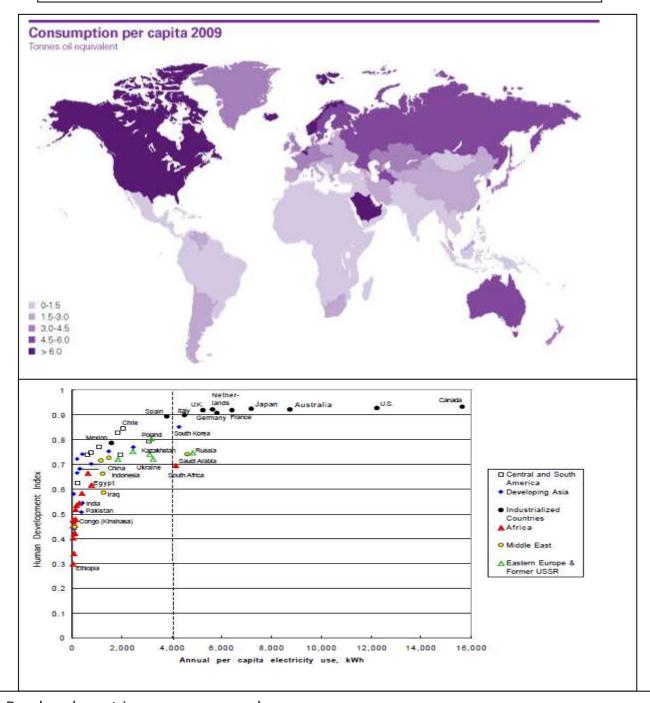
GLOBAL ENERGY CONSUMPTION, PRODUCTION AND TRADE



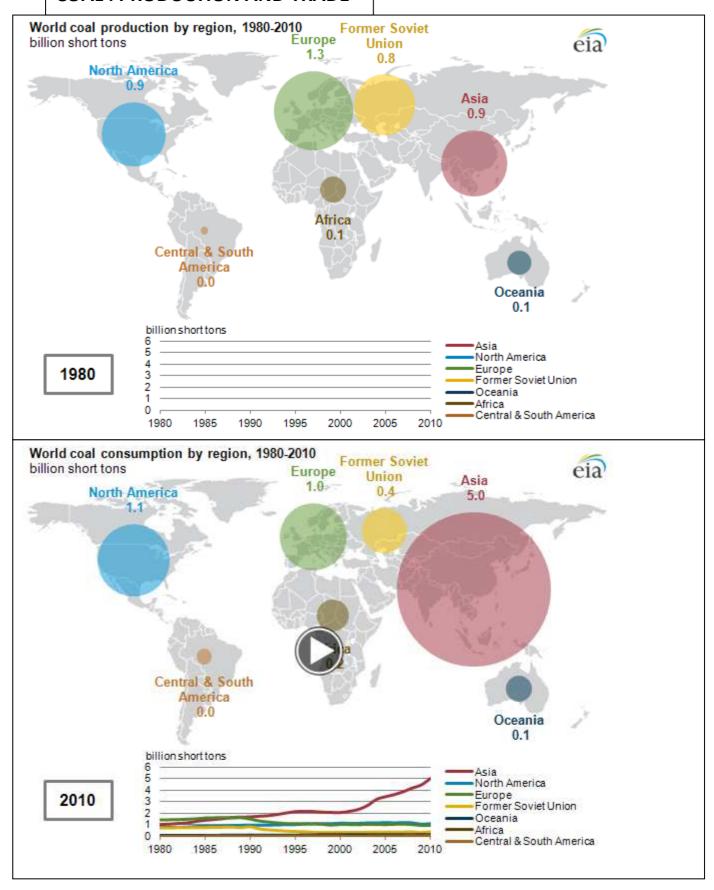
Developed countries use more energy because :-

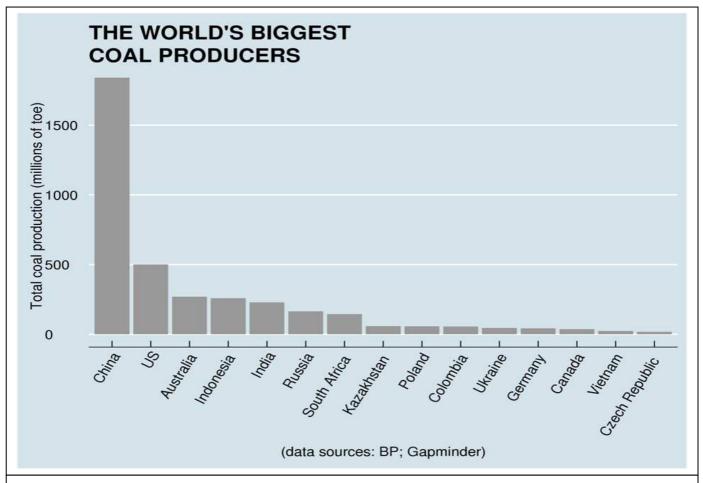
- They have a greater level of urbanisation and people living in towns and cities use more energy
- They have a greater level of industrialisation using energy in manufacturing industries
- They have a more mechanised and intensive system of agriculture
- They have a larger service sector, consuming more energy in offices, schools, hospitals etc.
- They have systems of transport, road, rail, air that use a great deal more oil
- Domestically their homes have more energy using facilities and appliances, central heating, aircon. Etc

Some countries don't follow this pattern because :-

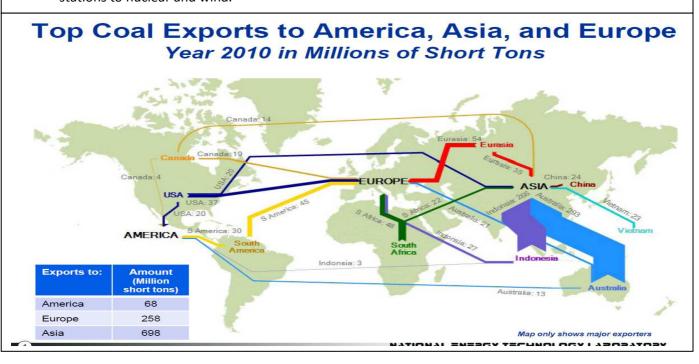
- They have large reserves of energy resources such as oil which makes it very cheap to use, see Saudi Arabia, Venezuela and UAE on the above graphs
- Some large countries like Russia and Canada use large amounts of energy on transport and have extreme climates that require large energy inputs in winter for heating

COAL: PRODUCTION AND TRADE

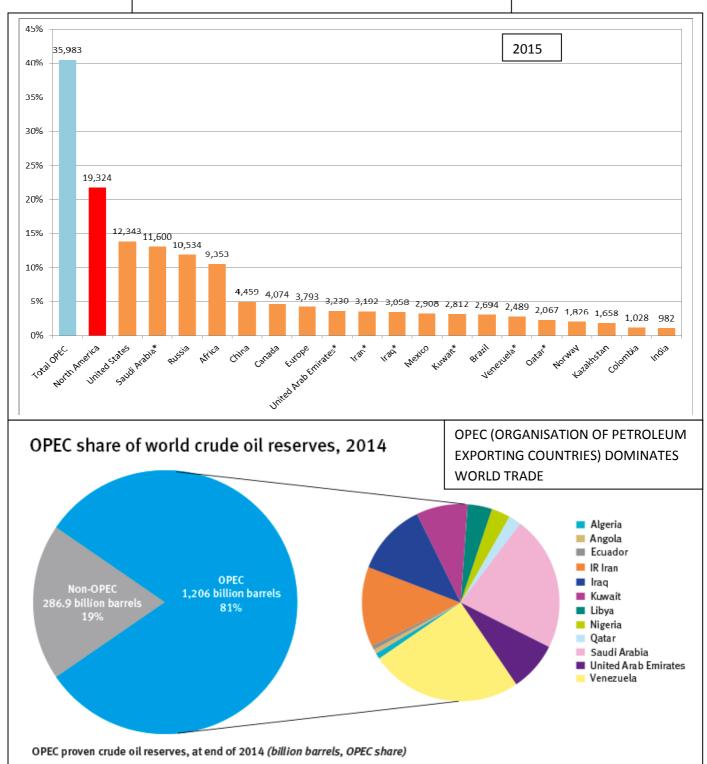




- Massive growth in the production of coal in Asia, especially China and India
- China's coal production doubled from 1980 to 2000
- China burns half of the worlds coal but it is declining as the country tries to hit carbon reduction targets
- Coal production and use is still increasing in India as it rushes to develop
- Europe coal production and use is declining as the countries move towards cleaner, renewable and more sustainable sources of energy such as nuclear and especially renewable such as wind
- Top exporters of coal are now Indonesia and Australia
- Top importers are China, India, Japan and South Korea (the last two are developed countries with very few of their own energy sources)
- The EU is the next highest importer but it is declining as countries move away from coal fired power stations to nuclear and wind.



CRUDE OIL: PRODUCTIONAND TRADE



Changing oil trade patterns





A new global crude trade map



- North American crude import requirements plummet as regional supply rises
- -Rising Middle East demand curtails export availability
- -'East of Suez' accounts for an ever growing share of global crude trade
- USA is declining as an importer of oil as local supplies increase
- OPEC countries, especially those in the Middle East and Saudi Arabia in particular still dominate exports and are able to control oil prices which are very low at the moment
- Asia, the Pacific rim and China in particular are importing more oil as the country continues to develop and industrialise
- Japan continues to be a substantial importer having few of its own sources
- Russia is a growing exporter of oil particularly to the rest of Easter Europe and to Western Europe
- Venezuela is still a big exporter of oil to both North America and the far east
- Africa, particularly Nigeria is a growing exporter of oil