DataSet1: EIATotalEnergyPricesByState.csv

Converted to prices\_df and pivoted on state and year so that each row represents a state for one year and has all price values as columns.

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 1612 entries, 0 to 1611

Data columns (total 9 columns):

# Column Non-Null Count Dtype

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0 Year 1612 non-null int64

1 State 1612 non-null object

2 TotalEnergyPriceTransportation 1612 non-null float64

3 TotalEnergyPriceCommercial 1612 non-null float64

4 TotalEnergyPriceIndustrial 1612 non-null float64

5 TotalEnergyPriceResidential 1612 non-null float64

6 TotalEnergyPrice 1612 non-null float64

7 TotalEndUseEnergyPrice 1612 non-null float64

8 Unit 1612 non-null object

dtypes: float64(6), int64(1), object(2)

sample line graph of one column from dataset with year and state info:

A graph of energy prices

Description automatically generated

DataSet2: EIARenewablesByState.csv

Converted to renewables\_df and pivoted on state and year so that each row represents a state for one year and has production and consumption values as columns.

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 1612 entries, 0 to 1611

Data columns (total 14 columns):

# Column Non-Null Count Dtype

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0 Year 1612 non-null int64

1 State 1612 non-null object

2 BiofuelsProduction 1612 non-null float64

3 BiomassConsumption 1612 non-null float64

4 GeothermalProduction 1612 non-null float64

5 GeothermalConsumption 1612 non-null float64

6 HydropowerConsumption 1612 non-null float64

7 HydropowerProduction 1612 non-null float64

8 SolarConsumption 1612 non-null float64

9 SolarProduction 1612 non-null float64

10 WoodWasteProduction 1612 non-null float64

11 WindConsumption 1612 non-null float64

12 WindProduction 1612 non-null float64

13 Unit 1612 non-null object

dtypes: float64(11), int64(1), object(2)

sample line graph of one column from dataset with year and state info:

