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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