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The elements of the circuit (lights, heaters, motors, refrigerators, and even wires) convert this electric potential energy into other forms of energy such as light energy, sound energy, thermal energy and mechanical energy. Power refers to the rate at which energy is supplied or converted by the appliance or circuit.

Circuits and Circuit Elements

In a simple circuit (one with a single simple resistor), the voltage supplied by the source equals the voltage drop across the resistor, since, and the same flows through each. Thus the energy supplied by the voltage source and the energy converted by the resistor are equal. (See [link].)

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However, please be aware that circuit diagram conventions do differ among textbooks and subject fields, leading to different symbols being used for the same circuit elements. Example Circuit Element Symbols: A set of example circuit elements and

their associated symbols commonly used in circuit diagrams.
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