

Analysis of Climate Change - World Bank

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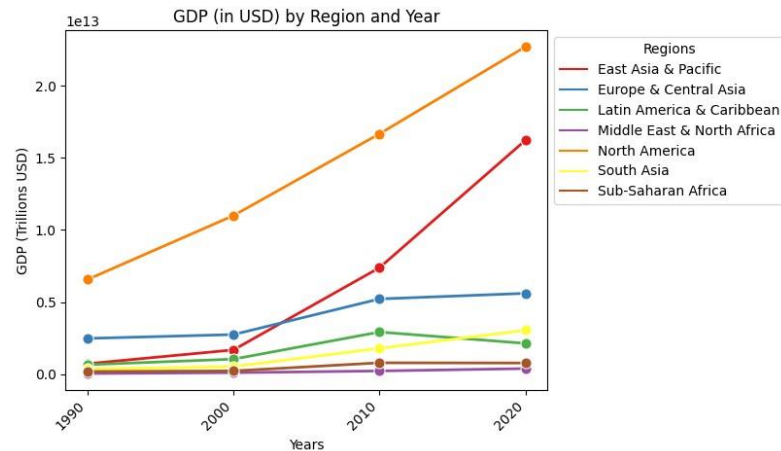
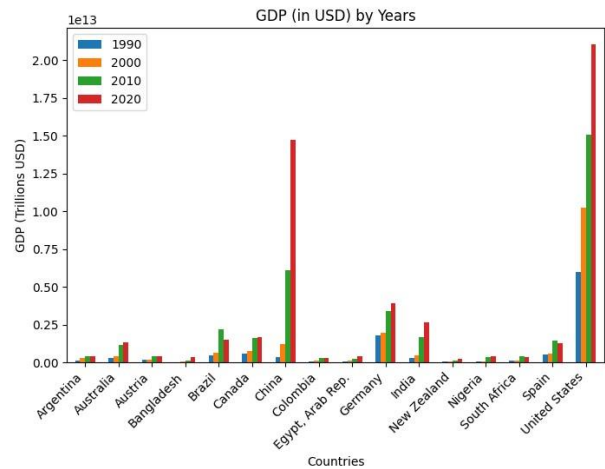
Github_LINK: [Junaid13055](#)

For this analysis, a total of 16 countries were selected, representing diverse continents and regions to ensure even representation. The chosen countries include both advanced and emerging economies, aiming for uniformity in

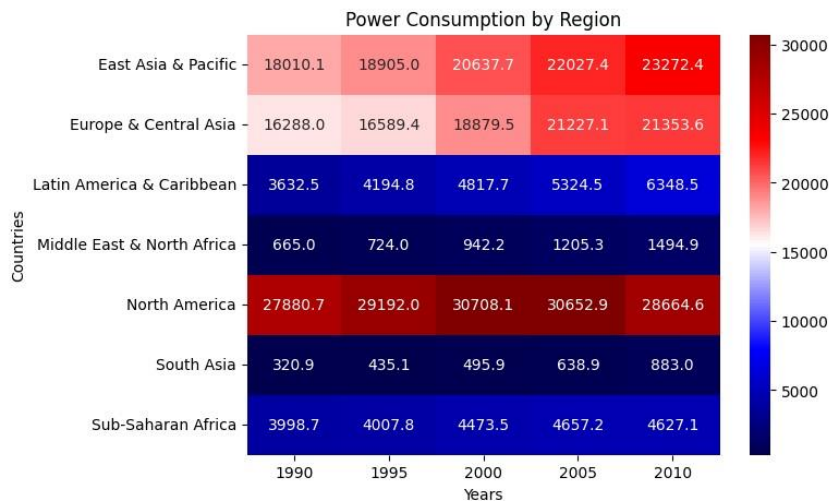
Various indicators pertaining to economics, energy and fuel consumption, and land topography have been chosen for the analysis of the selected countries. While the World Bank datasets cover the years 1960 to 2022, certain metrics and countries have missing values for the initial years. In such instances, suitable starting years have been chosen to ensure a comprehensive and consistent analysis.

The graphs on the right illustrate the GDP growth over a decade, spanning from 1990 to 2020. Among all the world regions, North America and East Asia emerge as dominant forces in terms of total GDP. We can spike up and downs for each country but China and United States have shown exponential growth in GDP over the years

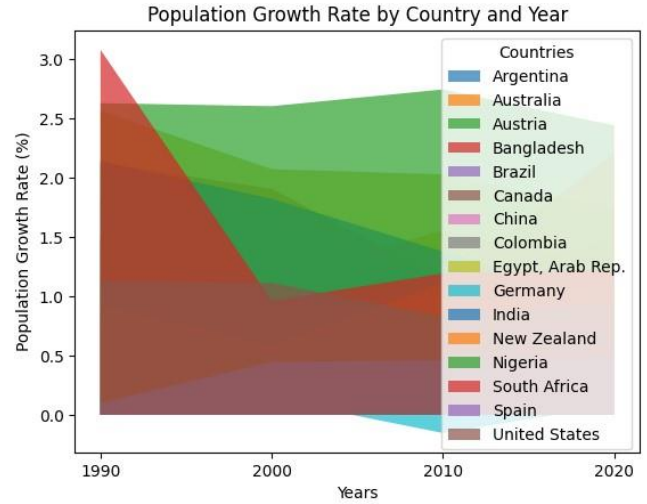
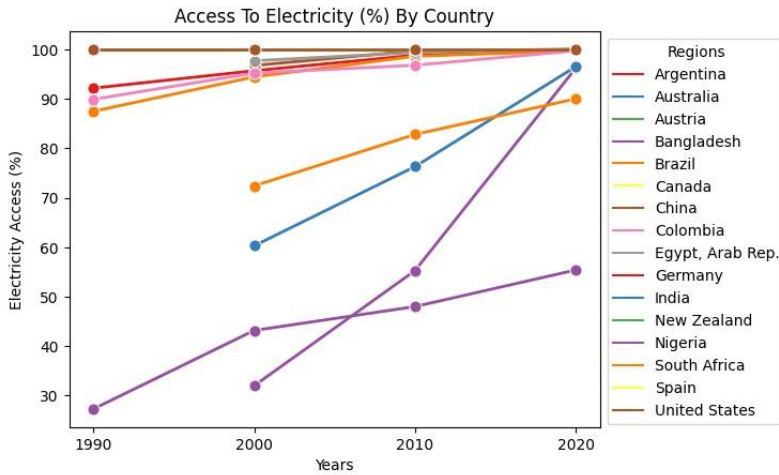
An examination of power consumption patterns reveals a global surge in aggregate energy consumption. This trend is particularly pronounced in North America, East Asia & Europe. The nations in these regions are consuming enormous amount of power for economic sustainability and development.



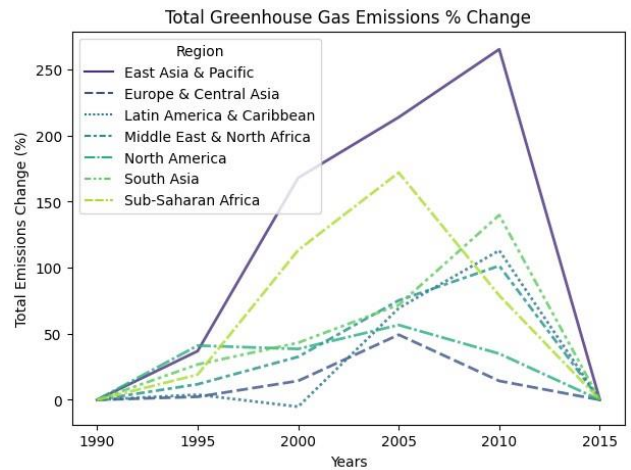
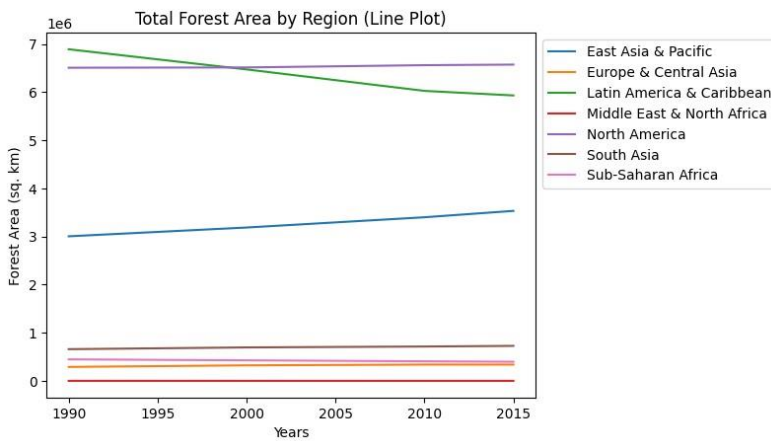
As we can see in the graph below, access to electricity for is almost 100% for China and United States. One key point to observe, some countries with little GDP as compared to big nations, have high electricity access which shows the supply of basic necessities to the residence of these countries. The graph on right shows population growth rate of countries over the years. Colombia, despite having increasing population growth rate, the accessibility to electricity has also been higher there



comparison wherever feasible.



The graph below on left describes total area of forest over the areas, the declining trend shows the reduction of forest area possibly due to Greenhouse gas emissions. The graph on right below illustrate a notable spike in greenhouse gas change levels in the atmosphere. Asia Pacific region seemed to show very high greenhouse gas emission change



Github Link