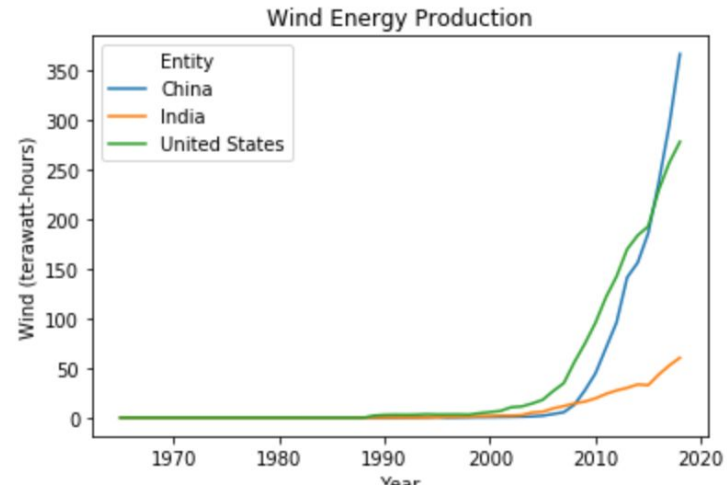
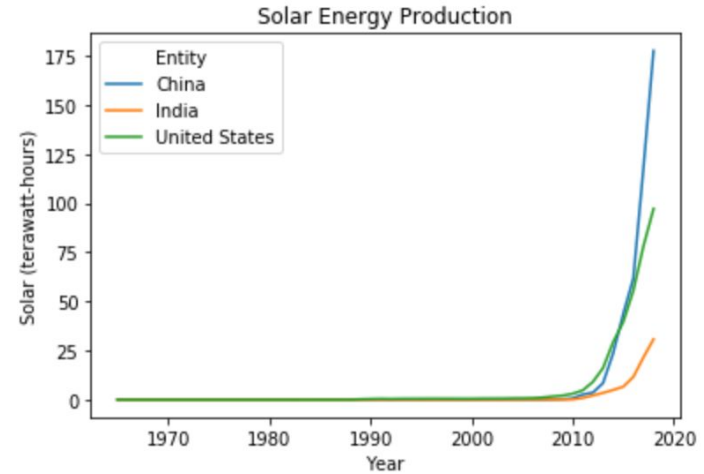


Analysis of Solar and Wind Energy Production in the Top 3 Energy Consuming Countries



Background Information

- Demand for renewable energy increasing immensely
- Solar and wind energy specifically had exponential growth in production

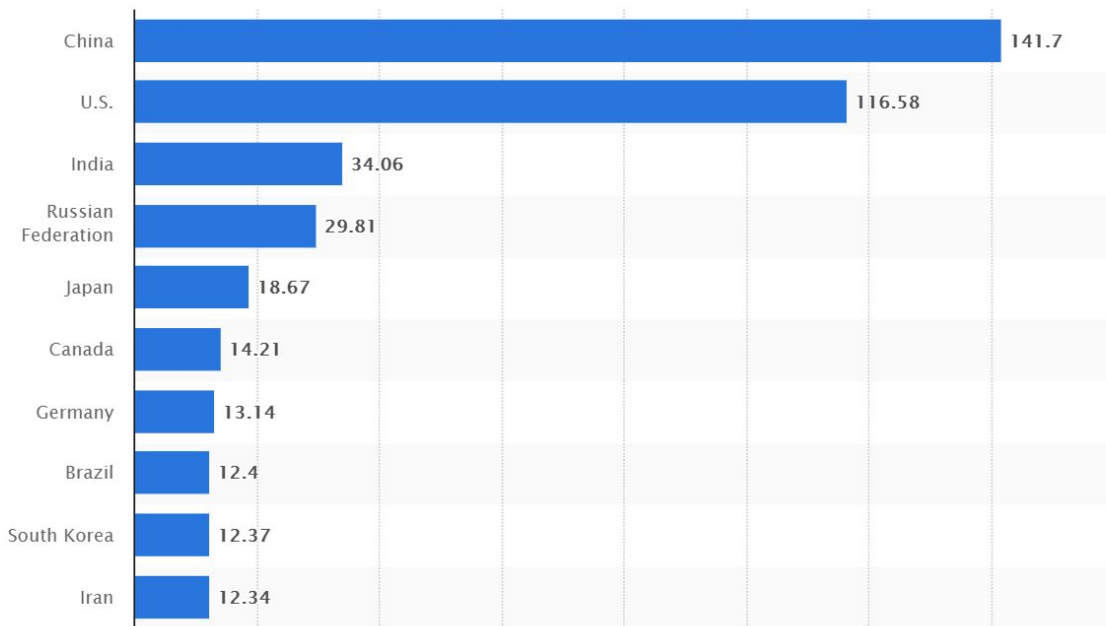




Overview

- In 2019 the top three energy consuming countries were China, U.S, and India
- Is there a significant difference in solar and wind energy production between the top 3 countries?

2019 Top 10 Energy Consuming Countries
(exajoules)





About the Data

- Production of renewable energy sources including hydropower, solar, wind, geothermal and modern biofuel
- 99 different countries with data from 1965 to 2018
- [Link to data set](#)
 - Data obtained from [BP's Statistical Review of World Energy](#)

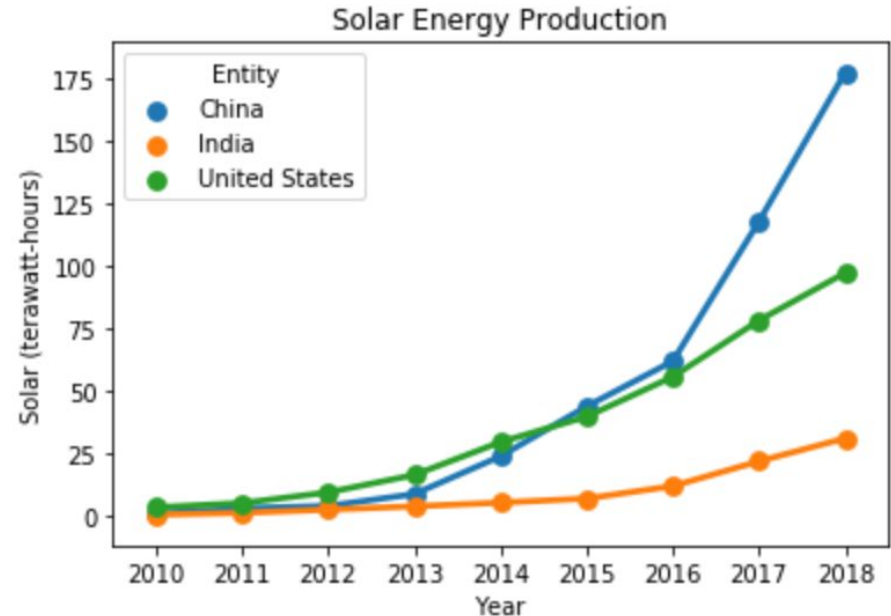


Data Interpretation

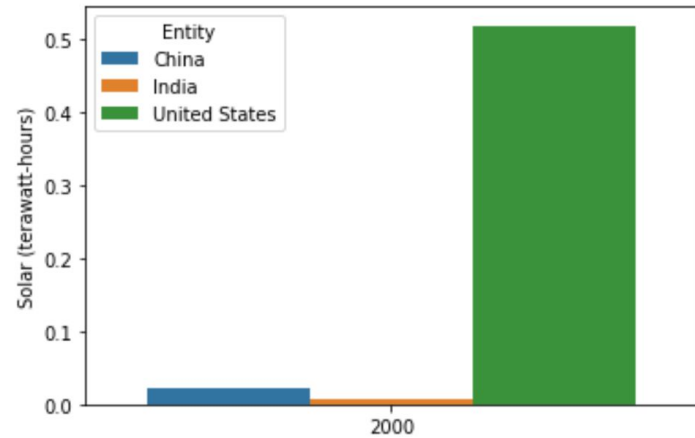
- Statistical test comparing the medians of solar energy production
- Significant difference found
- US production greater for
 - 54% of years between US and China
 - 56% of years between US and India

Solar Energy Production

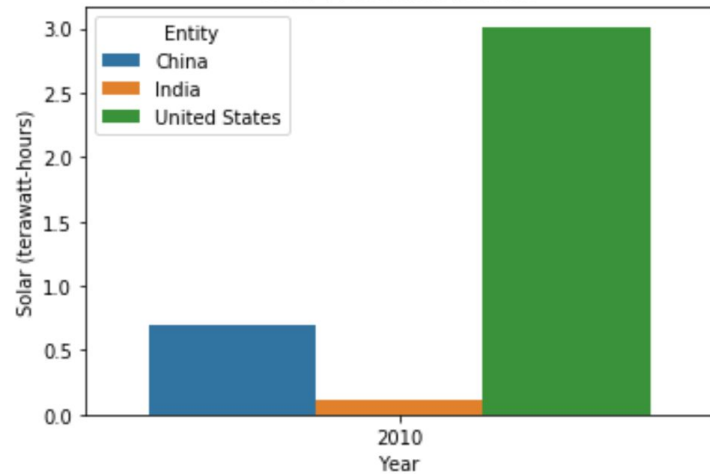
- U.S produced more solar energy than China for 29 years
- U.S produced more solar energy than India for 30 years



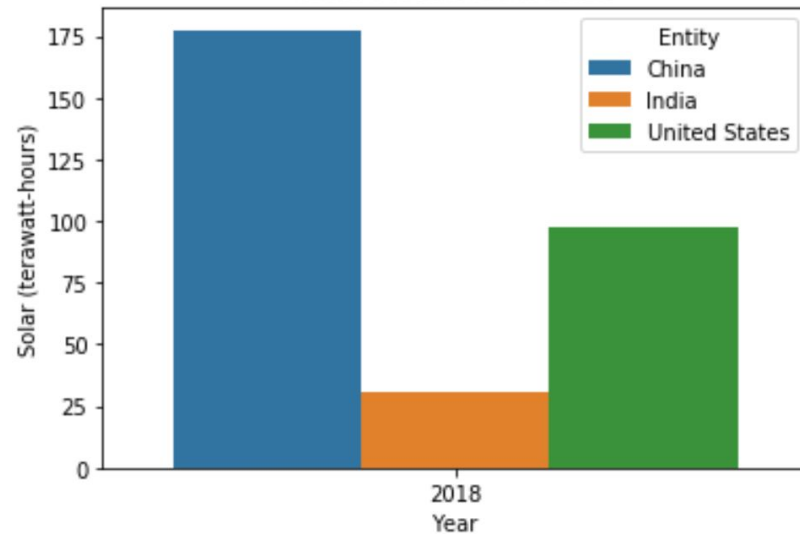
Solar Production in 2000



Solar Production in 2010

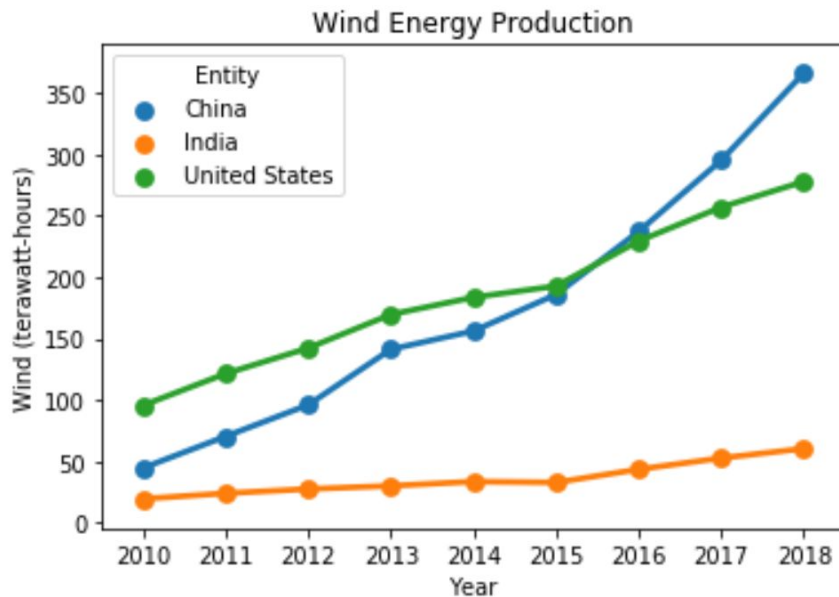
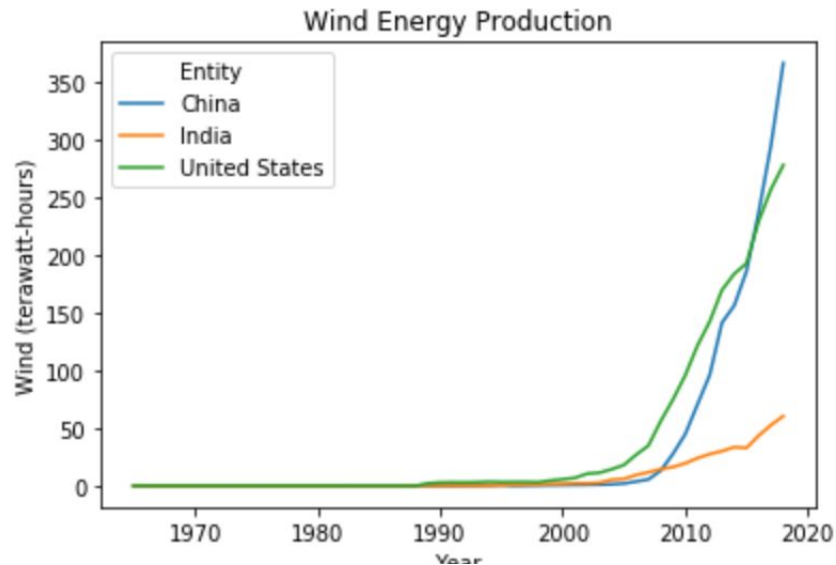


Solar Production in 2018

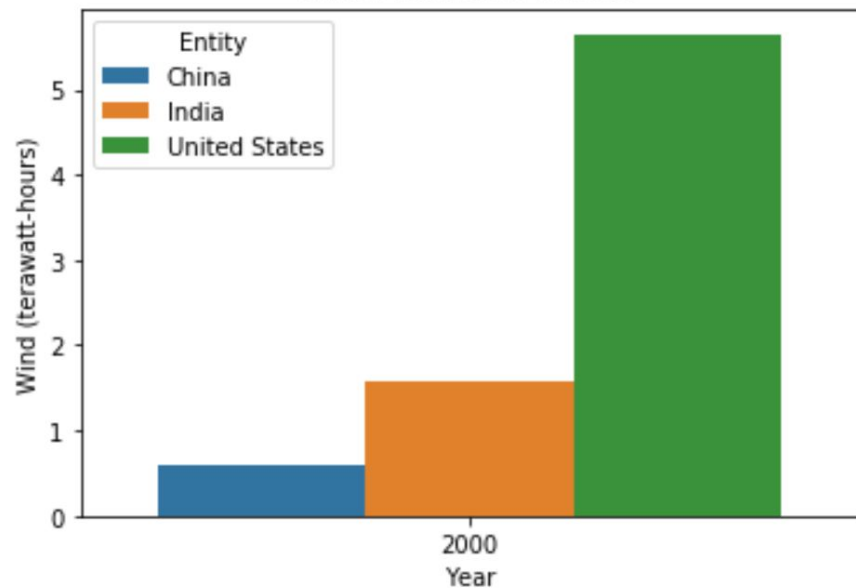




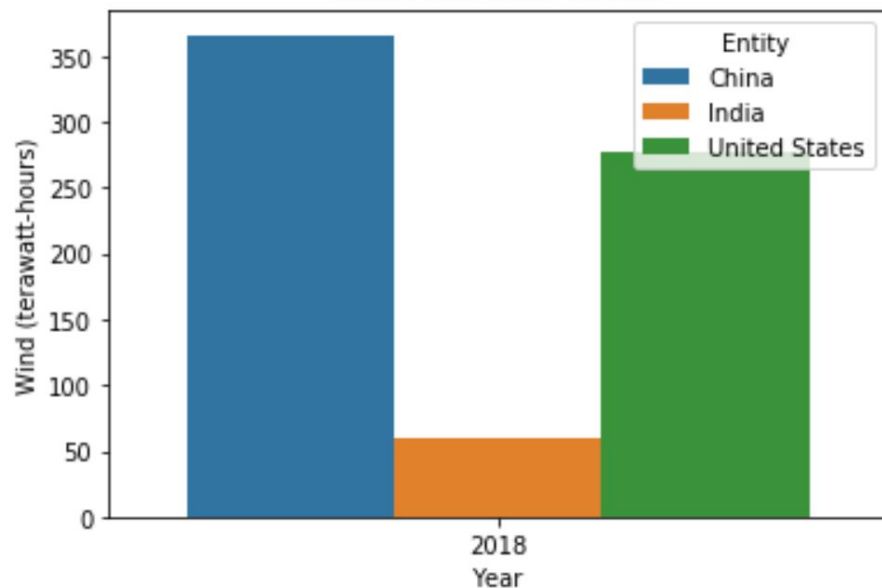
Wind Energy Production



Wind Production in 2000



Wind Production in 2018





Call to Action

- Invest in solar and wind energy
- Make the transition from fossil fuels to renewable energy



Questions?



Thank you!

