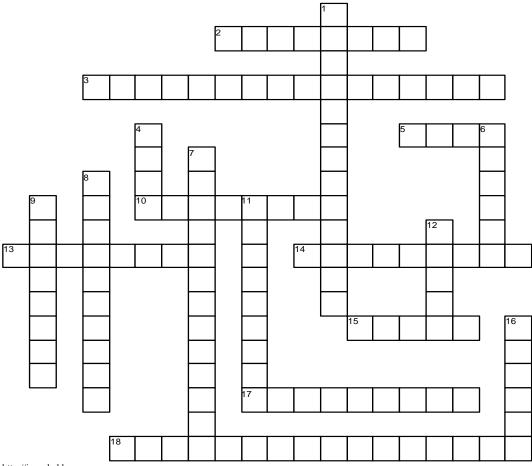
# **Energy and Power**

## 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. \_ 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. \_\_\_\_is a measure of power. 13 The power formula, sometimes called \_ describes the relationship between power (P), voltage (E), and current (I). \_\_\_\_\_is the generation of electricity using air flow through wind turbines, which are mechanically powered generators driven by a large turbine blade. \_ 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 \_ \_\_\_ 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 gird.
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.

