

**ASSIGNMENT 4: Wind Power Redesign [60 points total]**

	<i>Excellent</i>	<i>Good</i>	<i>Needs work</i>	<i>Points</i>	<i>Comments</i>
<b>Data cleaning</b> <i>10 points</i>	10, 9 – Data are read in and modified such that all variables are properly encoded and appropriately named. – Description is accurate, informative, and detailed.	8, 7, 6 – Data are read in and modified such that most variables are properly encoded and appropriately named. – Description is accurate but incomplete.	5, 4, 3 – Data are read in but some variables are not properly encoded. – Description is poor or missing.		
<b>Data summary</b> <i>10 points</i>	10, 9 – Measures of centrality and variability in appropriate variables are computed. – At least two new useful measures are computed. – Description is accurate and informative.	8, 7, 6 – Measures of centrality and variability in appropriate variables are computed. – At least one new useful measure is computed. – Description is accurate but only mildly informative.	5, 4, 3 – Measures of centrality / variability are missing. – Fail to compute new useful measures. – Description is poor or missing.		
<b>Data visualizations</b> <i>20 points (10 each)</i>	10, 9 – Charts expertly demonstrate the best practices of visual design and convey a clear message. – Charts are functionally accurate and are generally easy to understand.	8, 7, 6 – Charts generally demonstrate best practices of visual design. – Although accurate, there are some elements that may be confusing.	5, 4, 3 – Charts generally lack best practices of visual design. – Elements are confusing.	Viz 1:  Viz 2:	
<b>Analysis description</b> <i>10 points</i>	10, 9 – Informative description of the design flaws in the original chart and the improvements the revised charts make to correct them. – Clear description of the messages revised charts communicate.	8, 7, 6 – Description of one or two of the design flaws in the original chart and the improvements the revised charts make. – Description of the messages of revised charts is accurate but incomplete or mildly informative.	5, 4, 3 – Poor description of the design flaws in the original chart and the improvements made in revised charts. – Description of messages of revised charts is poor or missing.		
<b>Technical things</b> <i>10 points</i>	10, 9 – All code runs without errors. – All code and data are included in the submitted .zip file. – Analysis is fully reproducible (i.e. .Rmd file compiles).	8, 7, 6 – Code has only one or two errors. – All code and data are included in the submitted .zip file.	5, 4, 3 – Code has multiple errors. – Submitted .zip file is missing key components to be able to reproduce the analysis.		

**Total:**