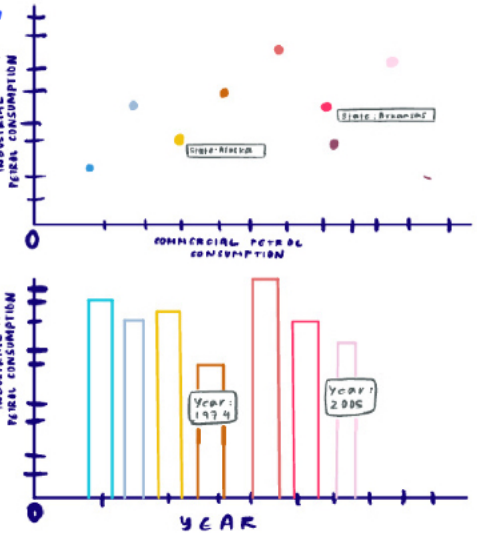
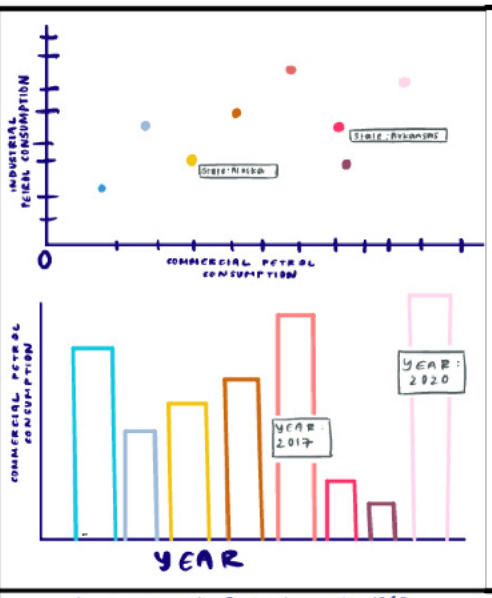
COMMERCIAL/INDUSTRIAL PETROLEUM & SOLAR THERMAL ENERGY CONSUMPTION (in billion BTU)

Visualization A

Visualization A shows a scatterplot with the Industrial Petrol Consumption on the Y axis and the Commercial Petrol Consumption on the X axis. Each "State" datapoint on the scatterplot is coordinated with a histogram where each bar represents a year, and the Y axis had the amount of industrial petrol consumed.



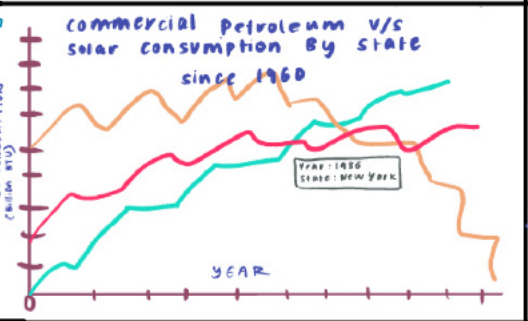


Visualization B

Visualization B shows a scatterplot with the Industrial Petrol Consumption on the Y axis and the Commercial Petrol Consumption on the X axis. Each "State" datapoint on the scatterplot is coordinated with a histogram where each bar represents a year, and the Y axis has the amount of commercial petrol consumed.

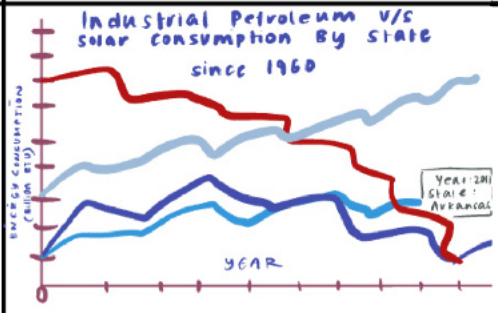
Visualization C

Visualization C is a line graph that shows commercial petrol consumption versus commercial solar consumption by state for every state in the U.S



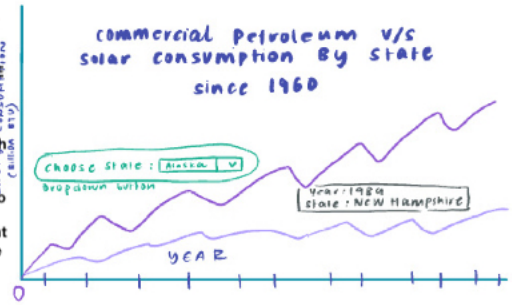
Visualization D

Visualization D is a line graph that shows industrial petrol consumption versus industrial solar consumption by state for every state in the U.S



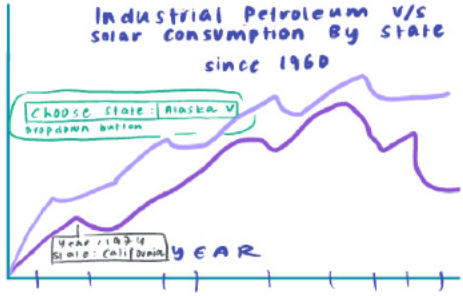
Visualization E

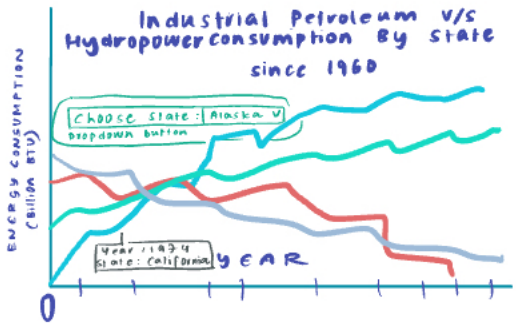
Visualization E is essentially the same graph as above, but with a dropdown button that allows users to select what state they want to see the line graph for



Visualization F

Visualization F is essentially the same graph as above, but with a dropdown button that allows users to select what state they want to see the line graph for





Visualization G

Visualization G is a new graph that we have added to this new iteration of the project. It is essentially the same graph as visualization E or F, but instead of solar energy consumption we are investigating with hydropower.

Originally in the prototype, we only decided to highlight commercial/industrial petroleum consumption and solar energy consumption, instead of other variables because we wanted our prototype to focus solely on the trends related to one non-renewable energy source and one renewable energy source. However, in this iterated version we are also incorporating hydropower to investigate the relationship of petroleum

However, in this iterated version we are also incorporating hydropower to investigate the relationship of petroleum with another renewable energy source.

A design related choice we chose to make was to include one pair of graphs that show the industrial and commercial petroleum versus solar consumption levels for all states in one view (visualizations C and D). We then included a version of these graphs where one can use a dropdown menu to choose to see data for a specific state (visualizations E and F).