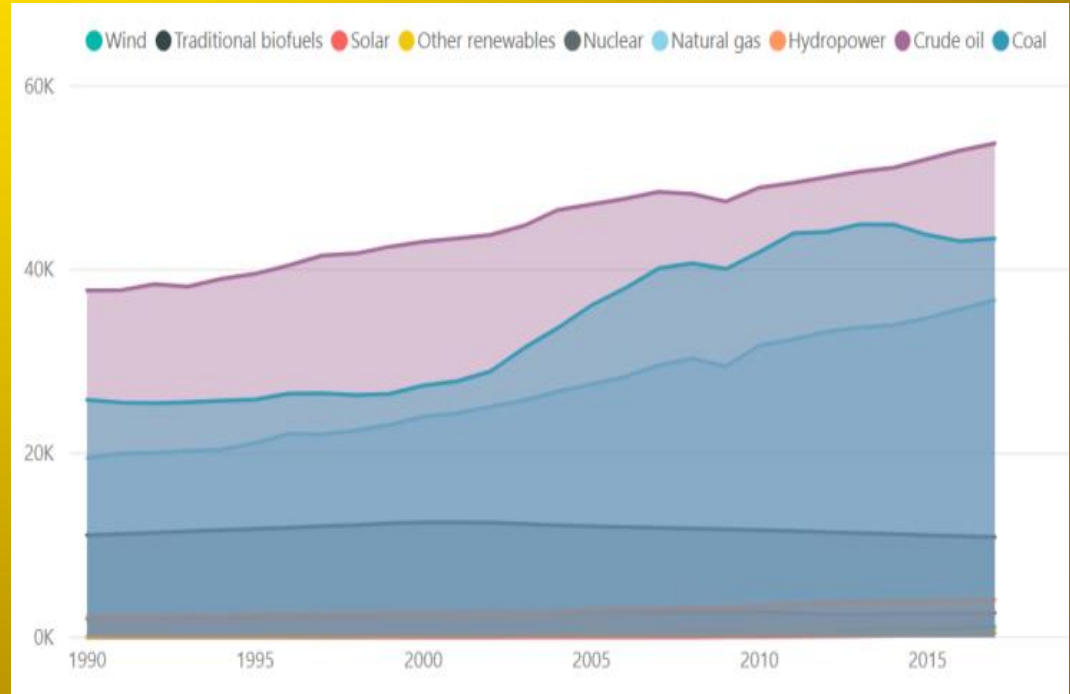




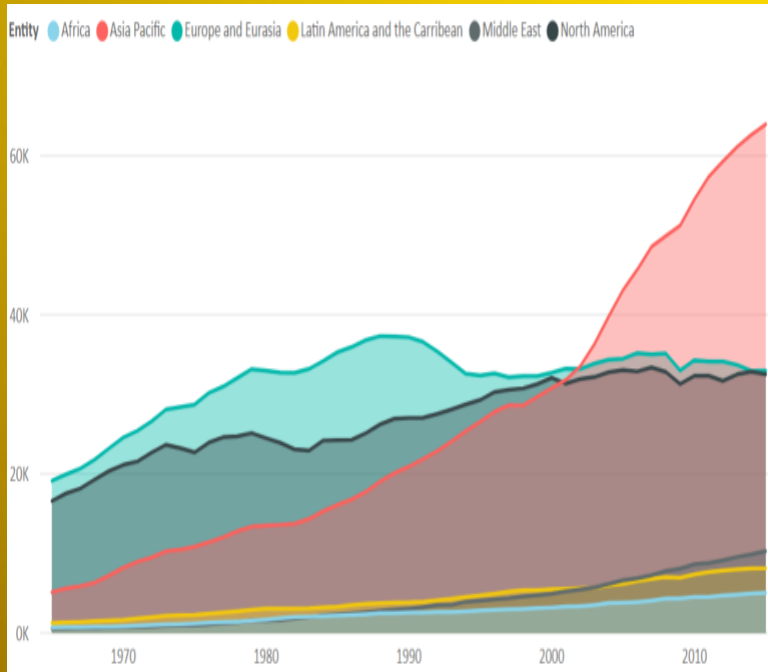
Energy Production and Reserves:  
*Present and Future*  
Salwinder Gill & Batbileg Enkhbat

# Energy Production

- Energy Production refers to forms of primary energy - Petroleum (crude oil, natural gas liquids, and oil from non conventional sources), Natural Gas, Solid Fuels (Coal, Lignite, and Other derived fuels), and combustible renewables and waste
- All converted into tonnes of oil equivalents (toe).

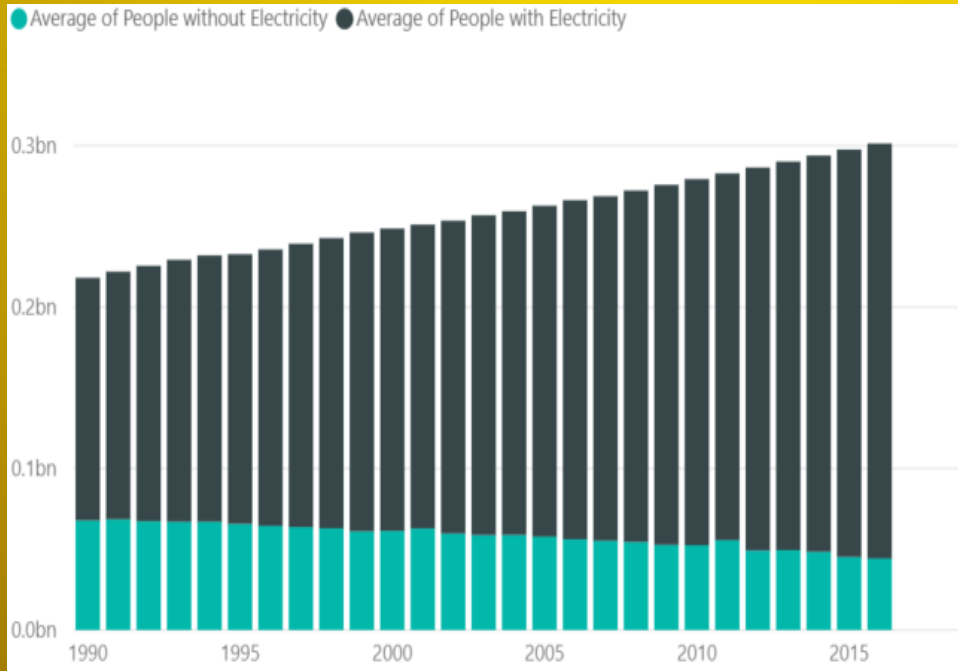


# Energy Consumption Per Region



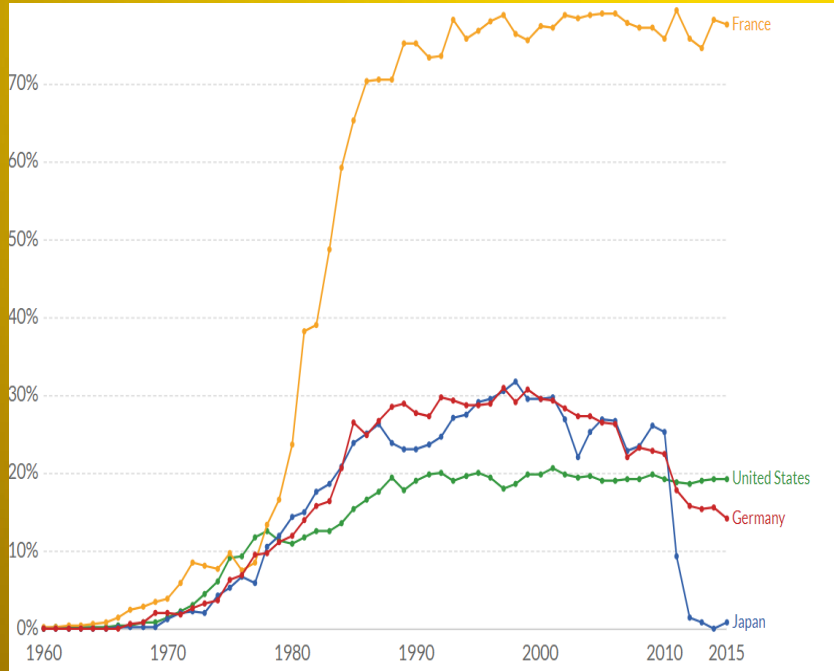
- Asia Pacific is the largest consumer 43%
- North America and Europe 16% each
- Middle East, Latin America and Africa 7 % each

# People with access to Electricity



- With increasing Population, number of people without electricity has declined
- Number of People with access to electricity has increased to 2.7 billion

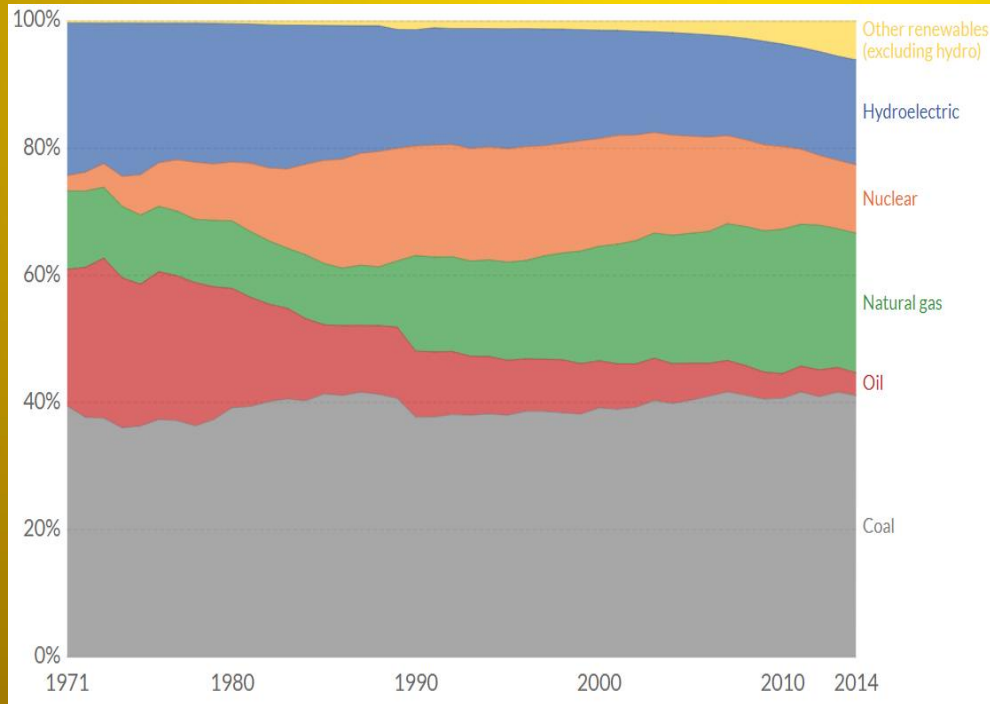
# Nuclear Energy Production



- The Share of Nuclear Production has decreased by more than 6 %
- Almost every country has reduced production of Nuclear Energy as it is very dangerous to human beings.

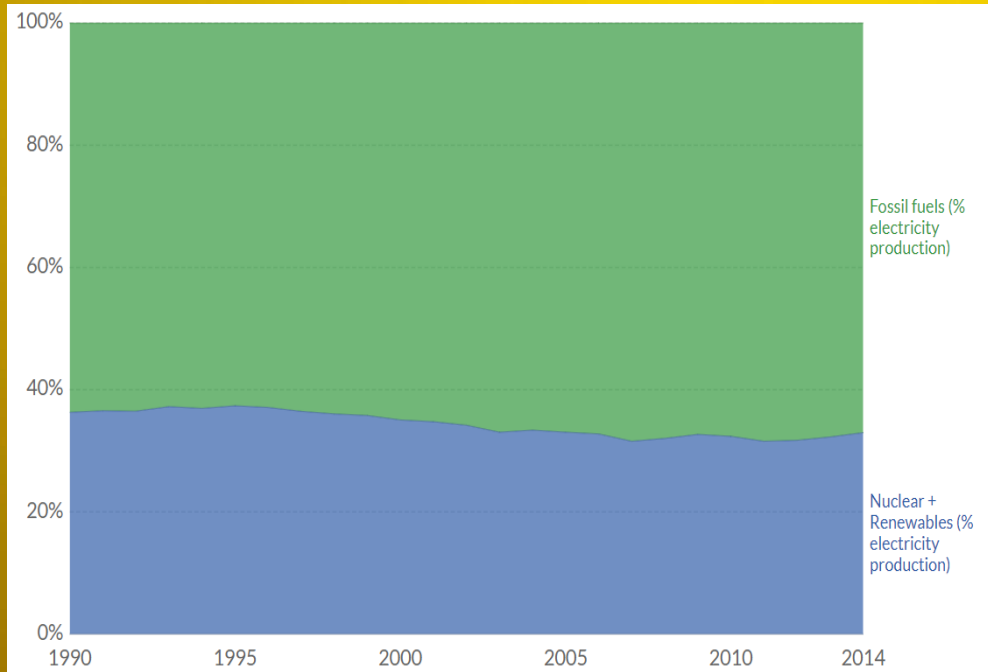


# Energy Generation by Source



- The Share of Renewable source of energy has increased by more than 6 %
- The Share of Nuclear Production has decreased by the same amount ( 6 %)
- Contribution from oil has declined by 10%
- There is almost no change in total share of coal energy

# Fossil fuels & low-carbon sources



- Total share of low-carbon electricity production is almost exactly the same as a decade ago

A decorative header featuring a lightbulb with the word 'Creativity' written on it. To the left of the lightbulb are several circular arrows forming a loop. To the right are a large arrow pointing right and a cloud-like shape.

## Conclusion

- If we want to reduce our global greenhouse gas emissions, the world has to transition from an energy system dominated by fossil fuels to a low-carbon one
- We have two options to achieve this: **Renewable technologies** (including bioenergy, hydropower, solar, wind, geothermal, and marine energy) and **Nuclear energy**.
- Both of these options produce very low CO<sub>2</sub> emissions per unit of energy compared with fossil fuels. This is called '**Decarbonisation**'



# World population

