

33. Correct. The answer is true. Fuel is used to rotate the turbine and hence the generator shaft, which is the first step to generating electricity. As the shaft turns, wires rotate in a magnetic field inducing a current. As the shaft passes the positive and negative pole of the magnet, the current reverses, causing alternating current. The number of times the current (amps) reverses per second is called Hertz. Current in the U.S. is typically 60 Hz, whereas current in Europe is 50 Hz. Solar PV is an exception to these energy sources as it generates current by sunlight knocking off electrons.