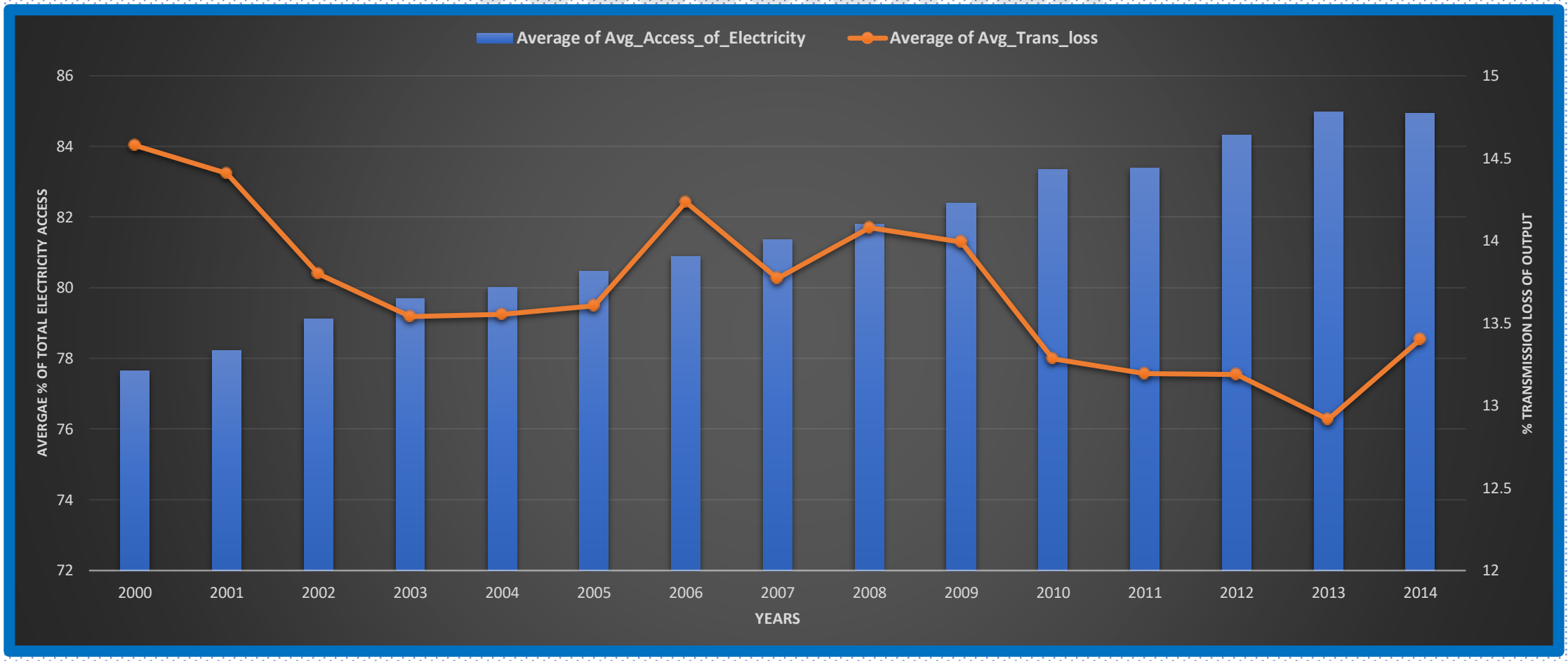
WORLD ELECTRICITY ANALYSIS

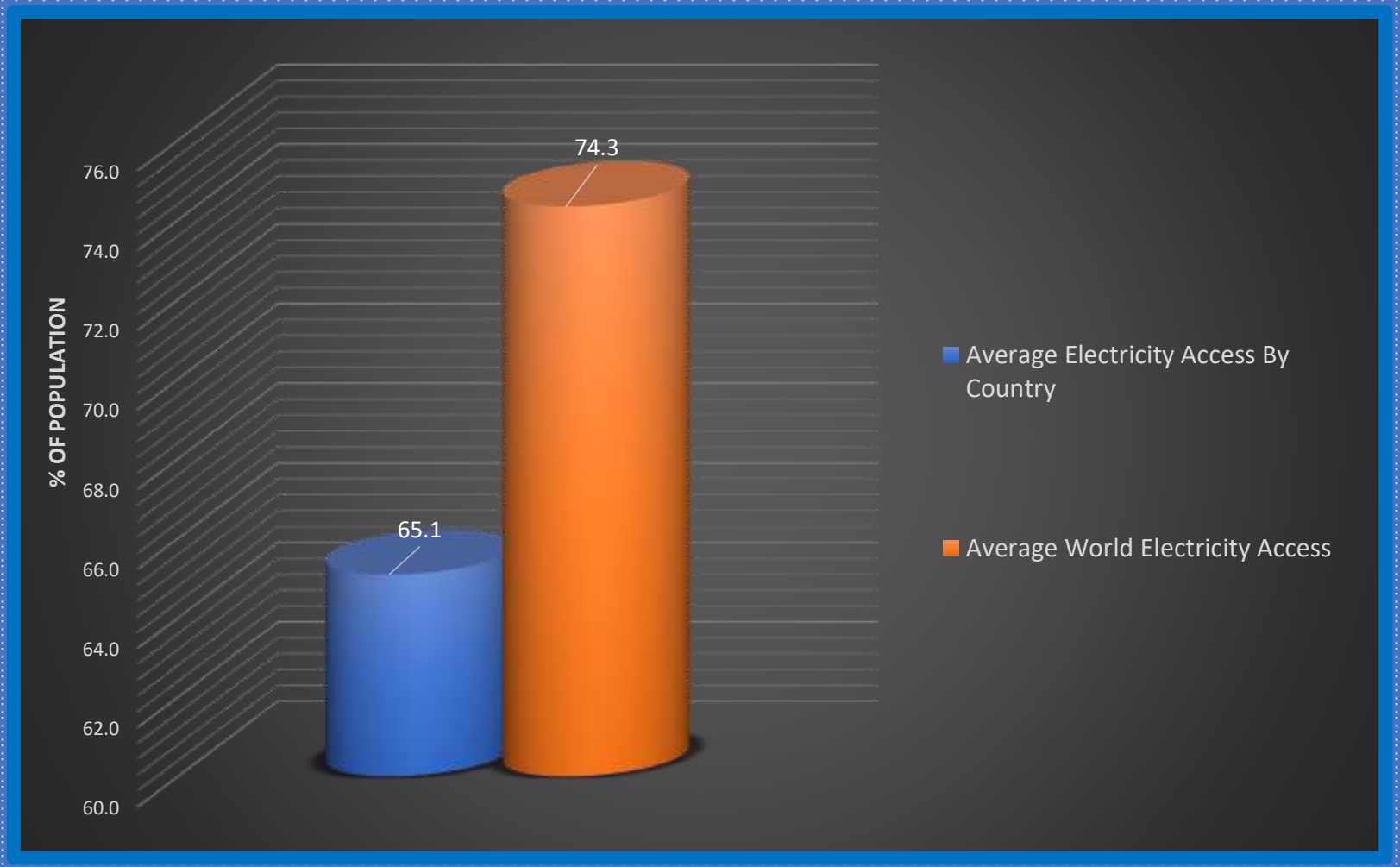
Introduction:

- Analysis on production of electricity .
- Analysis on electricity transmission and distribution losses.
- Analysis on accessibility of electricity in different countries
- Analysis on urban and rural electricity accessibility.

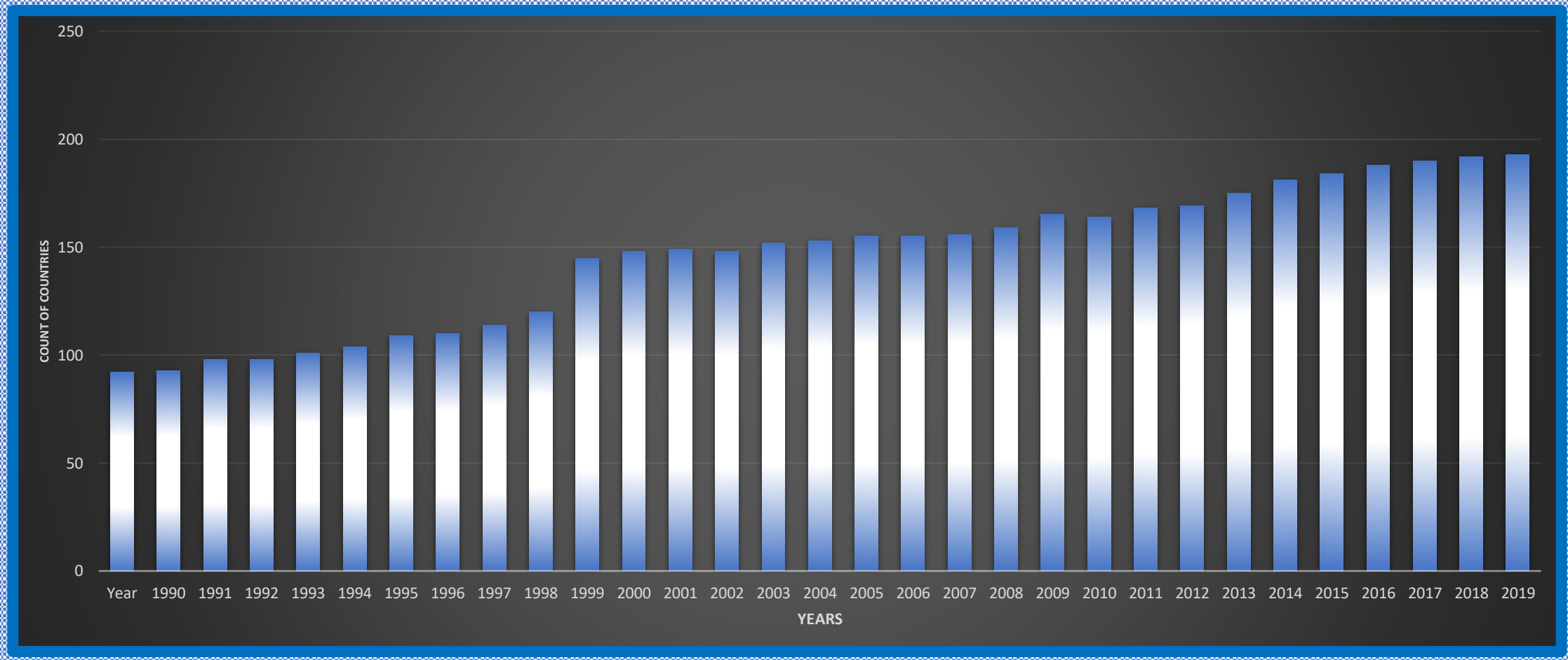
DISTRIBUTION LOSSES AND ACCESSIBILITY



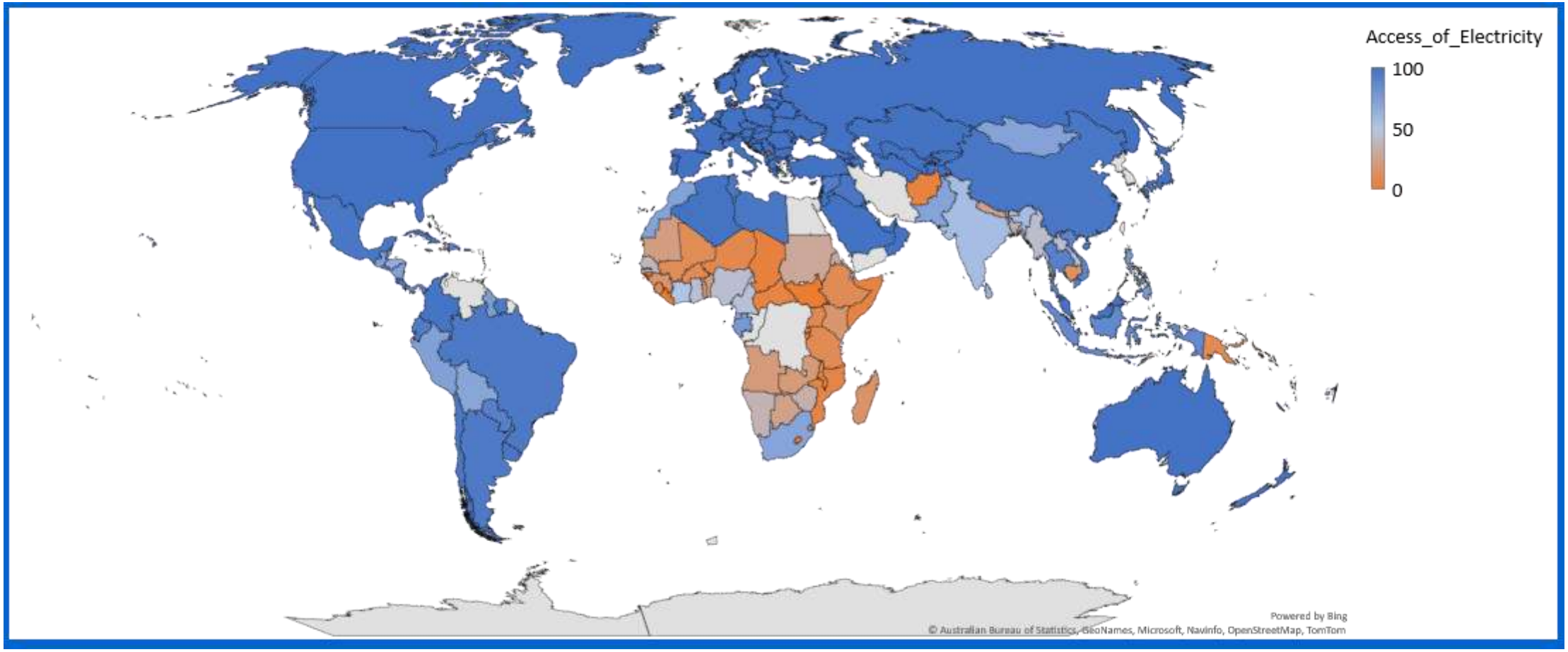
COMPARISION B/W WORLD ELECTRICITY ACCESS & COUNTRY ELECTRICITY ACCESS



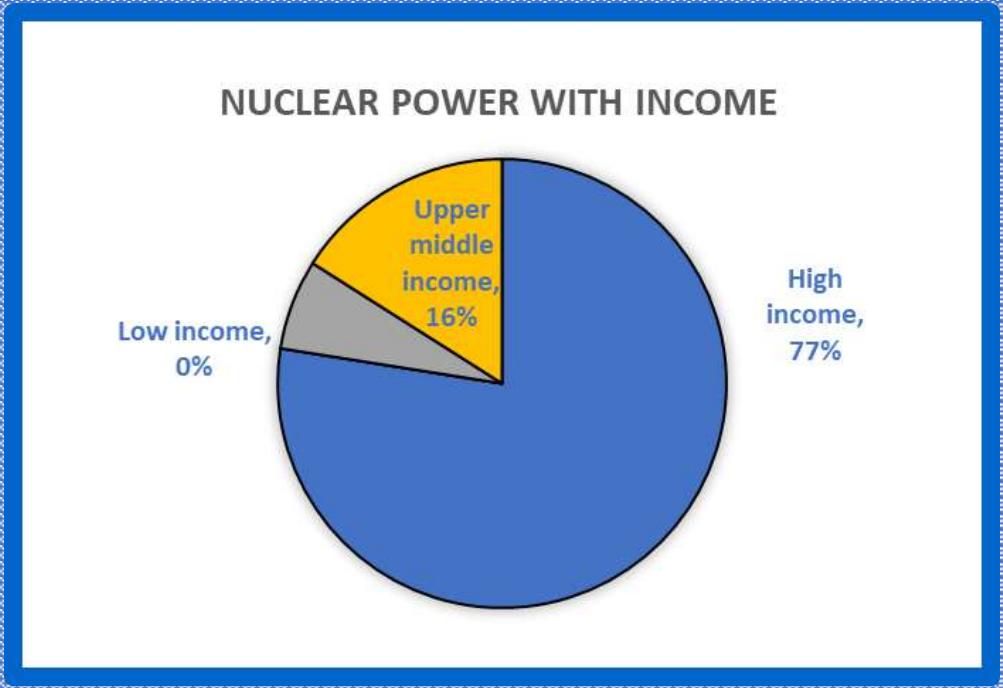
Countries with Electricity Access>75% in Rural Areas

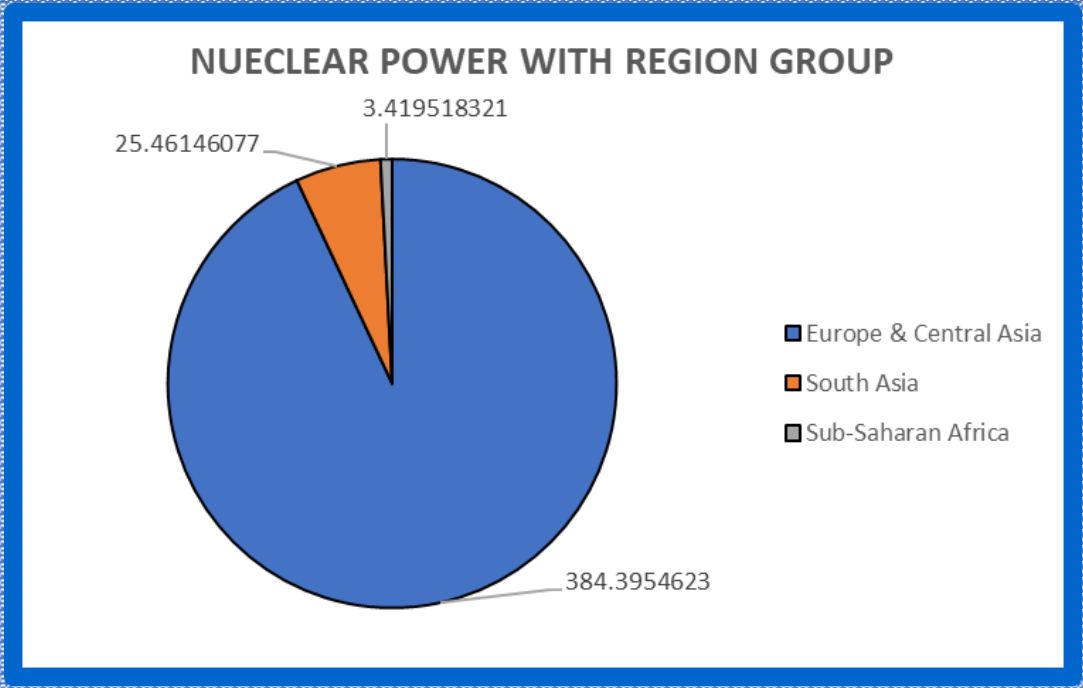


Average % of Population with Electricity Access Post 2000's



Comparing Nuclear power generation with Income class and region wise :





Findings:

- Developed countries are contributing more towards Nuclear Power production
- 82% of Rural Areas have Electricity access across the globe.
- Only 15 countries account for more than 90% nuclear energy generation.
- Energy from Oil source is major contributor for Electricity generation.
- Distribution loss has reduced from 84% to 13% from year 2000 to 2014
- Electricity accessibility has increased from 78% to 84% from year 2000 to 20014.

Insights:

- Nuclear power electricity generation is in increasing trend.
- Inefficiency and least accessibility leads to losses in electricity market.
- Renewable Energy and Nuclear sourced energy is the best alternative to tackle climate change.
- Proper action plan should be drawn to stop excessive transmission and distribution losses.
- Energy production from Oil source is in declining trend.

Challenges:

- Incomplete data.
- Insufficient knowledge .
- Cleaning and handling of datasets.
- Problems in picking up the right syntax for python from Google.
- No prior practice.
- Lots of things were running in parallel with project, viz. guesstimates evaluation, SQL final week preparation.

Tools & techniques :

Conclusion:

- We have worked on various dataset having Electricity production data, Electricity transmission & distribution data across different countries.
- Lots of problems were surpassed to give a good analysis on data.
- We learnt hands on experience on how to handle raw data to perform analysis.
- Team and Collective work is the add-on lesson that we can’t overlook.
- Everybody’s valuable opinions and ideas were highly appreciated.

Thank you