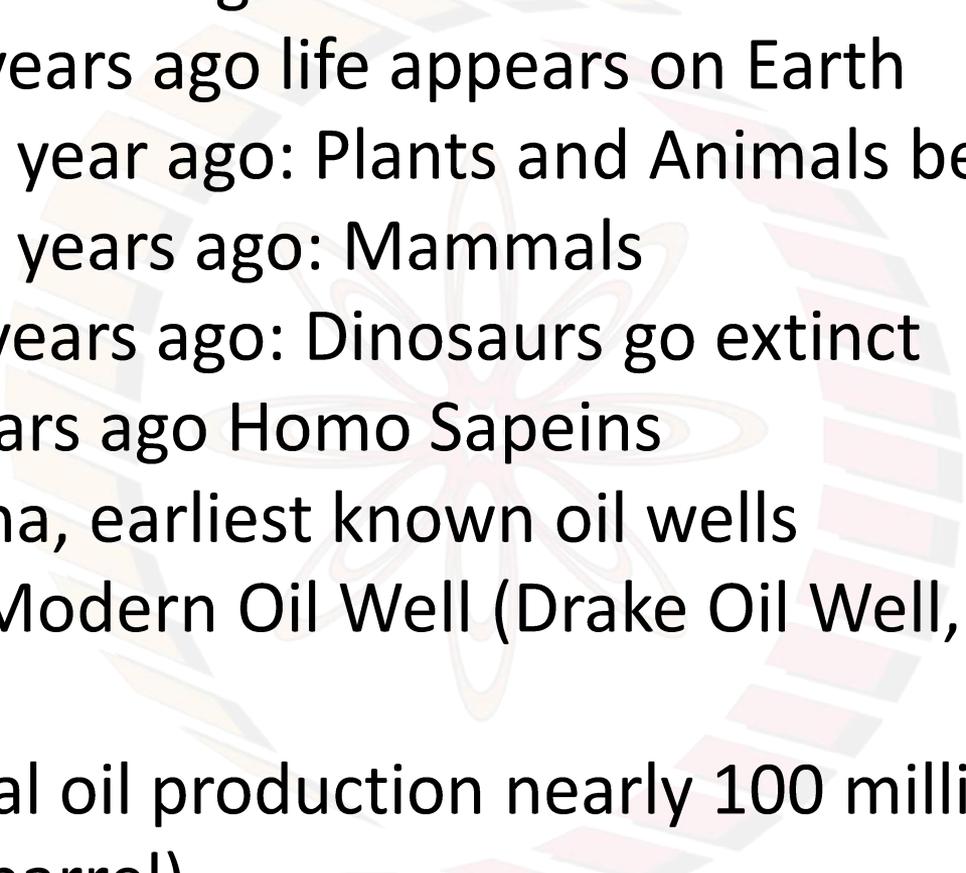




Conventional Sources of Energy

Learning objectives:

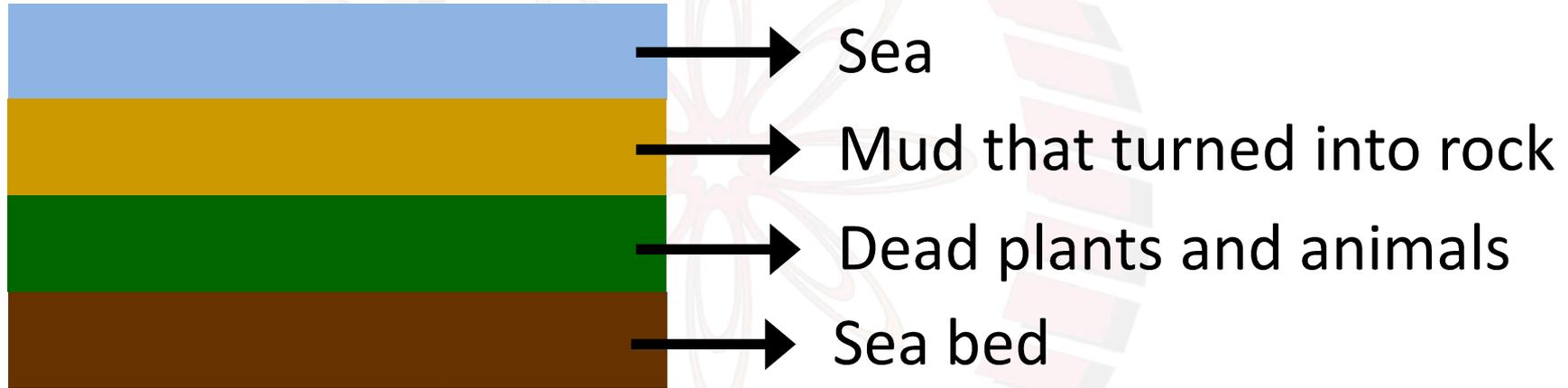
- 1) To become familiar with the prevalence of conventional sources of energy
- 2) To become familiar with aspects associated with the use of conventional sources of energy

- 
- 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)

A decorative circular graphic is centered on the page. It features a central floral motif with eight petals, rendered in a light, semi-transparent style. Surrounding this is a ring composed of numerous small, overlapping rectangular segments. The segments on the left side are colored in shades of yellow and orange, while the segments on the right side are colored in shades of pink and red. The overall appearance is that of a stylized, modern emblem or logo.

Crude oil: 50 - 100 US \$ per Barrel

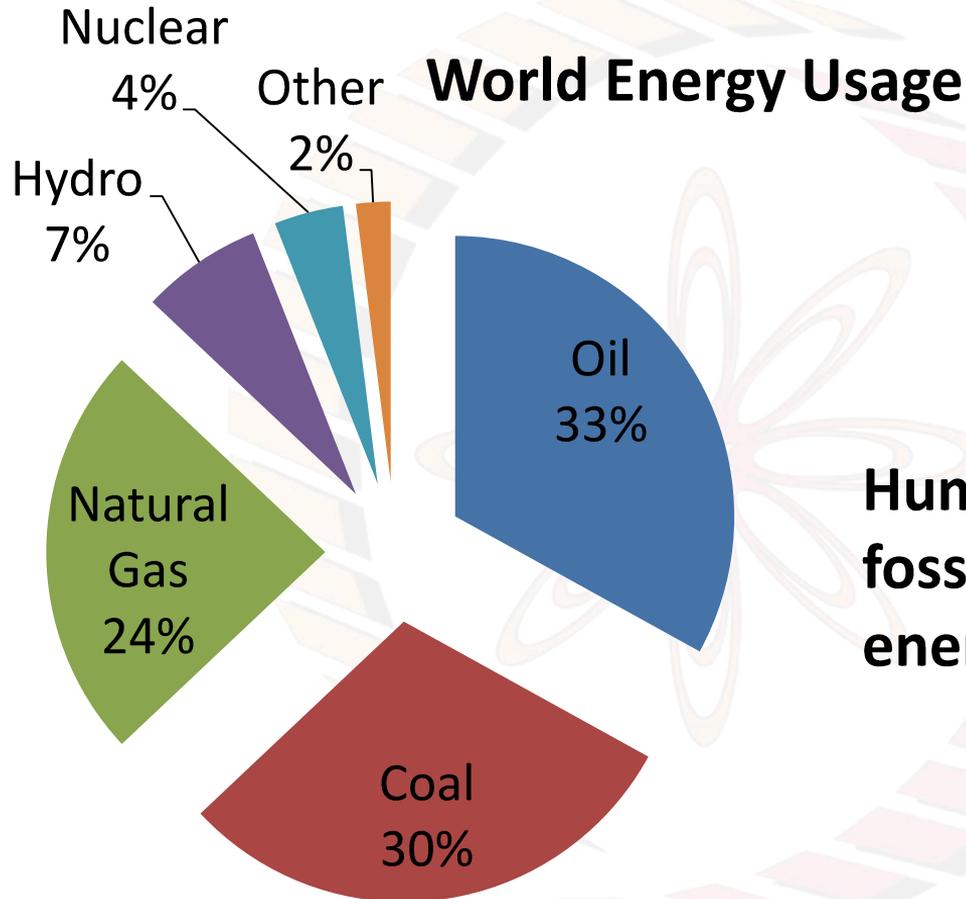
Crude oil: 50 -100 US \$ per Barrel



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



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

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