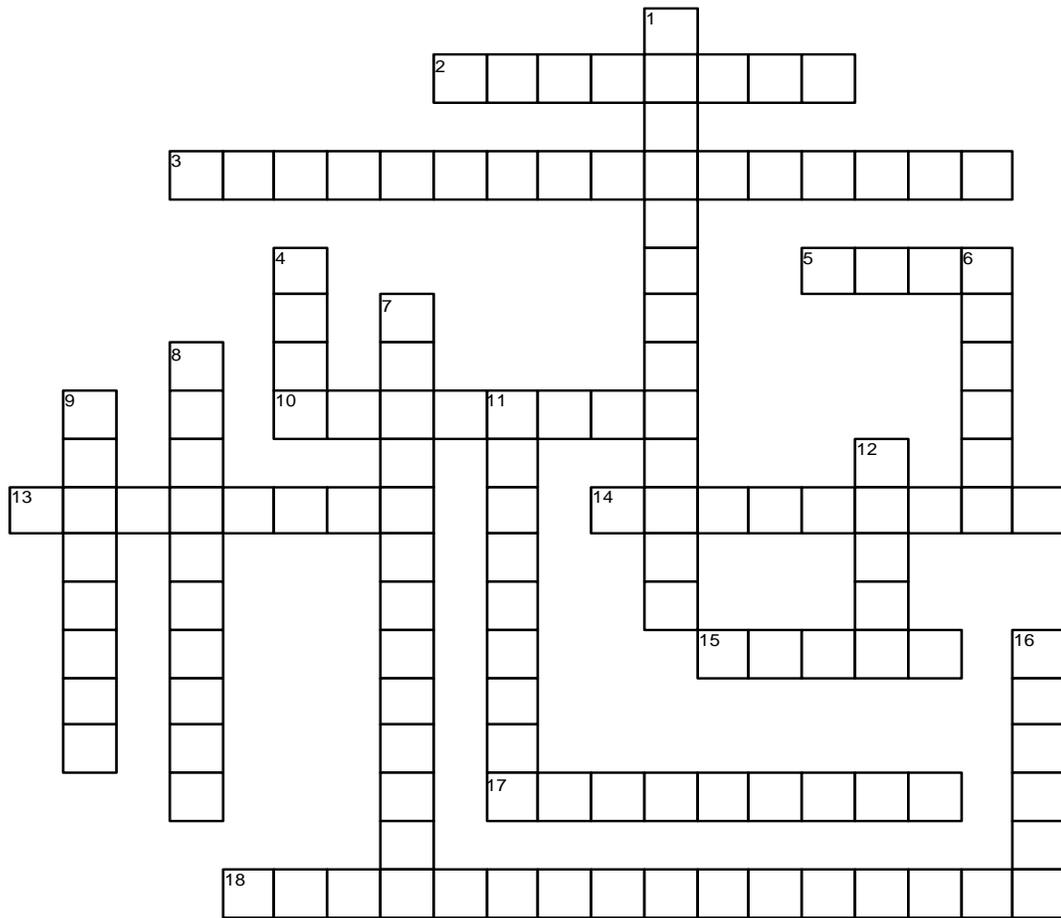


Energy and Power

Chapter 7



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ACROSS

- 2 The ____-____ is a unit of energy equal to a power of one watt operating for one hour.
- 3 _____ is defined as converting the energy of flowing water into the mechanical energy of a turbine to turn a hydroelectric generator to generate electricity.
- 5 A ____ is a basic unit of power. Power is the rate at which electrical energy is delivered to a circuit.
- 10 _____ is a measure of power.
- 13 The power formula, sometimes called _____, describes the relationship between power (P), voltage (E), and current (I).
- 14 _____ is the generation of electricity using air flow through wind turbines, which are mechanically powered generators driven by a large turbine blade.
- 15 _____ is defined as the rate of doing work or the rate at which work is being done.
- 17 A basic photovoltaic cell, also called a _____.
- 18 _____ ratio (EER) is a value representing the relative electrical efficiency of cooling equipment in the cooling season. EER is calculated by dividing cooling capacity in British thermal units per hour by the power input.

DOWN

- 1 _____ is the direct conversion of light into electricity at the atomic level.
- 4 ____ is defined as actually accomplishing movement when force (torque) is applied to an object.
- 6 _____ is the term used to describe a rotating force that may or may not result in motion.
- 7 _____-____ is a unit of energy.
- 8 _____ energy is energy derived from the heat of the earth.
- 9 Geothermal can be used in cold weather to warm the interior of a building and can be used in warm weather to cool the inside of a building using a geothermal ____.
- 11 _____ are an array of many individual wind turbines that are connected to the electric power transmission network grid.
- 12 One _____ is defined mechanically as being the energy transferred to an object by the mechanical work of moving it a distance of 1 meter with a force of 1 newton.
- 16 _____ is defined as the ability to do work. The sun is the source of energy for life on Earth.