

**27. Correct. The answer is false.** Geothermal energy resources range from shallow ground to hot water and rock several miles below earth's surface, and even farther down to the extremely high temperatures of molten rock called magma. For every 100 meters you go below ground, the temperature of the rock increases about 3 degrees Celsius. Or for every 328 feet below ground, the temperature increases 5.4 degrees Fahrenheit. Deep under the surface, water sometimes makes its way close to the hot rock and turns into hot water or into steam. The hot water can reach temperatures of more than 300 degrees Fahrenheit or 148 degrees Celsius and can be converted into electricity. (Source <http://www.energy.ca.gov/education/story/story-html/chapter04.html>). Earth's energy can be converted into heat and electricity. The three technology categories are geothermal heat pumps, direct-use applications, and power plants. (Source <http://www.eren.doe.gov/geothermal/geobasics.html>). If the temperature of the geothermal source is less than 300 degrees F, it can be used for direct heat.