

DataSet1: EIA Total Energy Prices By State.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.

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<class 'pandas.core.frame.DataFrame'>
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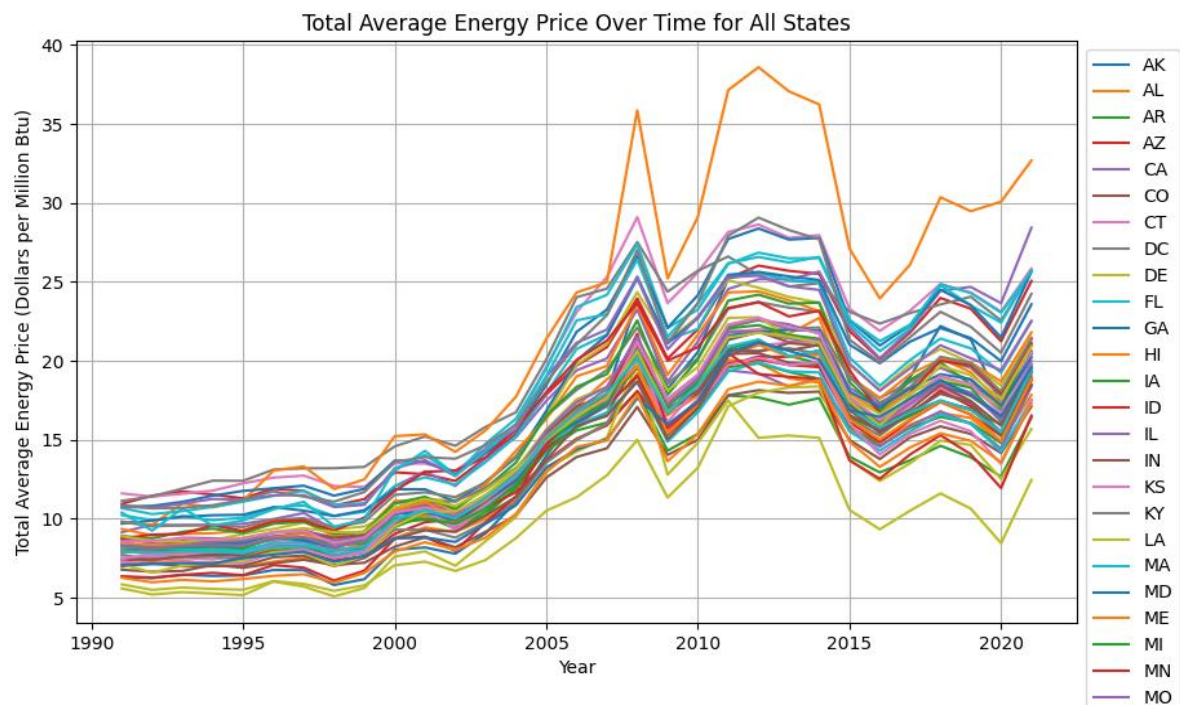
RangeIndex: 1612 entries, 0 to 1611

Data columns (total 9 columns):

| # | Column | Non-Null Count | Dtype |
|---|--------------------------------|----------------|---------|
| 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:



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 |
|----|-----------------------|----------------|---------|
| 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:

