

This project utilizes a small-scale wind tunnel to investigate the effects that how modifying the width of a flange on a diffuser augmented wind turbine has on affects the wind speed and the voltage output from the turbine. There were a total of 5 flange widths tested, including a shroud without a flange and 4 shrouds with widths increasing by about _ cm per flange, starting at 2.01cm and going to 3.53 cm.