Pole mount assignment:

Using the online calculator from Altestore ( <https://www.mtsolar.us/top-of-pole-mount-calculator/> ) input various conditions and record the calculated outputs. This assignment is designed to have students work in groups of two. Each group will make one variable change and then present their findings to the class.

* The variables are the following:
  + Panel widths 60 or 72 cell (96 is same as 60)
  + How many panels to be mounted
  + Angle of the panel(s)
  + Height above the ground
  + Wind speed
  + Wind category
  + Foundation shape
  + Foundation diameter
  + Foundation depth
  + Soil type (5)

Each group gets to pick one of the variables to make the controlled variation. They must also vary the other inputs to identify at what point is the controlled variable not relevant to the output.

* The outputs that are calculated are:
  + Number of poles
  + Support pole size
  + Frame type
  + Spin prevention bolts
  + Foundation depth
  + Yards of concrete

This assignment will allow the students to understand the limits for each input.