Project Plan

Structure:

* Research Phase 1
* Research Phase 2
* Code

1: Research Phase 1:

* Research for sustainability fair, Roosevelt High School.

2: Introduction:

* Basic introduction to carbon footprints.

2: Greenhouse Gases:

* Radiative Forcing
* Global Warming Potential (GWP)
* Carbon Dioxide Equivalent (CO2e)

2: “How Bad are Bananas”:

* Read and take notes.
* Short report summarizing contents.
* Database of the carbon footprints of various items and processes in a Jupyter notebook.

2: Measuring Methodology:

* Research on current prominent methods that attempt to measure the carbon footprints.
* Identify flaws of methods researched on.
* Write a report summarizing and concluding research.

2: City Analysis:

* Identify and Assess the main causes of carbon footprints in prominent regions such as cities.

2: Conclusion:

* Write a conclusion summarizing the project.

1: Research Phase 2:

* Research needed for creating program to calculate carbon footprint of a city.

1: Code:

2: Carbon Footprint Database:

* Create a small database that prints and graphs the carbon footprint and carbon path of several items. (Ideally, the database would be able to search for the input data online.)

2: Carbon Footprint of a City:

* Create a program that calculates the carbon footprint of a city using both the process analysis and input-output approach.
* Include code both in a Jupyter Notebook and typical Python script.

3: Process Analysis:

3: Economic Input-Output: