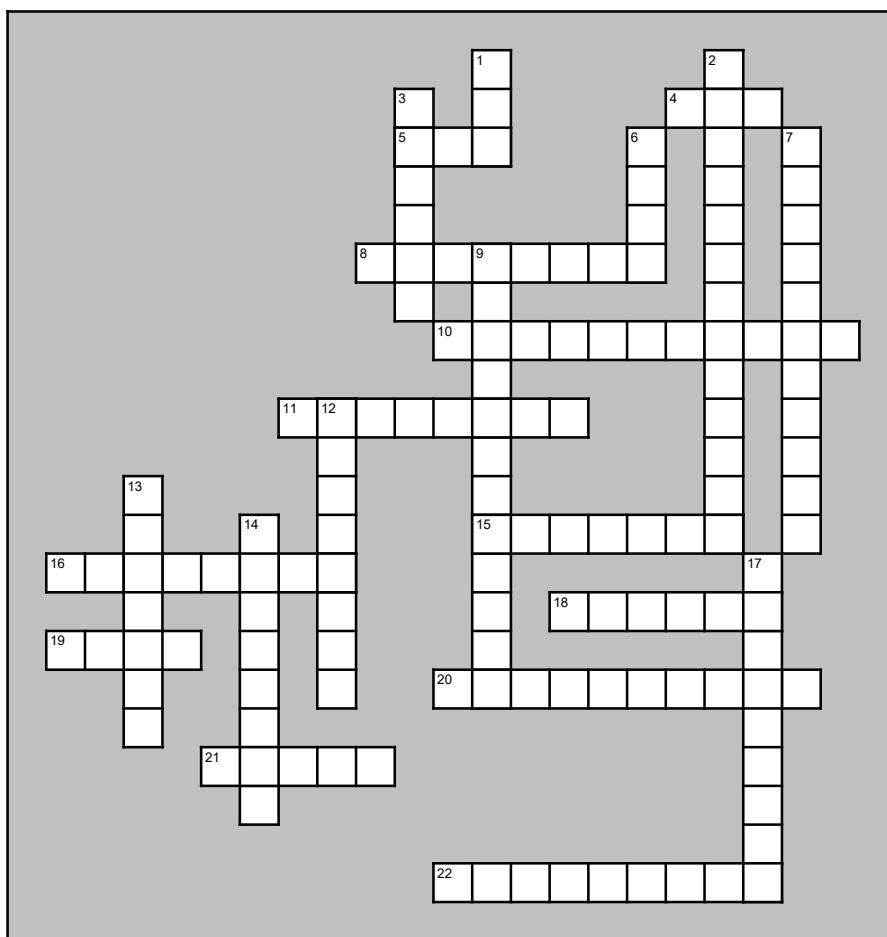


Crossword



Across

4. The ultimate source of hydropower.
5. Unit of electrical resistance. Inversely proportional to current when voltage is constant.
8. In most places, hydropower and windmills work best for this in order to supply excess demands or energy.
10. Electrical current that reverses direction when produced and transmitted. Travels greater distance than direct current.
11. Protects a dam from flooding, prevents erosion.
15. A machine that converts kinetic energy to mechanical energy by being rotated rapidly, e.g. by falling water.
16. Unit of electric power.
18. Unit of electrical current.
19. The difference in elevation between the headwater surface above and the tailwater surface below a hydroelectric plant.
20. System of transmission lines that allows different sources of electricity to be combined from various sources.
21. The renewable resource used in hydropower.
22. A machine that converts mechanical energy into electrical energy. Rotated by the turbine.

Down

1. A massive wall or structure built across a valley or river for storing water.
2. Used during times of low energy demand. Restores the level of "head" for hydropower.
3. Type of dam that diverts water or river flow so that another permanent dam can be constructed.
6. The amount of electric power delivered or required at any specific point or points on a system.
7. Hydropower that uses a dam to store water.
9. The unit of electrical energy commonly used in marketing electric power.
12. Component of hydropower that carries water from the reservoir to the turbines.
13. The potential energy of electricity in a system. Related to current and resistance. Figuratively speaking, voltage is based on how high a dam is ... the height at which water falls to generate electricity.
14. The minimum amount of energy used in a particular area which must be supplied by the grid system.
17. An artificial lake into which water flows and is stored for future use.