Module 3 Assignment 1

Ellen Bledsoe

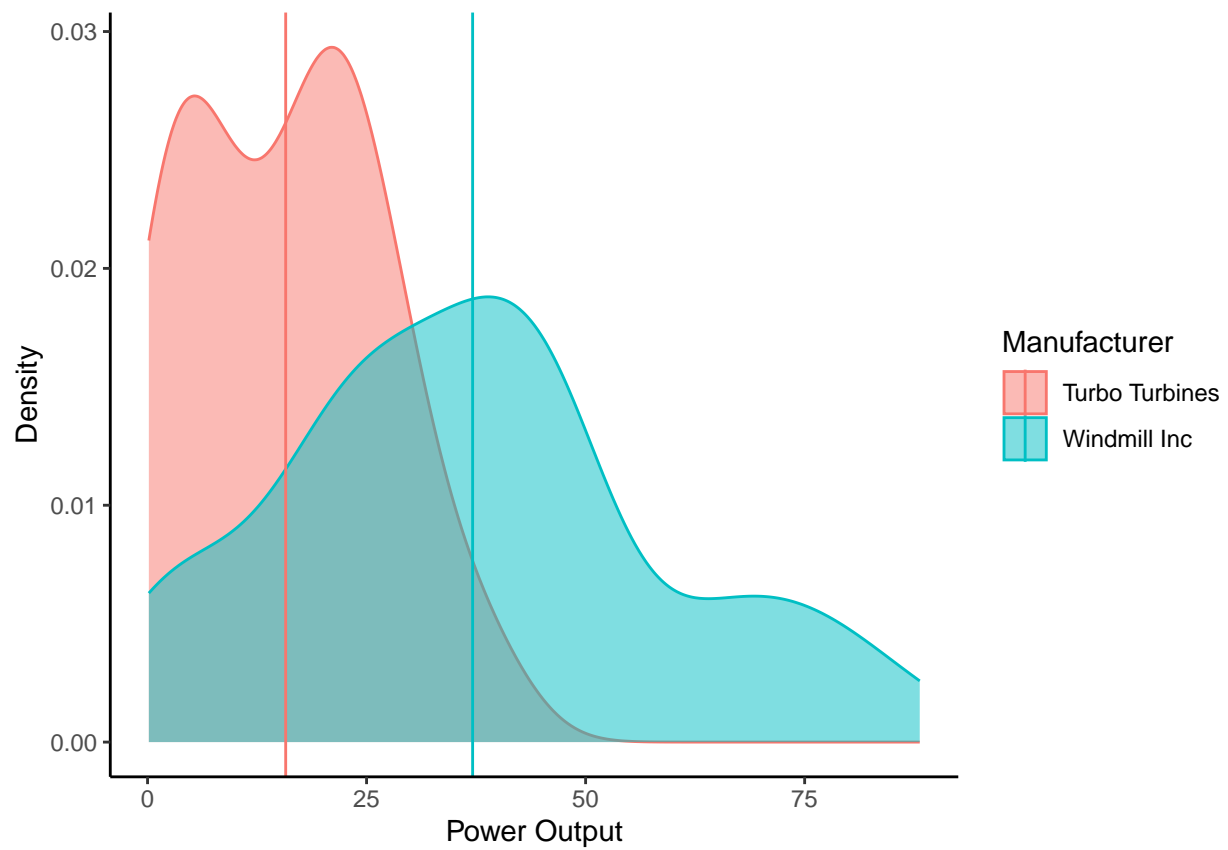## 2023-03-23

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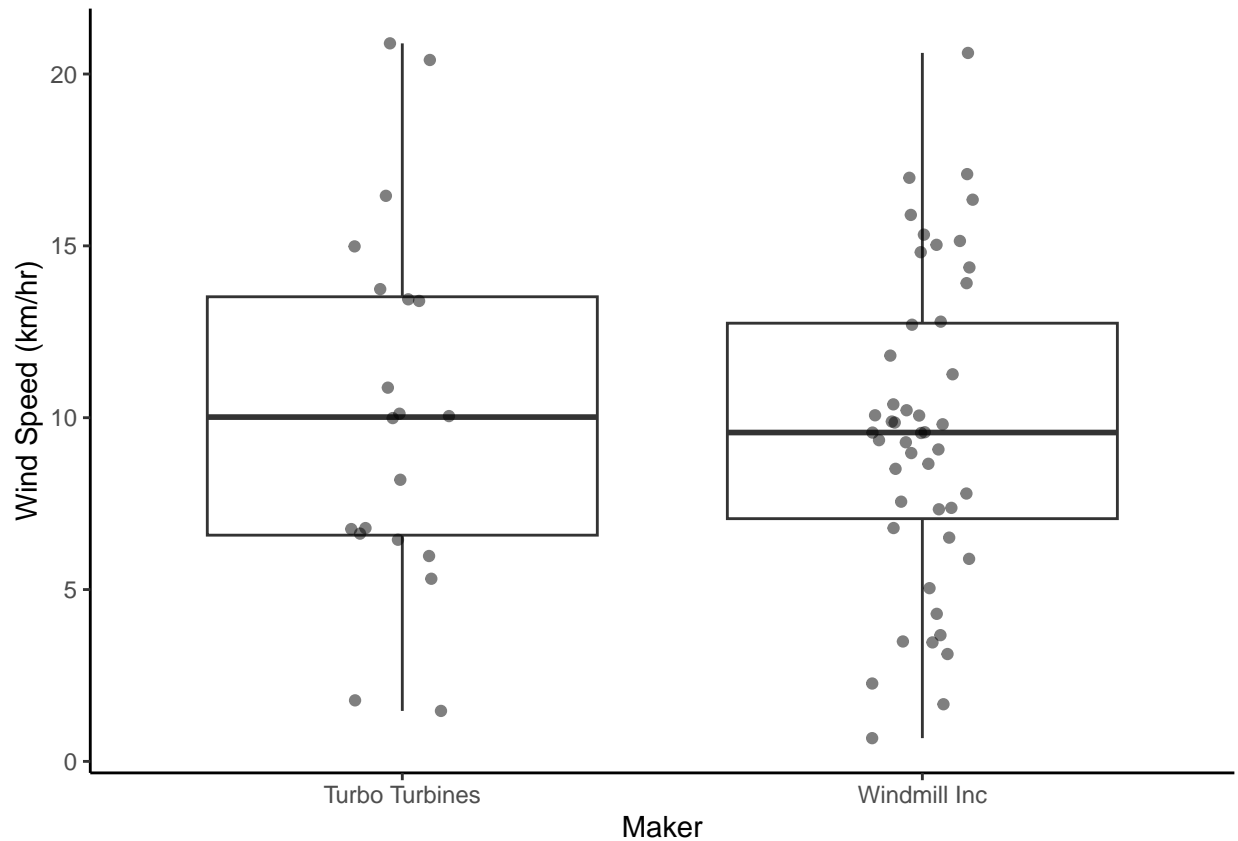
```
## # A tibble: 2 x 3
##   manufacturer   mean_wind_speed mean_power
##   <chr>                    <dbl>      <dbl>
## 1 Turbo Turbines            10.2       15.8
## 2 Windmill Inc               9.66      37.1
```

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
```