

# Types of natural sources

Renewable Resources

Resources that are naturally replenished on a human timescale

Few seconds to few hours

prod. rate  $\geq$  consump. rate

Non-renewable Resources

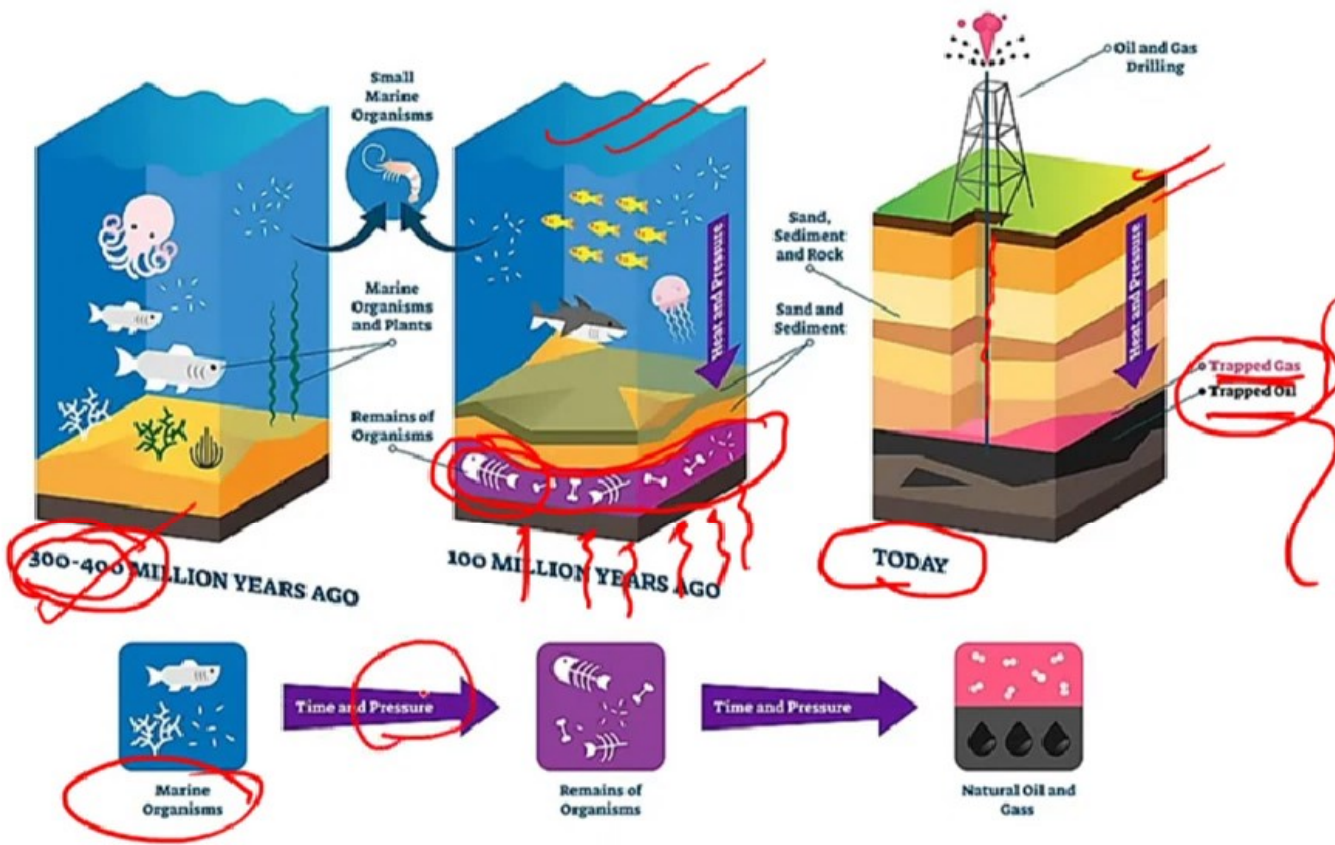
Resources that cannot be readily replaced by natural means at a pace quick enough to keep up with consumption.

millions of years

Prod. rate  $\ll$  cons. rate.



# OIL AND GAS NATURAL FORMATION



oil / gas  
local

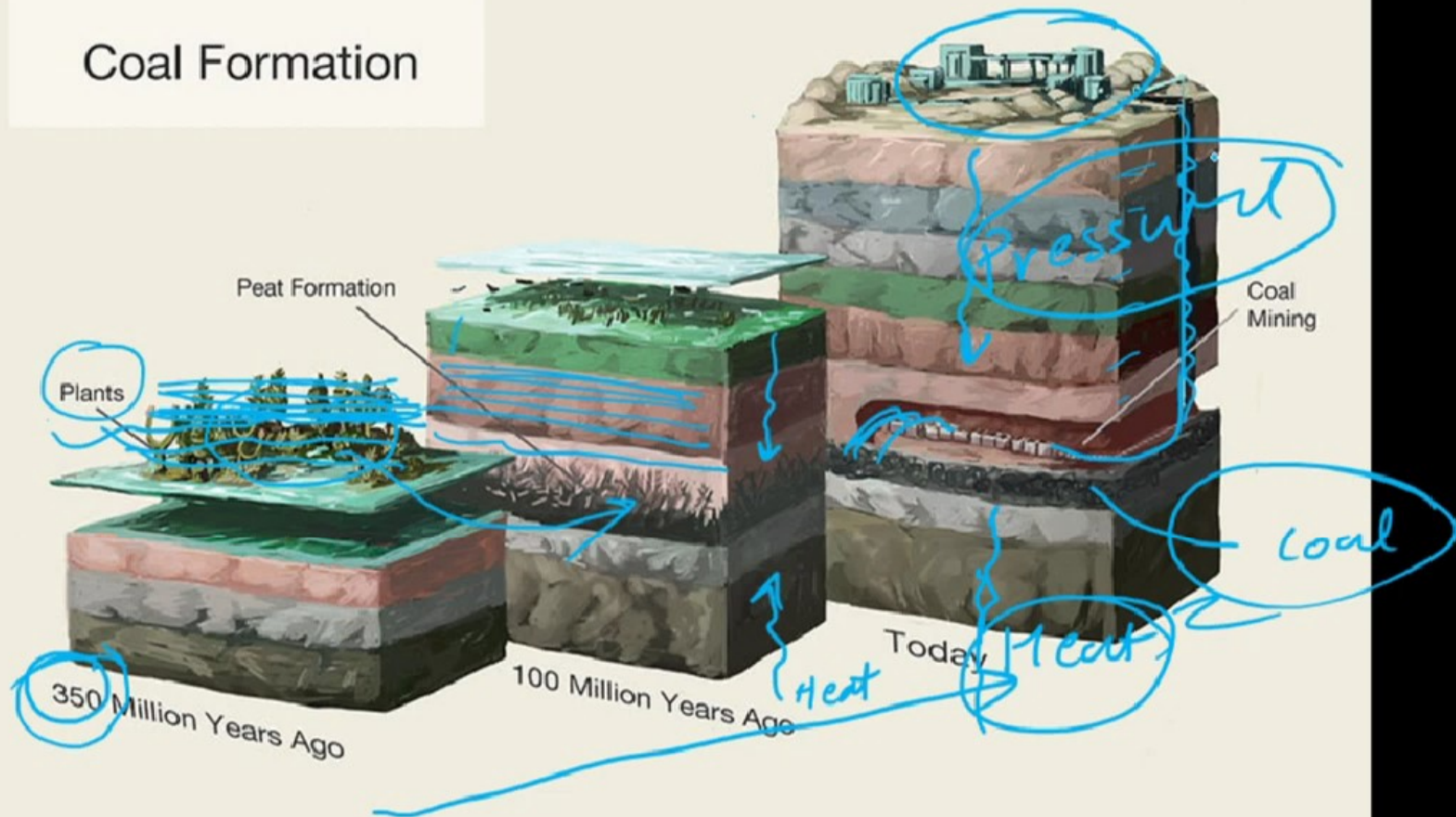
Recipie of  
non-Ren.  
Res. format

1. Pressure  
2. Heat  
3. Time

4. Skeleton

1.

## Coal Formation





## Current Scenario

Renewable  
resources

Non-renewable  
resources

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