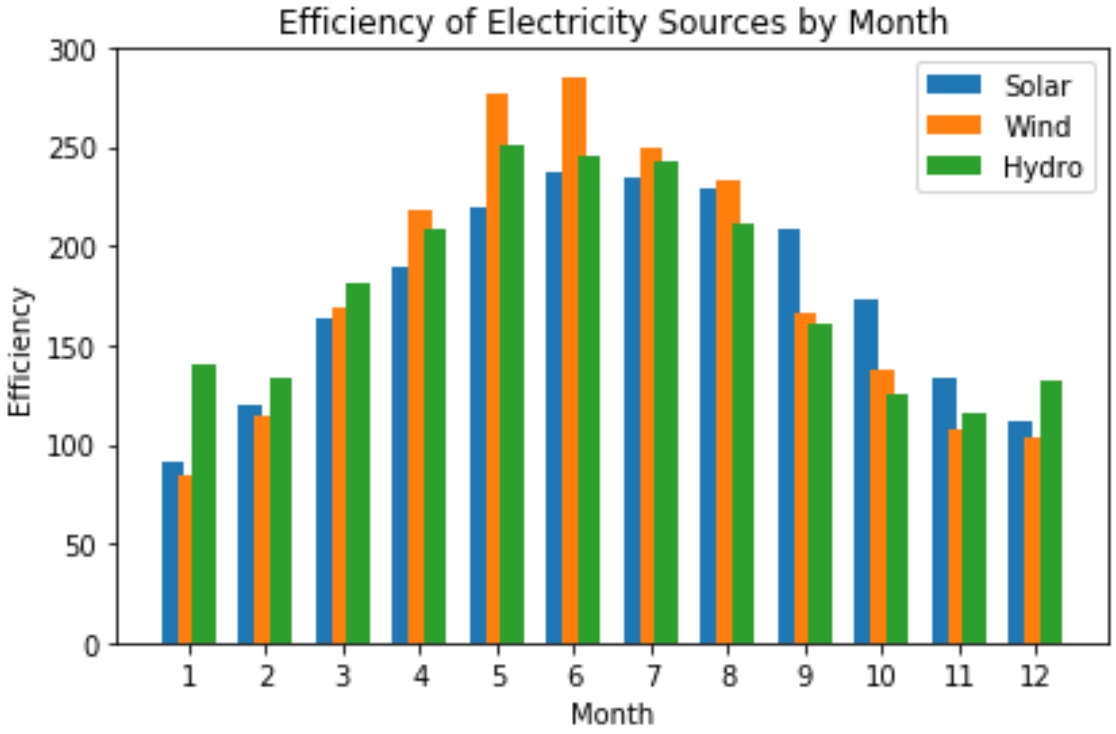
Prediction of the Efficiency of Energy Generation from Renewable Sources

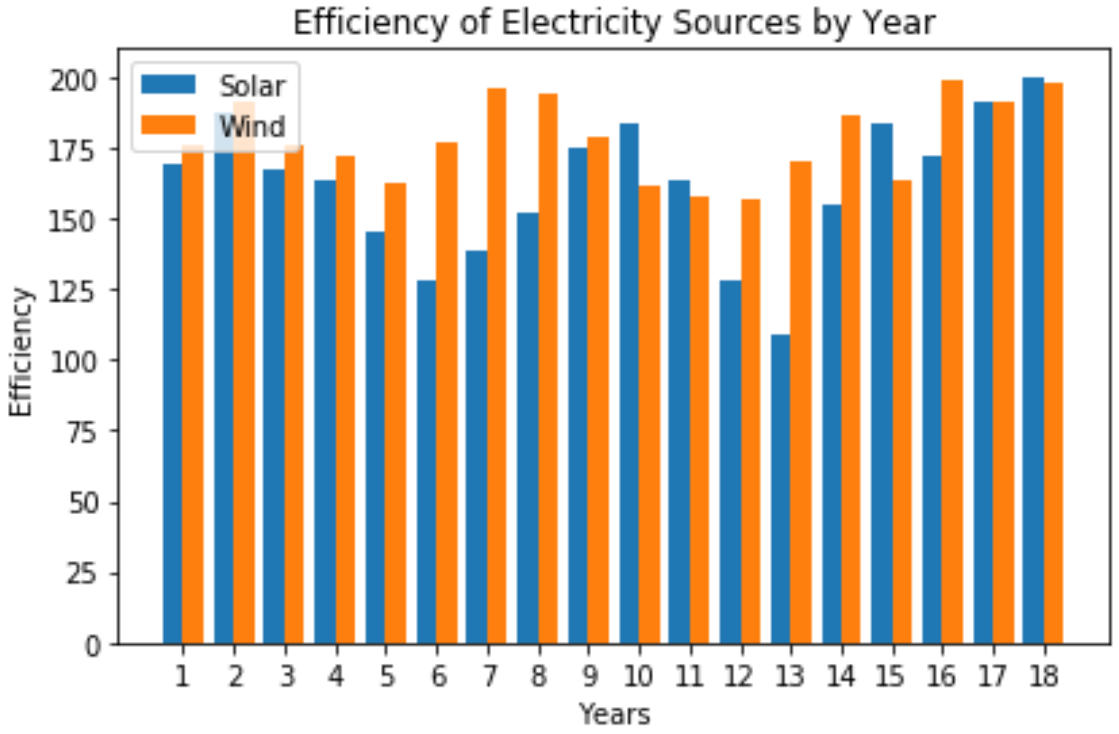
Michael Humbert

Introduction

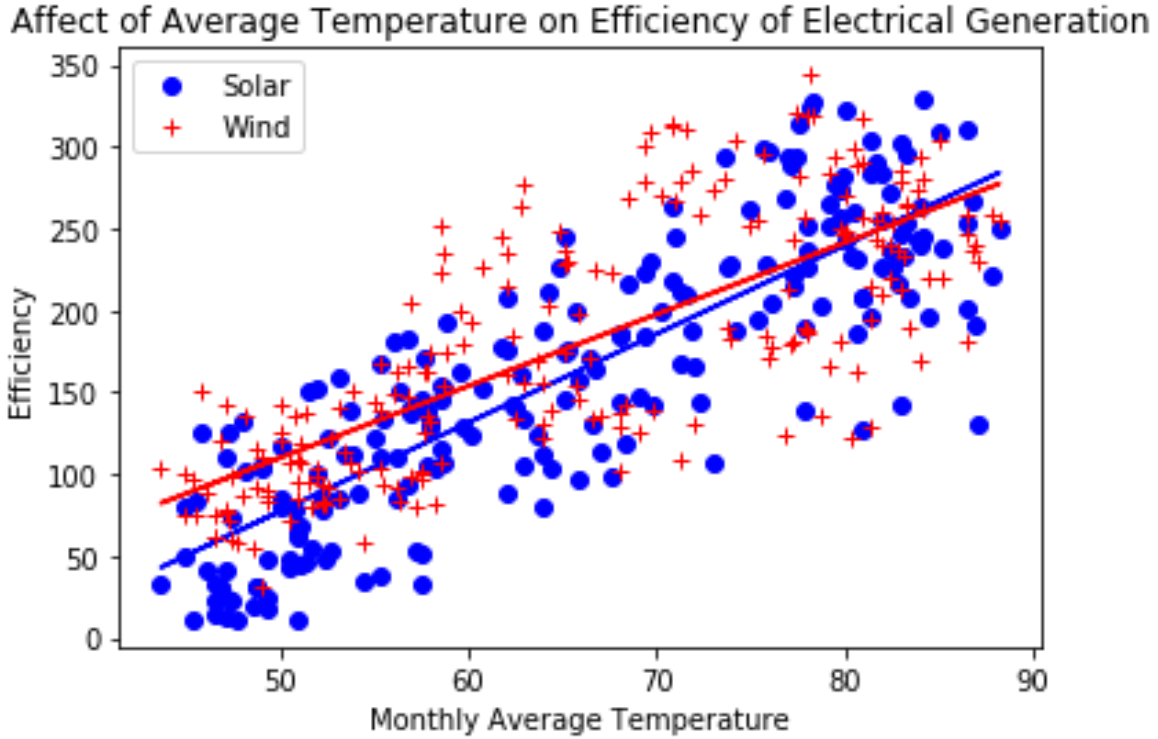
- Renewable energy is a necessity for a sustainable future
- Production from renewable energy sources is highly variable
- Energy can be purchased and stored during periods of high production/low demand to be sold in periods of low production/high demand

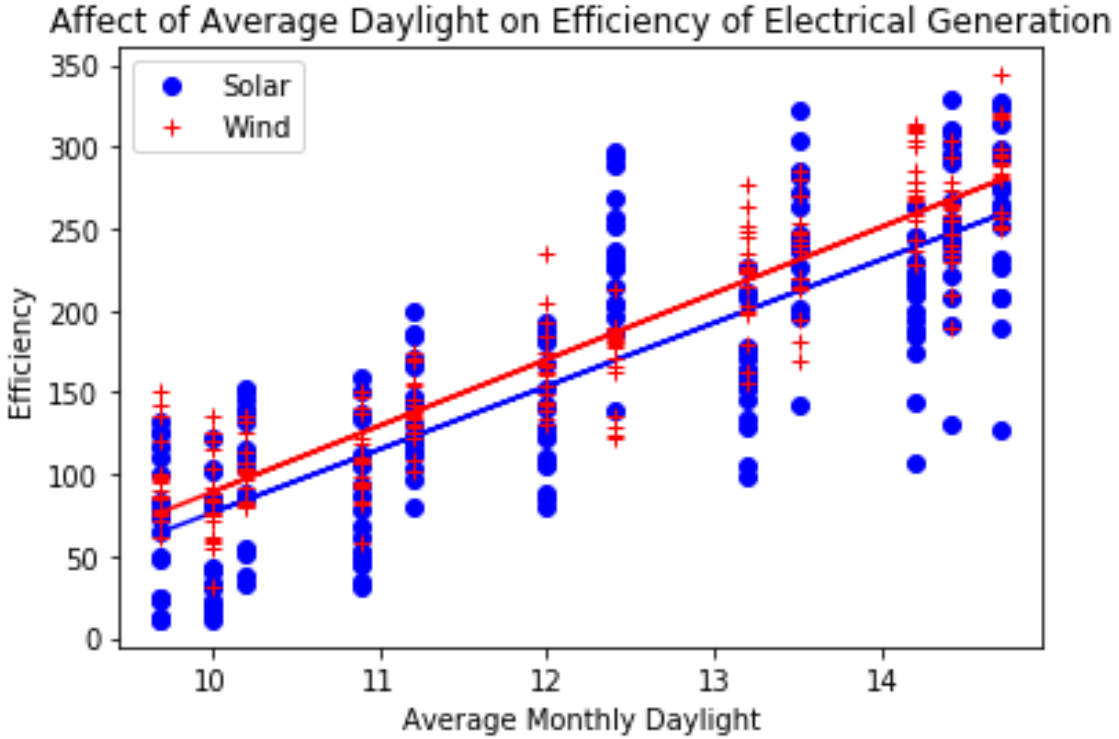
California Energy Production over Time



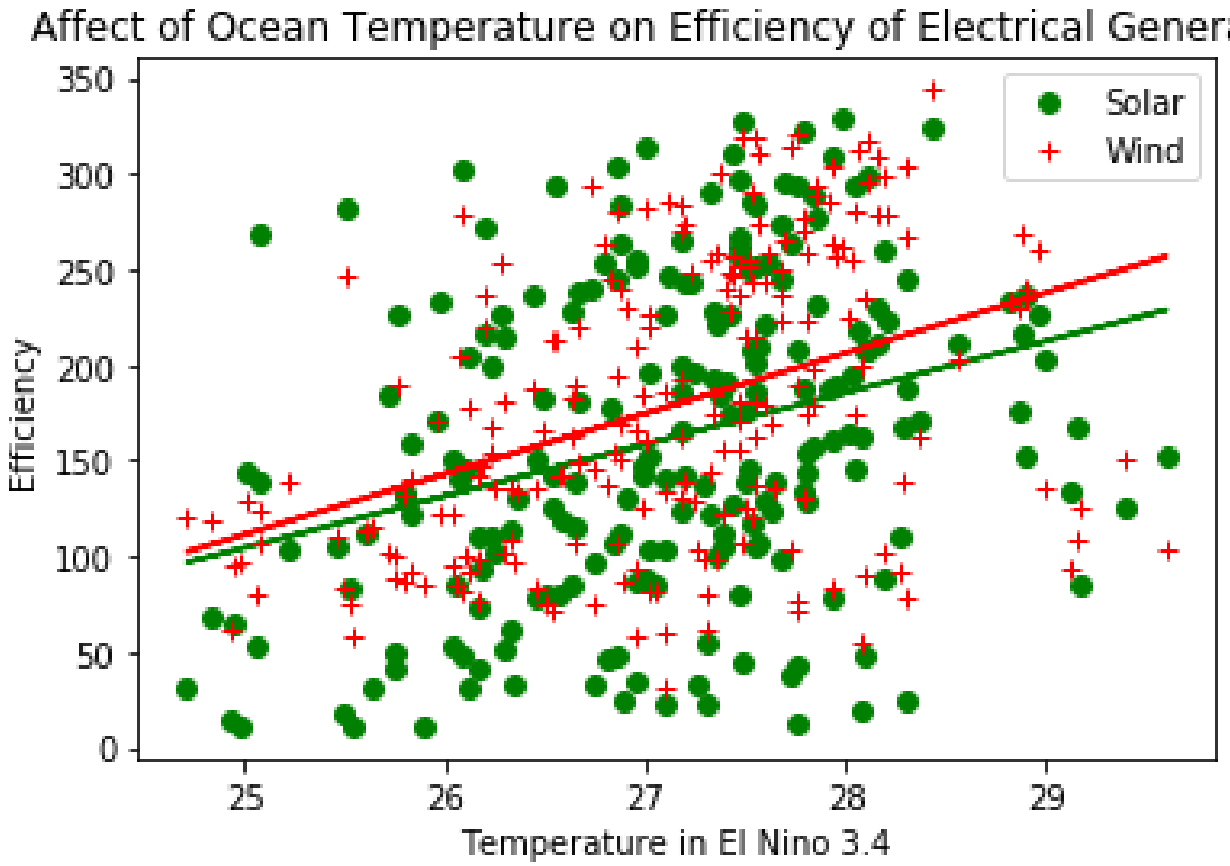


Possible Explanations for Monthly Differences





Possible Explanations for Yearly Differences



- Other possible data sources
  - Wildfires
  - Pollution