Faster Than Wind!

Mero, Olivia (School: Moriah Central School)
Mero, Jaden (School: Moriah Central School)

In today's society, saving energy is a top priority. Why use harmful greenhouse gases that contaminate our atmosphere when clean energy is right at our fingertips? We just need to find a way to maximize this energy and use it to replace the harmful energy that is slowly deteriorating our planet. Wind energy is a harmless and sufficient way of retaining energy in a clean way. With the use of propellers, wind can create pressure and lift that later can be converted into electricity due to aerodynamic force. Now the question is, what propeller works best? After conducting a series of trials, testing the speeds of three different propellers and comparing the outcomes of each to a constant speed that we acquired, we came to a conclusion. After seeing how great the 8-blade propeller ran due to its many blades and the oval propeller due to its size and shape, we decided a propeller with a large circumference and multiple blades all in the shapes of ovals would maximize the amount of wind energy conducted.

Awards Won: