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*Maximizing Efficiency When Generating Clean Energy*

The purpose of this project was to determine which formation of wind turbines (1, 2, or 3) would generate the most energy. I hypothesized the pressure increase behind the turbines in formation three could cause the rotations per minute to be the highest. This experiment involved creating a gust of wind with a fan to move different formations of wind turbines for one minute. The rotations per minute were counted on a slow motion video of the experiment. The data collected did not support the original hypothesis. These findings led to the conclusion that the formation of wind turbines (1, 2, 3) did cause a change in rotations per minute. Formation 3 with an average of 907 rotations per minute had the highest rpm when compared to formation one (641 rpm) and formation two (463 rpm); therefore, it is reasonable to conclude that when comparing different formations of wind turbines, formation three had a higher rpm compared to other formations.