

Energy production and consumption in the United States

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Sudarsan and I are interested in exploring energy production and consumption in the United States. Some topics which we hope will be illuminating are:

- the costs of energy generation from various energy sources (e.g. natural gas, oil, coal) over time
- sector-specific (e.g. manufacturing, personal, transportation) breakdowns of energy use on a state/national level over time
- how much various energy sources contribute to overall energy consumption on a state/national level over time
- imports of fossil fuels (e.g. natural gas, oil, coal) over time
- fossil fuel reserves left per state
- estimated cost of extraction of fossil fuel reserves
- cost of transporting fossil fuels over time
- investment/subsidization of renewable energy industries over time
- analysis of the impact of climate events on energy prices
- reliability of energy infrastructure

One data source which we identified early on is the Energy Information Administration (EIA), which collects and makes publicly available data on the above topics. The World Bank and Department of Energy also have less focused (from our perspective) but still relevant datasets. By analyzing and visualizing these data, we hope to achieve a better understanding of contemporary energy production and consumption patterns in the United States.