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Capturing the Energy

The purpose of last year's project was to obtain an understanding of wind turbines. This year's project is a continuation to find new information and to pursue the education and feasibility of renewable energy. The idea behind this experiment was related to unpredictable weather and how to store energy during unfavorable weather. The investigation was to determine if energy could be stored in a battery unit. This unit is designed for days when there is no wind to contribute to the turbine and cloudy days that prevent the solar panels from working to capacity. The procedure was conducted to determine whether a battery unit connected to a solar panel and a wind turbine would have adequate energy to power electrical devices in the model home and the light beacon on the turbine. The data gained from this experiment was the voltage that the solar panel collected from the artificial suns and real sun (in DC voltage). The heat lamp produced 2.2 volts, the sun produced 5.8 volts, and the incandescent light produced 1 volt. In the conclusion the batteries were capable of storing energy to produce enough power to light the beacon and the model home.