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| **Across**  **4.** waste product produced by burning of coal  **6.** rocks and Earth that are removed when strip mining for a commercially valuable mineral resource  **12.** theory concerning the long-term rate of fossil fuel extraction and depletion; predicts that world oil production will reach a peak and rapidly decline  **13.** semiconductor device that converts the energy of sunlight into electric energy  **18.** oil; hydrocarbon that forms as sediments are buried and pressurized  **19.** involves the removal of Earth's surface all the way down to the level of the mineral seam  **20.** capacity to do work  **21.** nuclear reaction in which an atomic nucleus, especially a heavy nucleus such as an isotope of uranium, splits into fragments, usually two fragments of comparable mass, releasing from 100 million to several hundred million electron volts of energy  **22.** energy of motion  **23.** nuclear reactor that generates more fissionable material than it consumes | **Down**  **1.** hydrocarbon deposit, such as petroleum, coal, or natural gas, derived from living matter of a previous geologic time and used for fuel  **2.** estimate of fossil fuel that can be obtained from a reserve  **3.** power generated using water  **5.** involves sinking of shafts to reach underground deposits, networks of tunnels are dug or blasted and humans enter the tunnels in order to manually extract coal  **7.** stored energy  **8.** cleanest-burning coal; almost pure carbon  **9.** the amount of time it takes for half of a radioactive sample to degrade  **10.** form petroleum takes when in the ground  **11.** nuclear reaction where two nuclei are fused to form one or more different atomic nuclei  **14.** unit used to describe the volume of fossil fuels  **15.** sunlight  **16.** least pure coal  **17.** process by which unstable nuclei emit energy over time |