

Types of natural sources

Renewable Resources

Resources that are naturally replenished on a human timescale

Few seconds to few hours

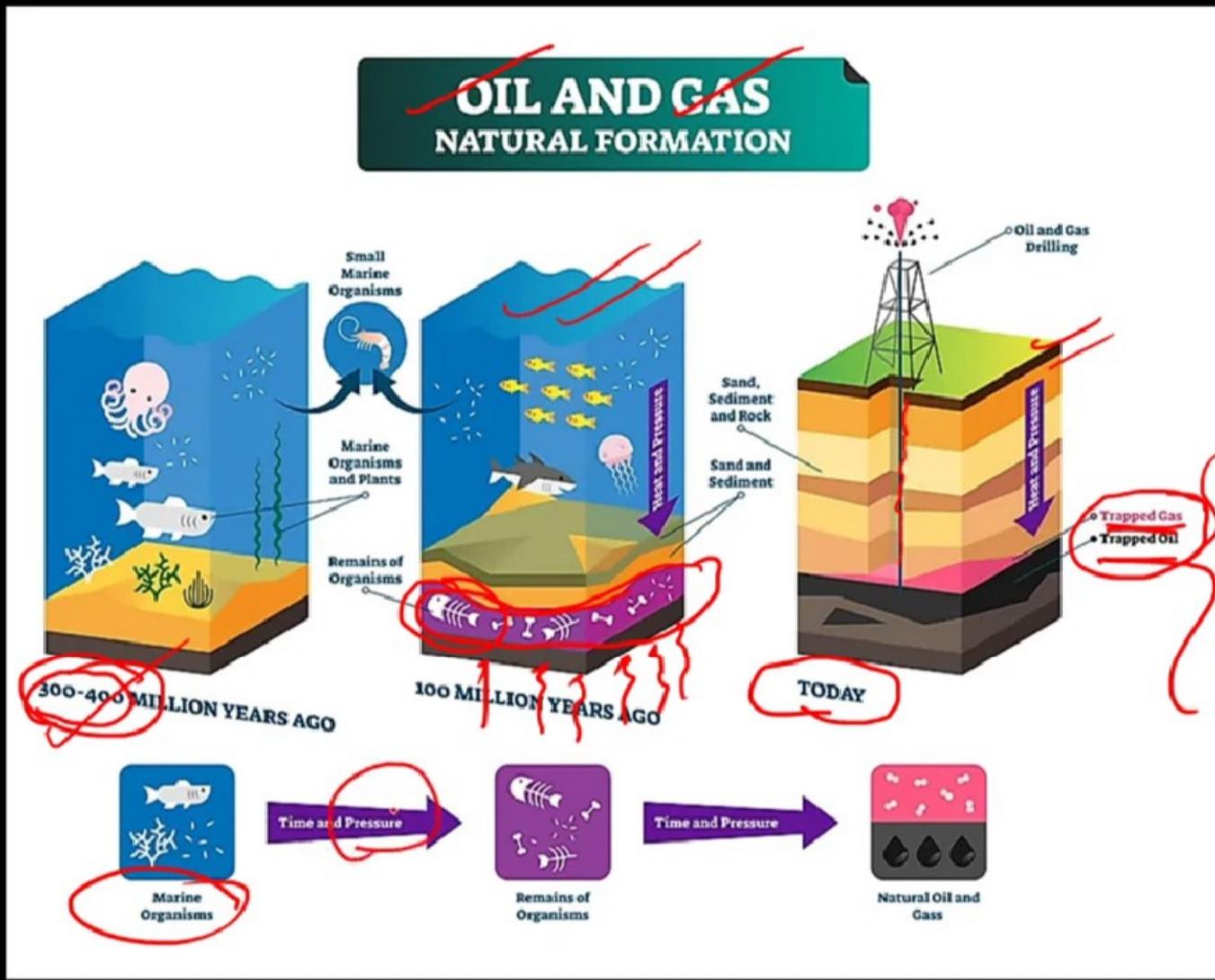
$$\text{prod. rate} \geq \text{consump. rate}$$

Non-renewable Resources

Resources that cannot be readily replaced by natural means at a pace quick enough to keep up with consumption.

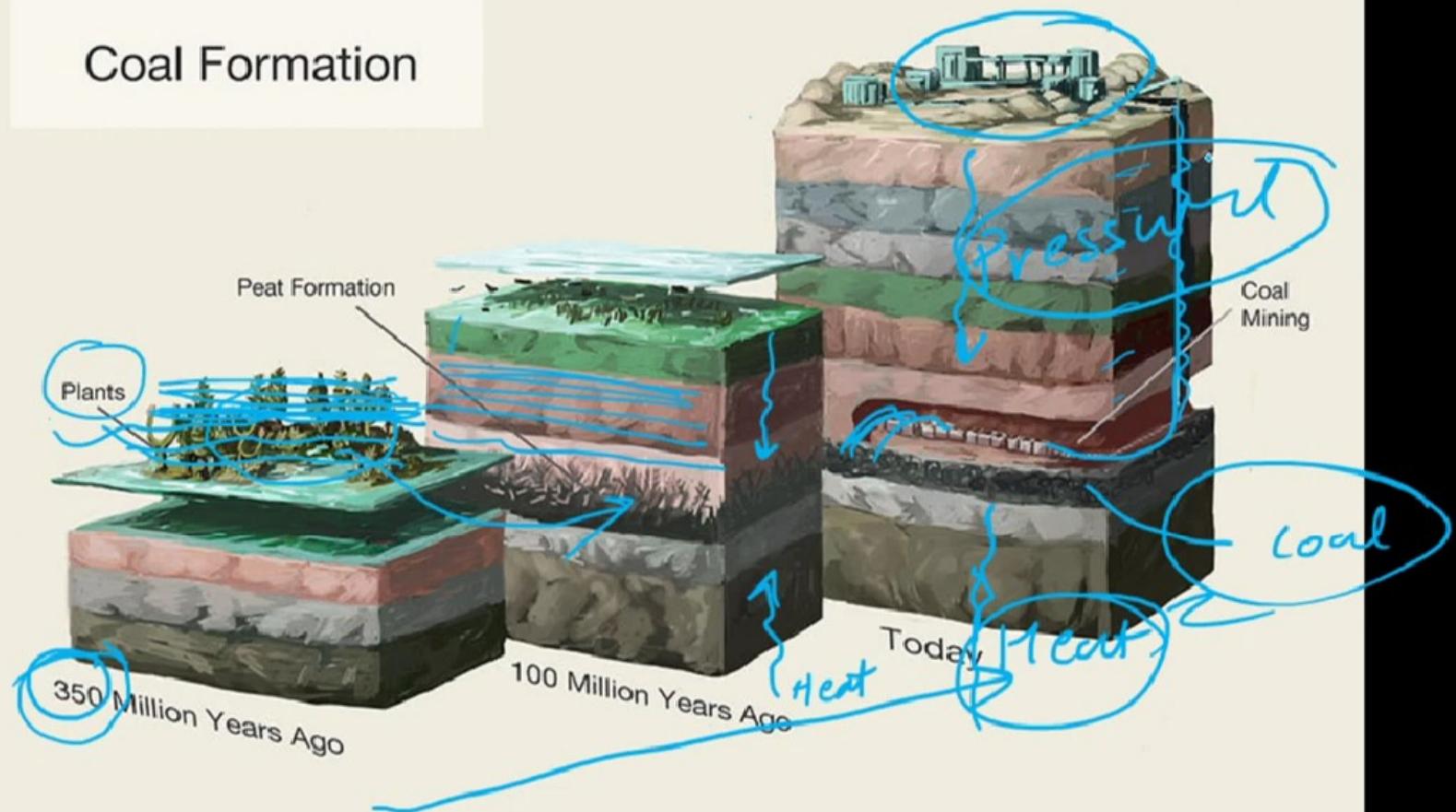
millions of years

$$\text{Prod.} \ll \text{cons. rate.}$$



oil/gas local
Recapie of
Non-Ren.
Res. format
1. Pressure
2. Heat
3. Find
4. skeleton

Coal Formation



Current Scenario



Hydro and wind, are expected to be capable of supplying humanity energy for almost another 1 billion years



We will run out of fossil fuels in this century.
Oil can last up to 50 years,
natural gas up to 53 years,
and coal up to 114 years