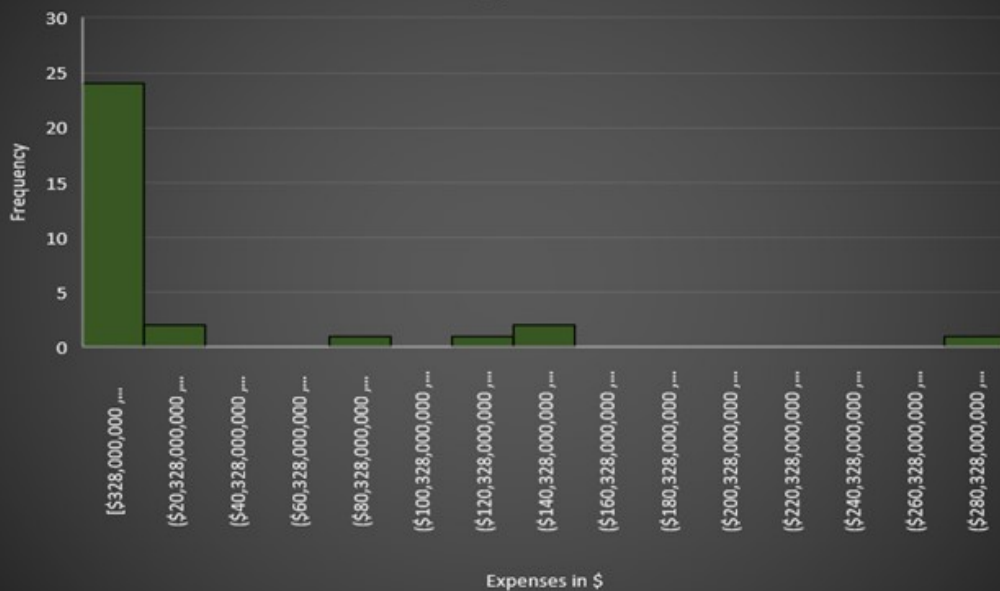
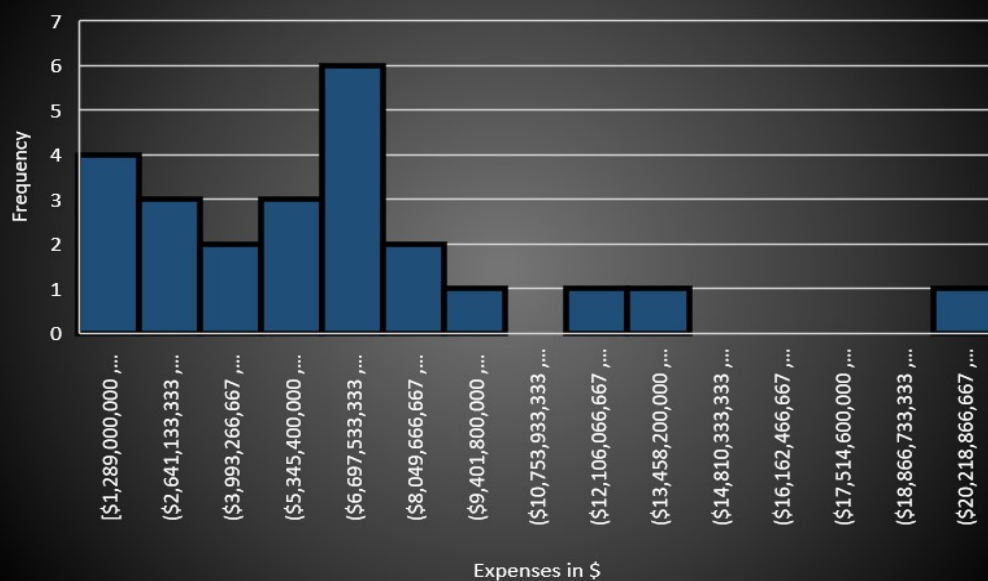


Are the year 2 costs of goods and services similar between the Energy and Utility sectors?

COG's in Energy Sector - Year 2



COG's in Utility Sector - Year 2



Attached here are two charts to visualize the varying amounts spent on the costs of goods and services (COG' s) in both the Energy and the Utility sectors for year 2.

Both sets of data are right skewed showing that the mean for each would be higher than the median. With that being said, within the utility sector the spread for is slightly less right skewed.

The mean for the Energy Sector (\$31,473,246,484) was significantly higher than that of the Utility Sector (\$6,788,264,125), this shows that on average the energy sector spends more on COGS than the Utility industry does. The median for the Energy sector is \$3,317,000,000 compared to the median for the Utilities sector at \$6,590,650,000, this is shown in the deviation of shape in the histograms and illustrates that 50% of the utilities sector spends more on COG' s than 50% of the energy sector and that the average is increased as much as it is due to extreme outliers in spending.

The standard deviation for the energy sector (\$45,768,936,176) shows a higher variability in amounts spent on COGS compared to the utilities sector (\$6,590,650,000). The ranges reflect similarly with energy having a range of \$77,817,372,816 difference between the highest and lowest amount spent in comparison with the utility range of \$20,282,000,000.