



WORLD ELECTRICITY ANALYSIS

A descriptive analysis of access to electricity, production from different sources(nuclear, oil & renewable energy) and distribution losses across different countries.

ACCESS TO ELECTRICITY

- Country access post-2000s.
- Country access : World Average Access.
- A trend of increasing countries with electricity access to rural.

ELECTRICITY PRODUCTION.

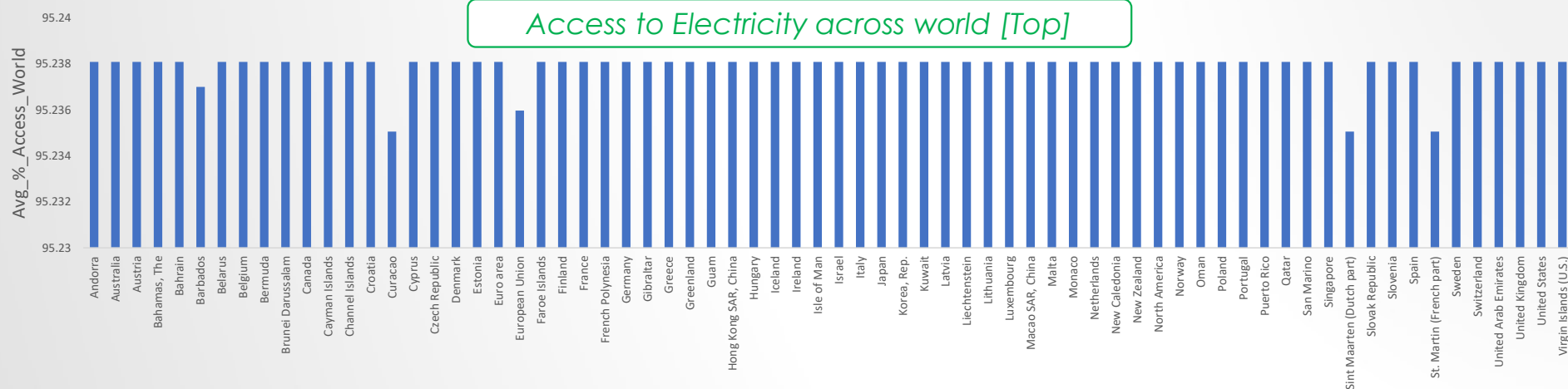
- Evolution of production through nuclear power by region and Income Group.
- Evolution of production across different sources.

DISTRIBUTION LOSSES

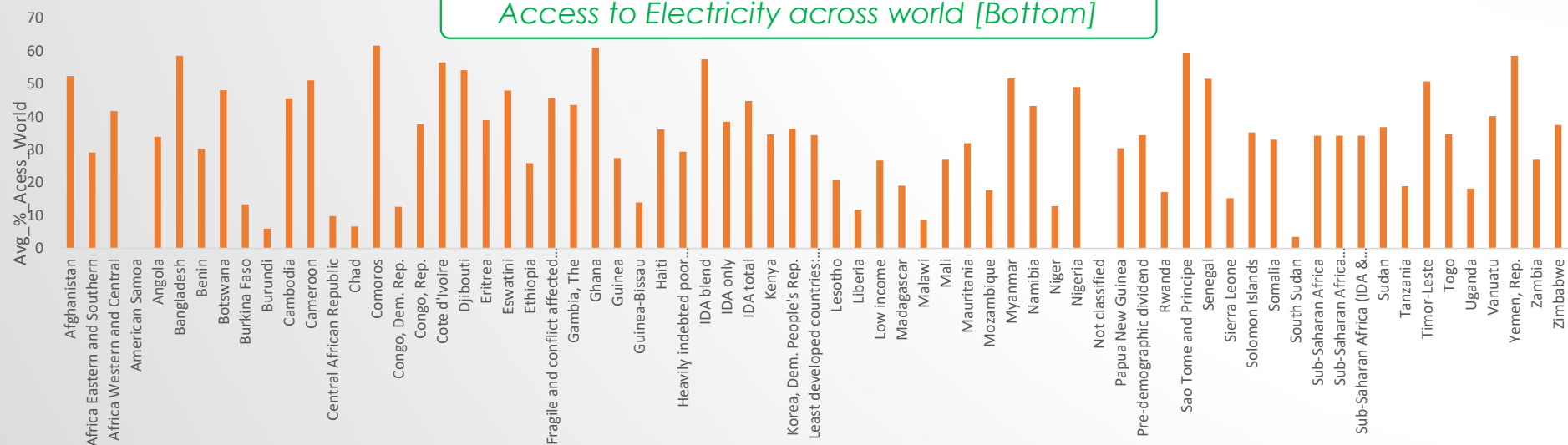
- Comparison between distribution losses and access.
- Comparison between distribution losses and production.

COUNTRY ACCESS POST 2000.

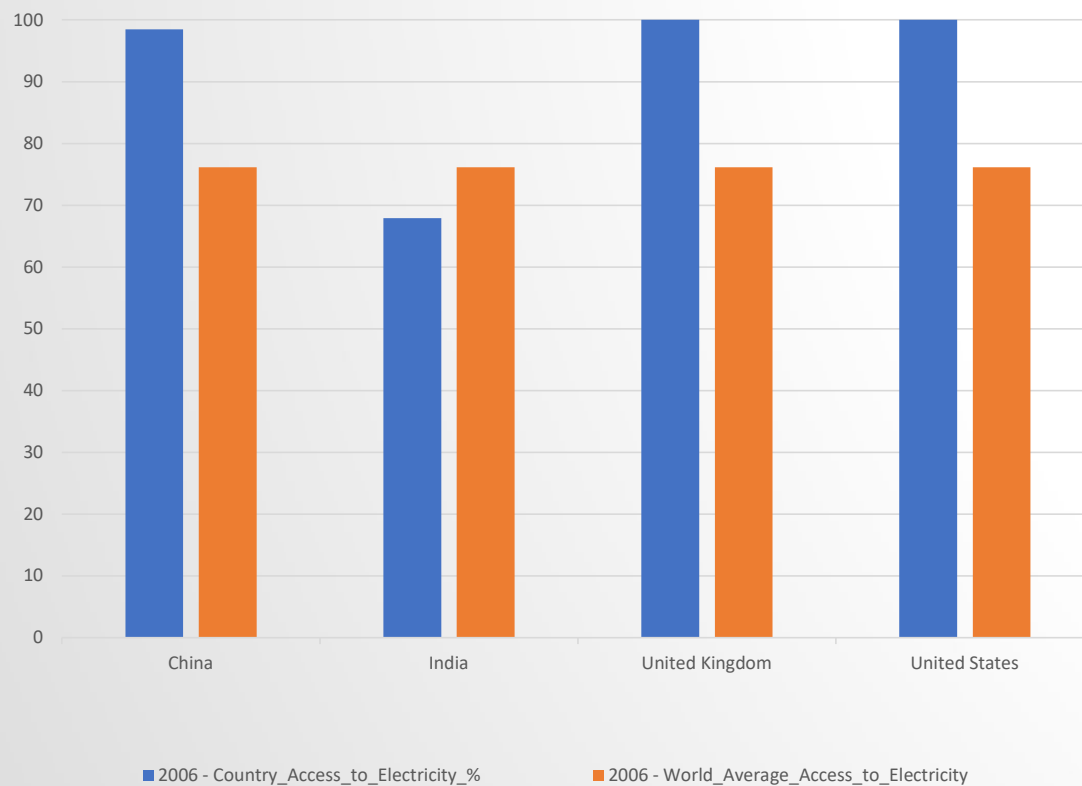
Access to Electricity across world [Top]



Access to Electricity across world [Bottom]

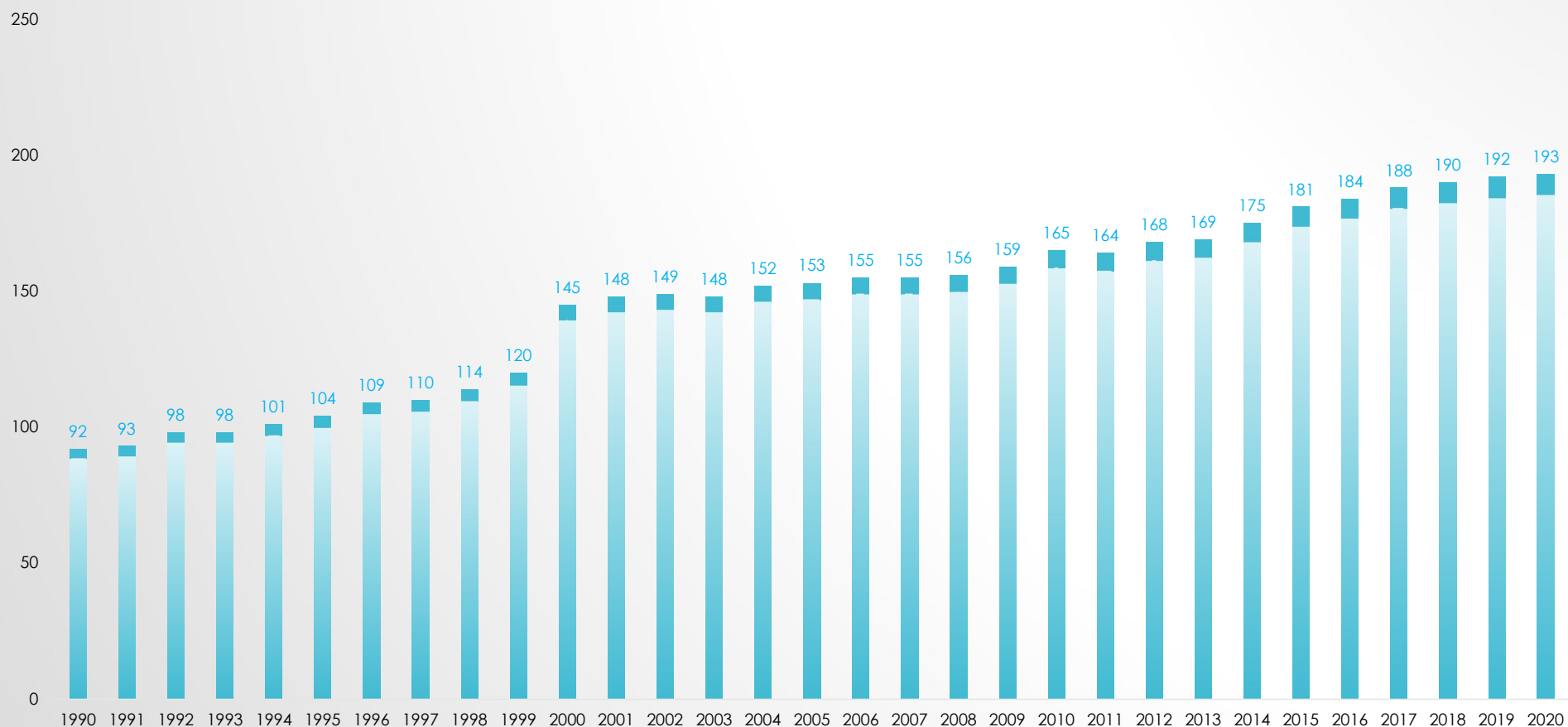


COUNTRY ACCESS : WORLD AVERAGE ACCESS.

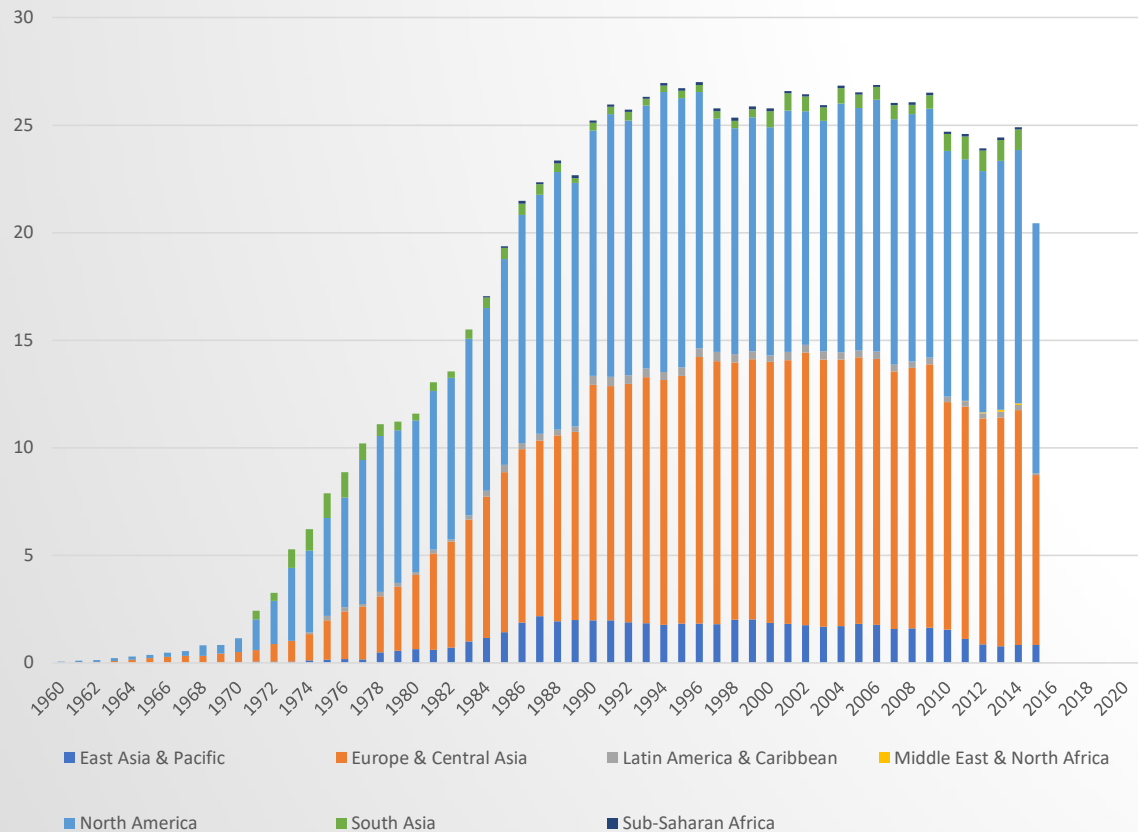


- A comparison overview of country's access to world's average access.
- Overview responds to manual selection of country and years.
- Feel free to try on [Excel](#).

A TREND OF INCREASING COUNTRIES WITH ELECTRICITY ACCESS $\geq 75\%$ IN RURAL AREAS.

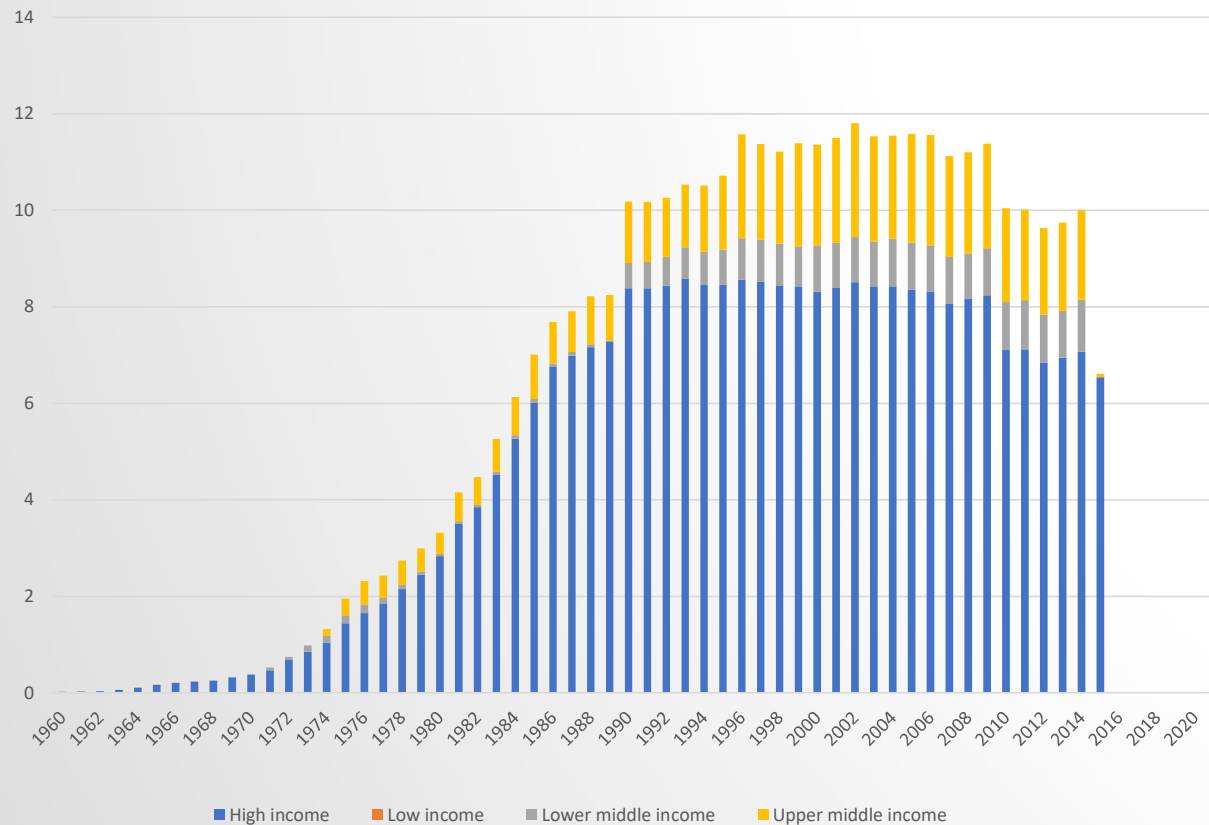


EVOLUTION OF PRODUCTION THROUGH NUCLEAR POWER BY REGION .



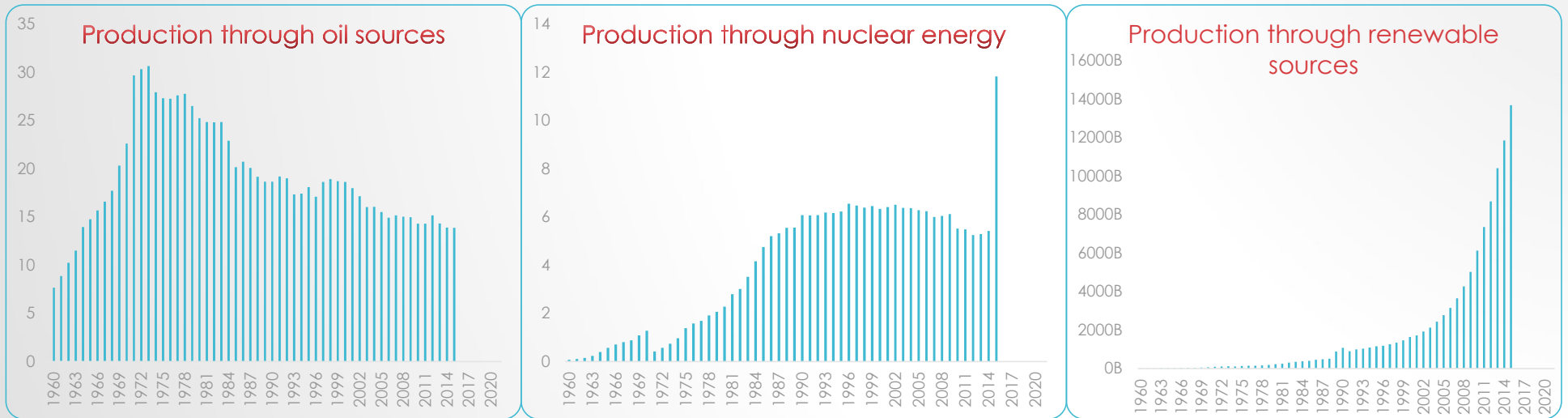
- Production through nuclear power has been in increasing trend from 1970s to 1990s.
- North American, European & Central Asian regions have been dominant in production from nuclear energy through out the evolution.
- This viz is dynamic to region selection, feel free to try on [Excel](#).

EVOLUTION OF PRODUCTION THROUGH NUCLEAR POWER BY INCOME GROUP.



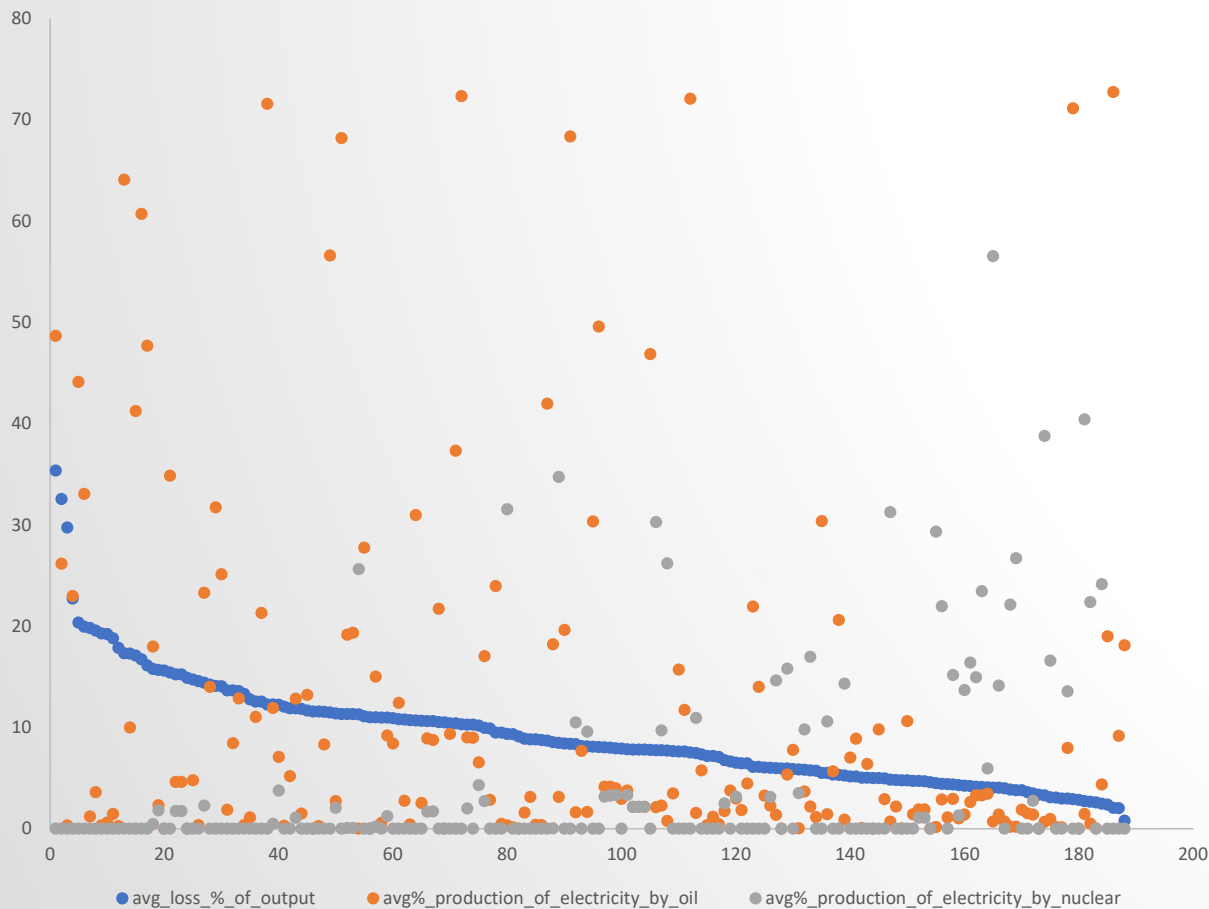
- Production through nuclear power has been in increasing trend from 1970s to 1990s.
- High Income Group countries contribute to more than 70% of production through nuclear energy.
- Low Income group couldn't contribute towards production through nuclear energy.
- This viz is dynamic to income group selection, feel free to try on [Excel](#).

EVOLUTION OF PRODUCTION ACROSS DIFFERENT SOURCES.



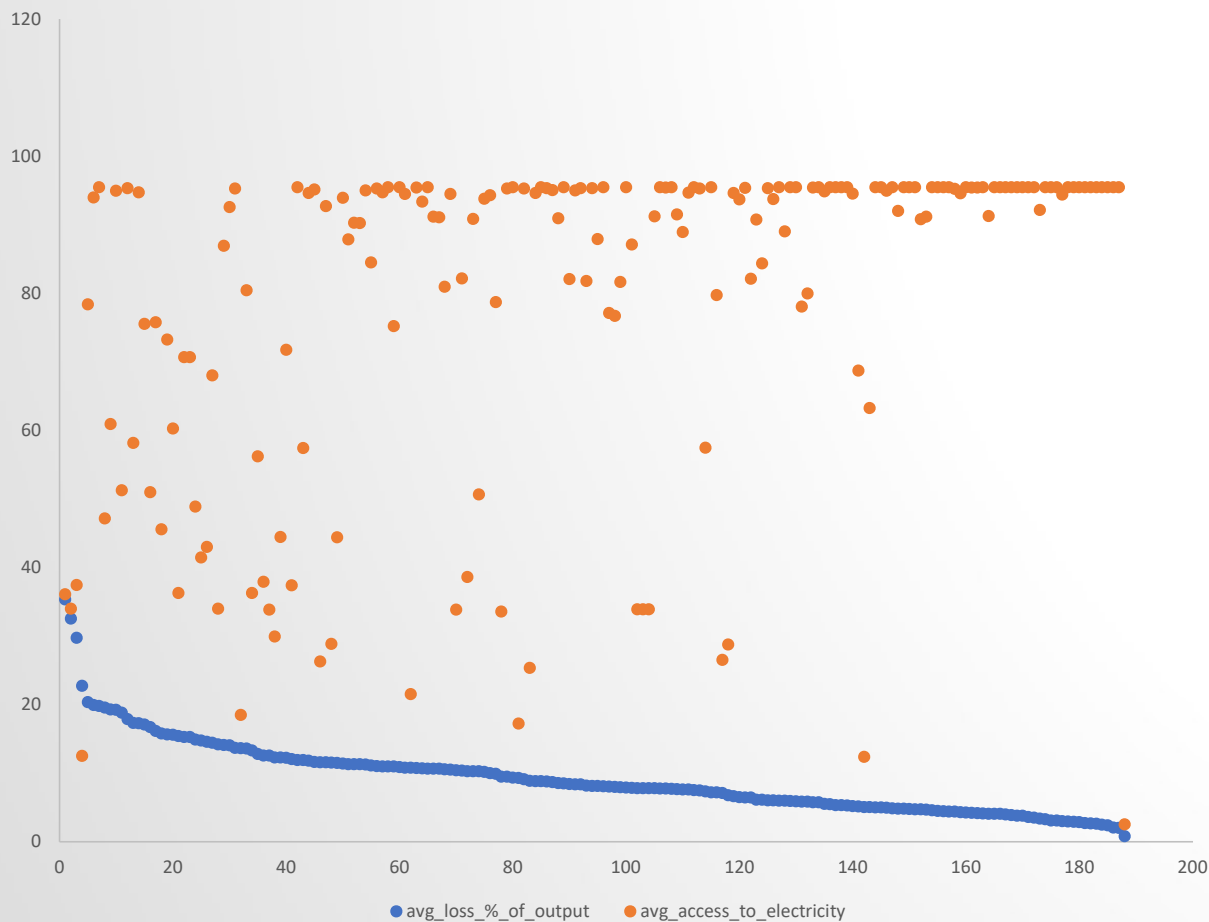
- Production through oil sources has been in declining trend since mid-1960s, which can be attributed to environmental concern and awareness.
- Recent years have shown a sudden spike in production through nuclear energy, can be attributed to increased efficiency in recent years.
- Production through renewable sources has seen a sharp increasing trend from mid-1970s, can be attributed to environmental concerns and awareness.

RELATION ON BETWEEN DISTRIBUTION LOSSES AND PRODUCTION.



- An insight can be drawn that dependency on oil based production can attract losses in electricity distribution.
- Exceptions like oil producing nation, pricing mechanisms, etc may stand false for above insight.
- Diversifying production from costlier sources to alternatives can minimize distribution losses.
- Assumptions: considered statistics after 2000.

RELATION BETWEEN DISTRIBUTION LOSSES AND ACCESS.



- An insight can be drawn that inefficiency or least access to electricity can attract losses.
- Countries should aim for achieving access to electricity which leads to more revenue and in turn reduce losses.
- Even with high access to electricity, if a country makes significant losses, pricing mechanism have to be figured out or leakage in production has to be dealt.
- Assumptions: considered statistics after 2000.

A COLLABORATIVE
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THANK YOU

