

## ELECTRICITY CONSUMPTION FROM OIL GAS AND NUCLEAR SOURCES

Data set is consisting of Access to electricity (% of population) and Electricity production from nuclear sources (% of total) and Electricity production from oil, gas and coal sources (% of total) of 10 countries in years between 2000 to 2016. The data set is taken from world bank api. The top 10 countries are CANADA , CHINA , UNITED KINGDOM , INDONASIA, INDIA, IRELAND, JAPAN, NEW ZEALND, THAILAND, UNITED STATES

From the 10 countries in 16 years 95.68% of total production of electricity was accssed and 68.3% from oil and gas sources. Thailand is the country which has height percentage rate of (92.6 % ) electricity production from oil gas and coal where canada has( 24.21 % ) with low production from oil, gas and coal sources United kingdom has height percentage rate of (19.6) electricity production form nuclear sources where as new zealand , Thailand and Ireland with 0%.

### Variance

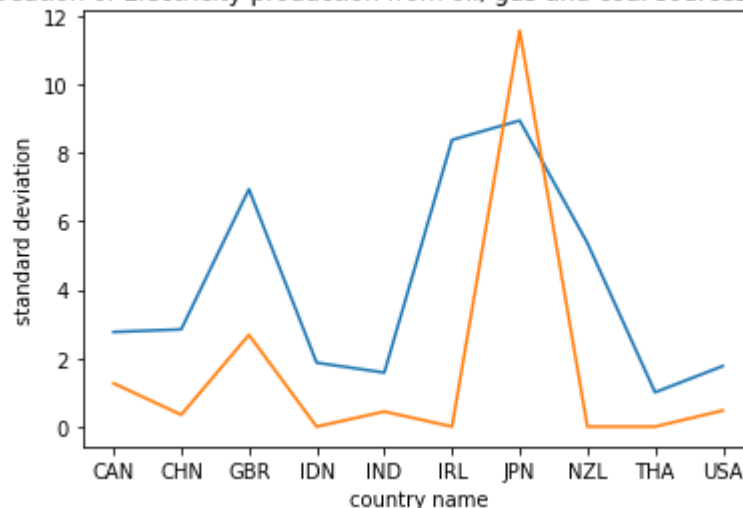
As we consider the variance of the dataset the total variance of the Electricity production from oil, gas and coal sources '

CAN': 7.652782859550647, 'CHN': 8.079524910011232, 'GBR': 48.129134425112376, 'IDN': 3.491014575499954, 'IND': 2.493750327075829, 'IRL': 70.19674144778384, 'JPN': 80.01206948756565, 'NZL': 28.811656594967623, 'THA': 1.0059262612064124, 'USA': 3.132779703959619}

### Standard Deviation

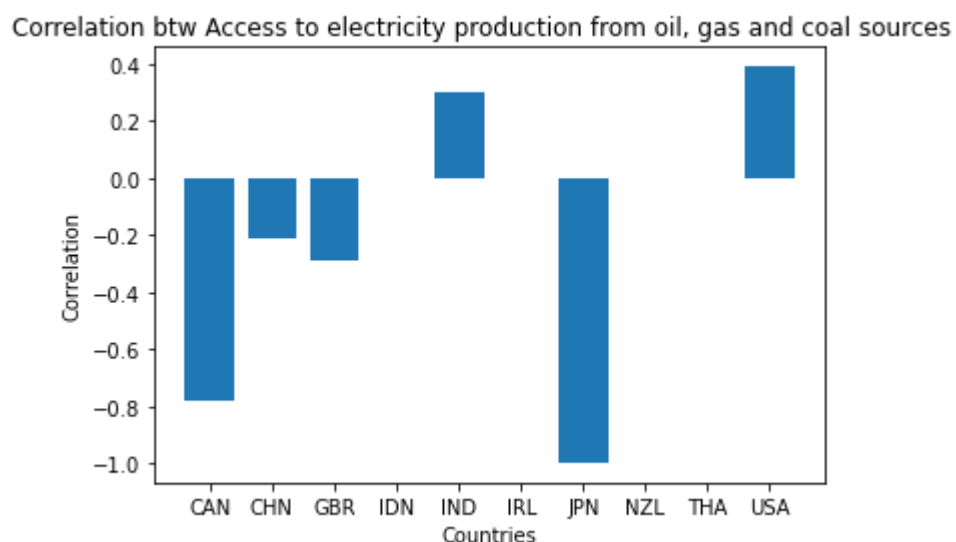
Standard deveation of Electricity production from oil, gas and coal sources vs nuclear sources

Standard deveation of Electricity production from oil, gas and coal sources vs nuclear sources



In electricity production from from oil, gas and coal sources vs nuclear sources Janpan has height standard deviation

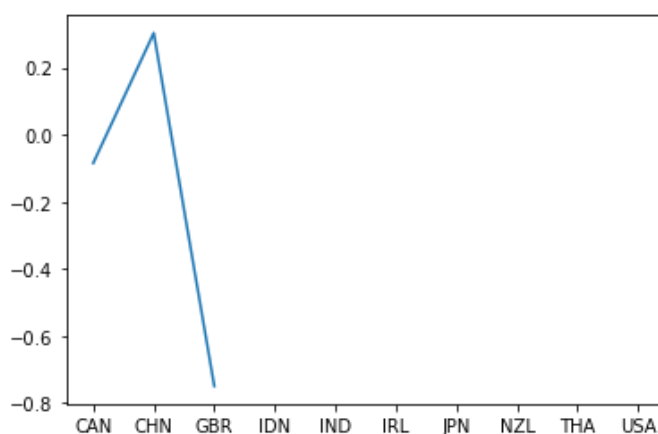
### Correlation :



In the total 10, 2 countries have positive correlation and all other 0 and negative

### Time series correlation

Time series correlation of each country is CANADA : -0.084652 CHAINA : 0.303370 UNITED KINGDOM : -0.750249 INDONASIA : NaN INDIA : -0.232025 IRELAND : NaN JAPAN :NaN NEW ZEALAND : NaN THAILAND : NaN UNITED STATES : -0.206509



correlation b/w Access to electricity vs Electricity production from nuclear sources for one country is -0.29275505213707387

