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The Effects of Wind Power

This experiment looks at the new idea of using wind to provide power for a small town. The area of origination for this experiment, Estes Park, is a very small town and would benefit greatly from being powered by 100% renewable energy. Not only would this be cost beneficial, but this would also be very beneficial for the environment. This experiment has looked at the costs of windmills, average electricity costs, and carbon emission information. A single, 10 kilowatt wind mill would cost about \$43,000. This would mean it would take nearly 50 years for the windmill to pay for itself. However, an industrial size windmill is equivalent to the power for 200 homes, and could pay for itself in 13.5 years, costing about \$2.5 million. It was discovered that the claims to wind mills killing of bird population is actually incredibly miniscule, contributing at most 40,000 of the one billion bird deaths caused by humans in the US Average carbon emissions from American households vary, based on type of power, but making the assumption of the use of coal power, the most common kind in America, the average family of four's home emits almost seven tons of carbon emissions. When using renewable energy sources, emissions are cut down by enormous amounts. It is hoped that this project will reveal new and encouraging evidence that may be able to convince people not only in our town, but all over the state or even the country to using renewable energy sources.