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Energy With A Spin

The purpose of this experiment was to show that electricity could be generated from placing a mini hydroelectric turbine into the main waterline entering your house. To conduct this experiment, I built a mini hydroelectric plant complete with a turbine and generator. Part of the construction of the coils for the generator, called for measuring the resistance in the coils, which was done. Next I ran water from our kitchen faucet through the turbine to generate electricity. I had a multimeter connected to the generator to record the amps generated. If every home could generate some of its electricity from the water it is already using, the potential to save energy could be overwhelming. My results showed my hypothesis was supported; I was able to generate electricity with water from the kitchen faucet and my mini hydroelectric plant. Although, I did not generate the quantity of power that I was hoping to see. I built my mini hydroelectric plant to the specifications that I had. However, the materials called for in the design and the process could be greatly improved, which will increase the possible power generation by significant numbers