

# Module 3 Assignment 1

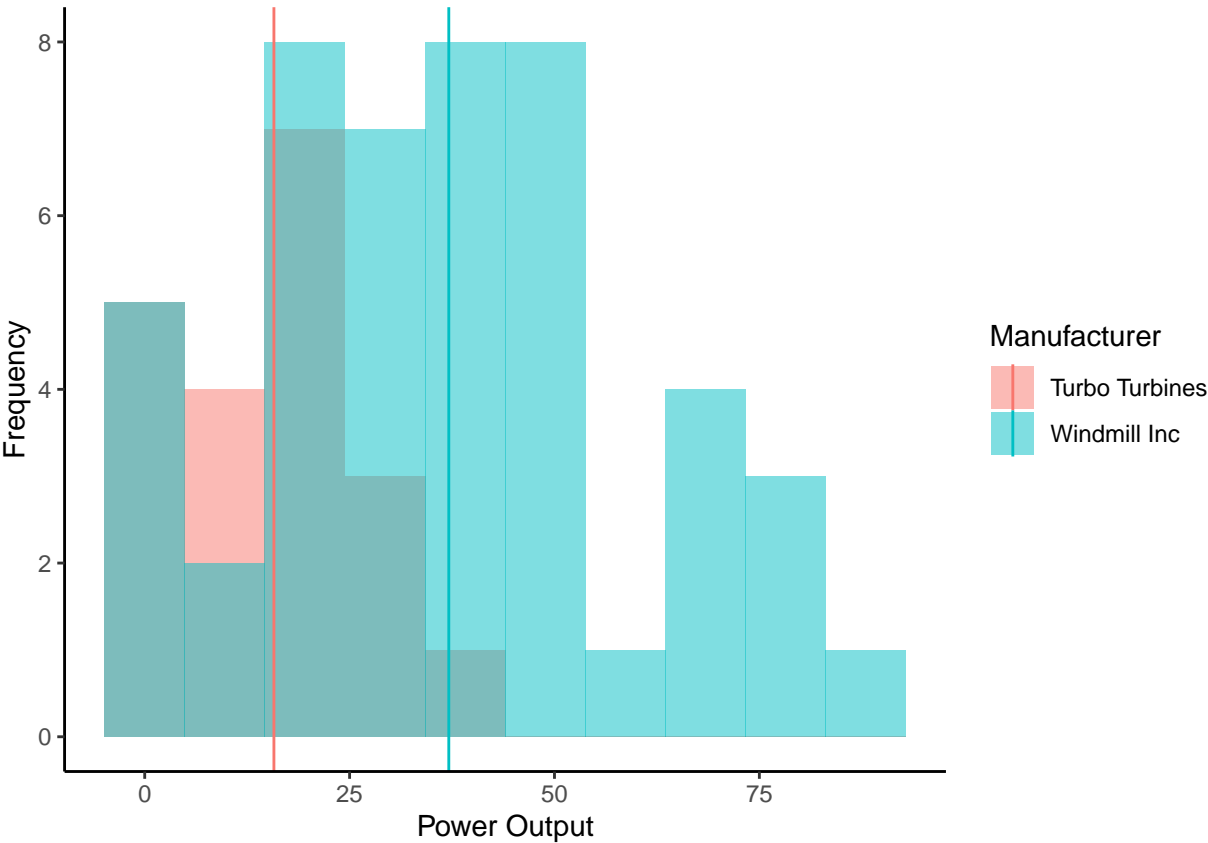
Ellen Bledsoe

2023-03-23

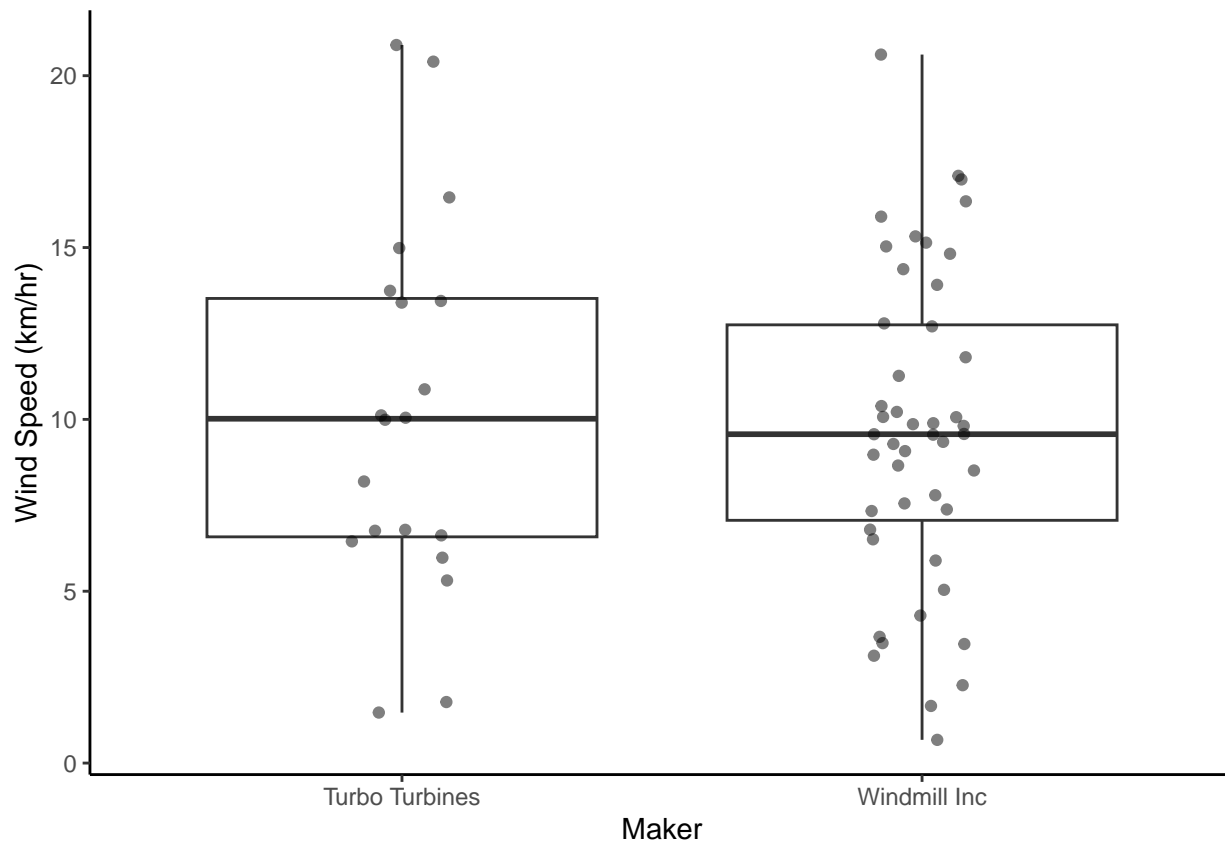
2.

```
## # A tibble: 2 x 3
##   manufacturer mean_wind_speed mean_power
##   <chr>          <dbl>      <dbl>
## 1 Turbo Turbines      10.2       15.8
## 2 Windmill Inc        9.66       37.1
```

3.



4.



7.

```
##
## Welch Two Sample t-test
##
## data: power_output by manufacturer
## t = -5.2832, df = 62.905, p-value = 1.686e-06
## alternative hypothesis: true difference in means between group Turbo Turbines and group Windmill Inc
## 95 percent confidence interval:
## -29.40840 -13.26639
## sample estimates:
## mean in group Turbo Turbines    mean in group Windmill Inc
##                15.76615                37.10355
```

9.

```
##
## Welch Two Sample t-test
##
## data: wind_speed by manufacturer
## t = 0.38194, df = 31.02, p-value = 0.7051
## alternative hypothesis: true difference in means between group Turbo Turbines and group Windmill Inc
## 95 percent confidence interval:
## -2.290743  3.346450
## sample estimates:
## mean in group Turbo Turbines    mean in group Windmill Inc
##                10.185139                9.657286
```