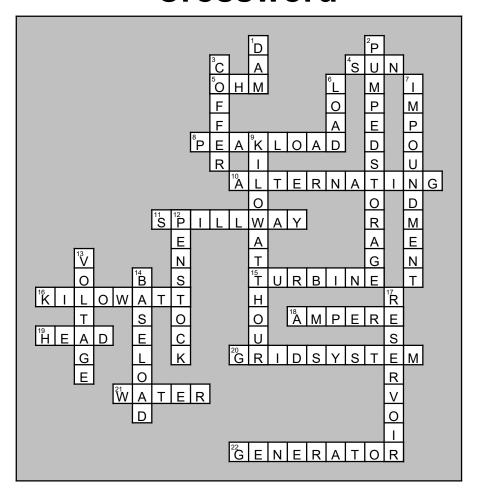
Crossword



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.
- 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.
- 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.
- Type of dam that diverts water or river flow so that another permanent dam can be constructed.
- The amount of electric power delivered or required at any specific point or points on a system.
- 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.
- The minimum amount of energy used in a particular area which must be supplied by the grid system.
- An artificial lake into which water flows and is stored for future use.