# Project Summary

The focus of this project is looking at electricity generation and emissions to see if there is a relationship with temperature and air quality by region in the US. Our rationale is that with climate change, our transition from coal to cleaner fuels and our changing EPA rules we should see some interesting trends over these last few years. Questions we are hoping to answer include: is our air getting cleaner, are different parts of the country faring better or worse, is there a relationship between emissions and temperature?

# Links to the Datasets

|  |  |  |
| --- | --- | --- |
| Source | Link | Description |
| Kaggle – EPA | [Kaggle EPA Air Quality](https://www.kaggle.com/epa/epa-historical-air-quality) | Air quality measures by state and year (1990-2018) |
| EIA (US Energy Energy Administration) | [EIA Heating and Cooling Degree Days](https://www.eia.gov/outlooks/steo/data/browser/#/?v=28&f=A&s=&start=1997&end=2019&id=&map=&ctype=linechart&maptype=0&linechart=ZWCDPUS~ZWHDPUS~ZWHD_SAC~ZWHD_ESC~ZWHD_WSC~ZWHD_MTN) | Temperature information by region and year (1990-2018) |
| EIA (US Energy Energy Administration) | [EIA Power Generation, Emissions and Consumption](https://www.eia.gov/electricity/data.php) | Plant generation, consumption and emissions by state and fuel type. (1990-2018) |
| EIA (US Energy Energy Administration) | [EAI Greenhouse Gas Data](https://www.epa.gov/ghgreporting/ghg-reporting-program-data-sets) | Greenhouse gases by state and year (2010-2018) |

# Inspiring Visualizations

A close up of a map

Description automatically generated

Figure - Interactive Graphic on Map

A close up of text on a white background

Description automatically generated

Figure - Sweet Sankey chart of fuel to emissions

A screenshot of a cell phone

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Figure - Combined line bar chart for temps and air quality

# Sketch of Final Product

A screenshot of a cell phone

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# Link to Github

<https://github.com/fpwirth/Data-Analytics-Project-2>