce that is not a liquid or a gas.**12.** The \_\_\_\_\_\_ fuel cell is another potential energy resource, which could be used to power eletric vehicles.**15.** \_\_\_\_\_ energy is the amount of high-quality energy available from a given quantity of an energy resource minus the high-quality energy needed to make that energy resource available.  |

   Mineral        Rock       Reserve       Ore       Depletion       Net        Coal       Natural       Refining        Fission        co-generation        Hydrogen       Passive       Active       Photovoltaic       Solid       Industrial        Municipal        Sanitary Landfill       Composting