

# Conventional Sources of Energy



## **Learning objectives:**

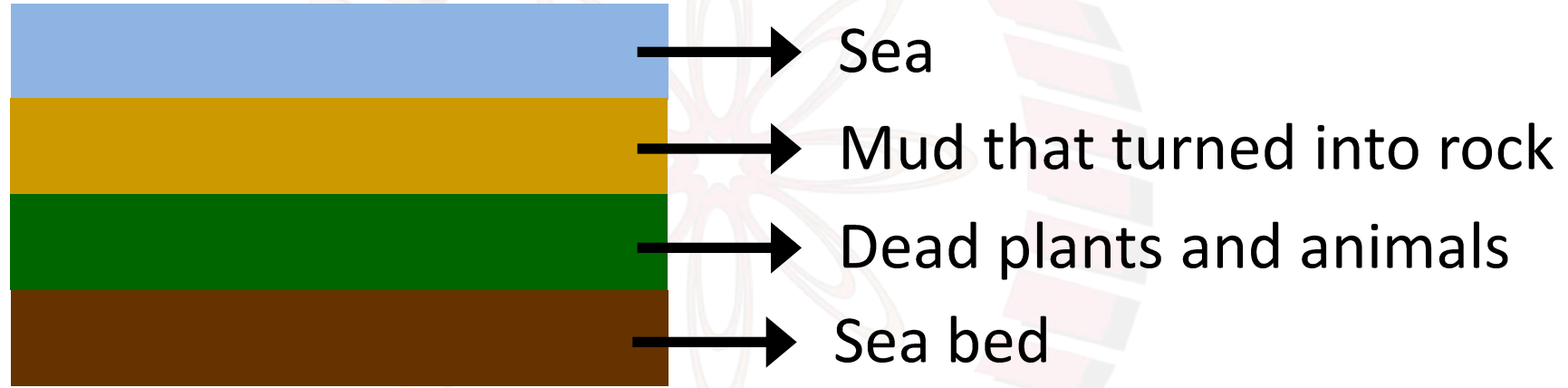
- 1) To become familiar with the prevalence of conventional sources of energy
- 2) To become familiar with aspects associated with the use of conventional sources of energy

- 4.5 Billion years: Age of Earth
- 3.8 Billion years ago life appears on Earth
- 500 Million year ago: Plants and Animals begin to appear
- 200 Million years ago: Mammals
- 60 Million years ago: Dinosaurs go extinct
- 200,000 years ago Homo Sapeins
- 347 CE China, earliest known oil wells
- 1859 First Modern Oil Well (Drake Oil Well, United States)
- 2017: Global oil production nearly 100 million barrels a day (159 l/barrel)



Crude oil: 50 - 100 US \$ per Barrel

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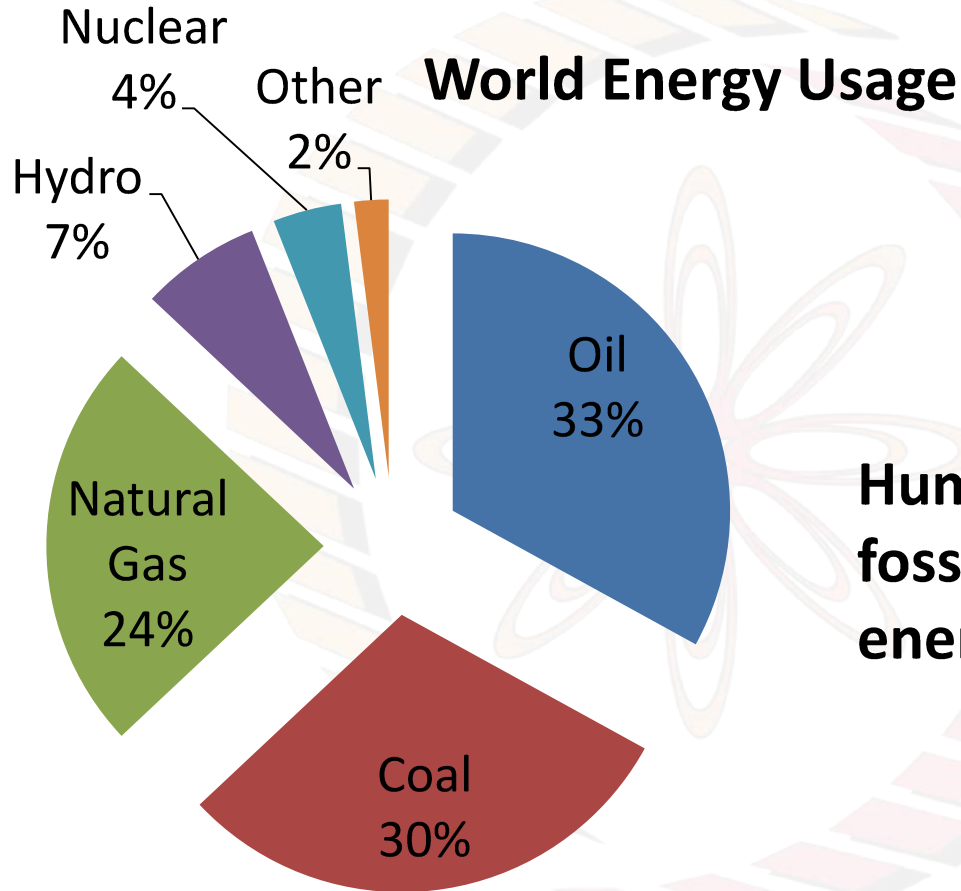


Heat, Pressure, absence of Oxygen, Millions of years



# Impact on environment?

*Changing composition significantly in 100 years!*



**Humanity depends on fossil fuels for 87% of our energy needs.**

Source of data: [https://en.wikipedia.org/wiki/World\\_energy\\_consumption](https://en.wikipedia.org/wiki/World_energy_consumption)



**GDP and Energy Consumption  
seem to be closely linked!**

***Important to find cleaner sources  
of energy to save ourselves!***